

2011 Index

IEEE Transactions on Pattern Analysis and Machine Intelligence

Vol. 33

This index covers all technical items — papers, correspondence, reviews, etc. — that appeared in this periodical during 2011, and items from previous years that were commented upon or corrected in 2011. Departments and other items may also be covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author's name. The primary entry includes the coauthors' names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, month, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the first author's name, the publication abbreviation, month, and year, and inclusive pages. Note that the item title is found only under the primary entry in the Author Index.

AUTHOR INDEX

A

- Aarabi, Parham**, *see* Karpenko, Alexandre, *TPAMI March 2011 618-630*
- Ablavsky, Vitaly**, *see* Yuan, Quan, *TPAMI March 2011 514-530*
- Ablavsky, Vitaly**, and Sclaroff, Stan, Layered Graphical Models for Tracking Partially Occluded Objects; *TPAMI Sept. 2011 1758-1775*
- Abramoff, Michael D.**, *see* Tang, Li, *TPAMI Nov. 2011 2245-2258*
- Akhter, Ijaz**, Sheikh, Yaser, Khan, Sohaib, and Kanade, Takeo, Trajectory Space: A Dual Representation for Nonrigid Structure from Motion; *TPAMI July 2011 1442-1456*
- Al-Hajj Mohamad, Rami**, *see* Bianne-Bernard, Anne-Laure, *TPAMI Oct. 2011 2066-2080*
- Alward, Wallace L.W.**, *see* Tang, Li, *TPAMI Nov. 2011 2245-2258*
- Anderson, Robert Finis**, *see* Schweitzer, Haim, *TPAMI March 2011 459-470*
- Arabadjis, Dimitris**, Rousopoulos, Panayiotis, Papaodysseus, Constantin, Exarhos, Michalis, Panagopoulos, Michail, and Papazoglou-Manioudaki, Lena, Optimization in Differentiable Manifolds in Order to Determine the Method of Construction of Prehistoric Wall Paintings; *TPAMI Nov. 2011 2229-2244*
- Arbel, Eli**, and Hel-Or, Hagit, Shadow Removal Using Intensity Surfaces and Texture Anchor Points; *TPAMI June 2011 1202-1216*
- Arbelaez, Pablo**, Maire, Michael, Fowlkes, Charless, and Malik, Jitendra, Contour Detection and Hierarchical Image Segmentation; *TPAMI May 2011 898-916*
- Arcelli, Carlo**, Sanniti di Baja, Gabriella, and Serino, Luca, Distance-Driven Skeletonization in Voxel Images; *TPAMI April 2011 709-720*
- Atallah, Mikhail J.**, *see* Yuan, Hao, *TPAMI Dec. 2011 2544-2548*
- Audibert, Jean-Yves**, *see* Sahbi, Hichem, *TPAMI April 2011 699-708*

B

- Ba, Sileye O.**, and Odobez, Jean-Marc, Multiperson Visual Focus of Attention from Head Pose and Meeting Contextual Cues; *TPAMI Jan. 2011 101-116*
- Babenko, Boris**, Yang, Ming-Hsuan, and Belongie, Serge, Robust Object Tracking with Online Multiple Instance Learning; *TPAMI Aug. 2011 1619-1632*
- Bach, Francis**, *see* Duchenne, Olivier, *TPAMI Dec. 2011 2383-2395*
- Bai, Hongjie**, *see* Chen, Wen-Yen, *TPAMI March 2011 568-586*
- Bai, Jiamin**, *see* Chandraker, Manmohan, *TPAMI Oct. 2011 2122-2128*
- Baker, Simon**, *see* Ramanan, Deva, *TPAMI April 2011 794-806*
- Baldrich, Ramon**, *see* Vazquez, Eduard, *TPAMI May 2011 917-930*
- Banerjee, Arunava**, *see* Kumar, Ritwik, *TPAMI March 2011 533-567*
- Banerjee, Subhashis**, *see* Mudenagudi, Uma, *TPAMI May 2011 995-1008*
- Bao, Hujun**, *see* He, Xiaofei, *TPAMI Oct. 2011 2013-2025*
- Bao, Hujun**, *see* Zhang, Guofeng, *TPAMI March 2011 603-617*
- Barampoutis, Angelos**, *see* Kumar, Ritwik, *TPAMI March 2011 533-567*
- Bart, Evgeniy**, Welling, Max, and Perona, Pietro, Unsupervised Organization of Image Collections: Taxonomies and Beyond; *TPAMI Nov. 2011 2302-2315*
- Basri, Ronen**, *see* Kemelmacher-Shlizerman, Ira, *TPAMI Feb. 2011 394-405*

- Basri, Ronen**, Hassner, Tal, and Zelnik-Manor, Lih, Approximate Nearest Subspace Search; *TPAMI Feb. 2011 266-278*
- Baumela, Luis**, *see* Bekios-Calfa, Juan, *TPAMI April 2011 858-864*
- Bekios-Calfa, Juan**, Buenaposada, Jose M., and Baumela, Luis, Revisiting Linear Discriminant Techniques in Gender Recognition; *TPAMI April 2011 858-864*
- Belhumeur, Peter N.**, *see* Kumar, Neeraj, *TPAMI Oct. 2011 1962-1977*
- Belongie, Serge**, *see* Babenko, Boris, *TPAMI Aug. 2011 1619-1632*
- Ben-Ezra, Moshe**, Lin, Zhouchen, Wilburn, Bennett, and Zhang, Wei, Penrose Pixels for Super-Resolution; *TPAMI July 2011 1370-1383*
- Ben-Zwi, Oren**, *see* Kleiner, Igor, *TPAMI Feb. 2011 256-265*
- Berclaz, Jerome**, Fleuret, Francois, Turetken, Engin, and Fua, Pascal, Multiple Object Tracking Using K-Shortest Paths Optimization; *TPAMI Sept. 2011 1806-1819*
- Berg, Alexander**, *see* Kumar, Neeraj, *TPAMI Oct. 2011 1962-1977*
- Bertalmio, Marcelo**, *see* Ferradans, Sira, *TPAMI Oct. 2011 2002-2012*
- Bian, Wei**, and Tao, Dacheng, Max-Min Distance Analysis by Using Sequential SDP Relaxation for Dimension Reduction; *TPAMI May 2011 1037-1050*
- Bianne-Bernard, Anne-Laure**, Menasri, Fares, Al-Hajj Mohamad, Rami, Mokbel, Chafic, Kermorvant, Christopher, and Likforman-Sulem, Laurence, Dynamic and Contextual Information in HMM Modeling for Handwritten Word Recognition; *TPAMI Oct. 2011 2066-2080*
- Bilgic, Mustafa**, *see* Chen, Daozheng, *TPAMI Nov. 2011 2174-2187*
- Boongoen, Tossapon**, *see* Iam-On, Natthakan, *TPAMI Dec. 2011 2396-2409*
- Bottou, Leon**, *see* Ertekin, Seyda, *TPAMI Feb. 2011 368-381*
- Boult, Terrance E.**, *see* Scheirer, Walter J., *TPAMI Aug. 2011 1689-1695*
- Bowden, Richard**, *see* Ong, Eng-Jon, *TPAMI Sept. 2011 1844-1859*
- Bowden, Richard**, *see* Gilbert, Andrew, *TPAMI May 2011 883-897*
- Bowyer, Kevin W.**, *see* Hollingsworth, Karen P., *TPAMI Dec. 2011 2465-2476*
- Boyer, Edmond**, *see* Lee, Wonwoo, *TPAMI July 2011 1429-1441*
- Boyer, Edmond**, *see* Zaharescu, Andrei, *TPAMI April 2011 823-837*
- Brady, Sir Michael**, *see* Joshi, Niranjana, *TPAMI Aug. 2011 1673-1680*
- Breitenstein, Michael D.**, Reichlin, Fabian, Leibe, Bastian, Koller-Meier, Esther, and Van Gool, Luc, Online Multiperson Tracking-by-Detection from a Single, Uncalibrated Camera; *TPAMI Sept. 2011 1820-1833*
- Breuel, Thomas M.**, *see* Shafait, Faisal, *TPAMI April 2011 846-851*
- Bronstein, Alex**, *see* Kimmel, Ron, *TPAMI Nov. 2011 2316-2320*
- Bronstein, Alexander M.**, *see* Bronstein, Michael M., *TPAMI May 2011 1065-1071*
- Bronstein, Michael**, *see* Kimmel, Ron, *TPAMI Nov. 2011 2316-2320*
- Bronstein, Michael M.**, and Bronstein, Alexander M., Shape Recognition with Spectral Distances; *TPAMI May 2011 1065-1071*
- Brostow, Gabriel J.**, Hernandez, Carlos, Vogiatzis, George, Stenger, Bjorn, and Cipolla, Roberto, Video Normals from Colored Lights; *TPAMI Oct. 2011 2104-2114*
- Brown, Matthew**, Hua, Gang, and Winder, Simon, Discriminative Learning of Local Image Descriptors; *TPAMI Jan. 2011 43-57*
- Brown, Michael S.**, *see* Lin, Hai Ting, *TPAMI Nov. 2011 2329-2336*
- Brown, Michael S.**, *see* Tai, Yu-Wing, *TPAMI Aug. 2011 1603-1618*
- Brox, Thomas**, and Malik, Jitendra, Large Displacement Optical Flow: Descriptor Matching in Variational Motion Estimation; *TPAMI March 2011 500-513*
- Bruyninckx, Herman**, *see* De Laet, Tinne, *TPAMI Dec. 2011 2477-2491*
- Bu, Jiajun**, *see* Zhang, Lijun, *TPAMI Oct. 2011 2026-2038*
- Buenaposada, Jose M.**, *see* Bekios-Calfa, Juan, *TPAMI April 2011 858-864*
- Bugeau, Aurelie**, *see* Papadakis, Nicolas, *TPAMI Jan. 2011 144-157*
- Bulling, Andreas**, Ward, Jamie A., Gellersen, Hans, and Troster, Gerhard, Eye Movement Analysis for Activity Recognition Using Electrooculography; *TPAMI April 2011 741-753*
- Burgeth, Bernhard**, *see* Moreno, Rodrigo, *TPAMI Nov. 2011 2215-2228*

C

- Cai, Deng**, He, Xiaofei, Han, Jiawei, and Huang, Thomas S., Graph Regularized Nonnegative Matrix Factorization for Data Representation; *TPAMI Aug. 2011 1548-1560*

- Cai, Deng**, *see* Zhang, Lijun, *TPAMI Oct. 2011 2026-2038*
- Cai, Hongping**, Mikolajczyk, Krystian, and Matas, Jiri, Learning Linear Discriminant Projections for Dimensionality Reduction of Image Descriptors; *TPAMI Feb. 2011 338-352*
- Cao, Xun**, Du, Hao, Tong, Xin, Dai, Qionghai, and Lin, Stephen, A Prism-Mask System for Multispectral Video Acquisition; *TPAMI Dec. 2011 2423-2435*
- Cappelli, Raffaele**, Ferrara, Matteo, and Maltoni, Davide, Fingerprint Indexing Based on Minutia Cylinder-Code; *TPAMI May 2011 1051-1057*
- Caselles, Vincent**, *see* Ferradans, Sira, *TPAMI Oct. 2011 2002-2012*
- Castellani, Umberto**, Cristani, Marco, and Murino, Vittorio, Statistical 3D Shape Analysis by Local Generative Descriptors; *TPAMI Dec. 2011 2555-2560*
- Castro-Bleda, M.J.**, *see* Espana-Boquera, S., *TPAMI April 2011 767-779*
- Cecotti, Hubert**, and Graser, Axel, Convolutional Neural Networks for P300 Detection with Application to Brain-Computer Interfaces; *TPAMI March 2011 433-445*
- Chandraker, Manmohan**, Bai, Jiamin, Ng, Tian-Tsong, and Ramamoorthi, Ravi, On the Duality of Forward and Inverse Light Transport; *TPAMI Oct. 2011 2122-2128*
- Chang, Edward Y.**, *see* Chen, Wen-Yen, *TPAMI March 2011 568-586*
- Chellappa, Rama**, *see* Turaga, Pavan, *TPAMI Nov. 2011 2273-2286*
- Chellappa, Rama**, *see* Pillai, Jaishanker K., *TPAMI Sept. 2011 1877-1893*
- Chellappa, Rama**, *see* Ramachandran, Mahesh, *TPAMI Jan. 2011 186-193*
- Chen, Chun**, *see* Zhang, Lijun, *TPAMI Oct. 2011 2026-2038*
- Chen, Daozheng**, Bilgic, Mustafa, Getoor, Lise, and Jacobs, David, Dynamic Processing Allocation in Video; *TPAMI Nov. 2011 2174-2187*
- Chen, Jie**, *see* Wang, Ruiping, *TPAMI Sept. 2011 1776-1792*
- Chen, Ke**, and Wang, Shihai, Semi-Supervised Learning via Regularized Boosting Working on Multiple Semi-Supervised Assumptions; *TPAMI Jan. 2011 129-143*
- Chen, Wen-Yen**, Song, Yangqiu, Bai, Hongjie, Lin, Chih-Jen, and Chang, Edward Y., Parallel Spectral Clustering in Distributed Systems; *TPAMI March 2011 568-586*
- Chen, Xilin**, *see* Wang, Ruiping, *TPAMI Sept. 2011 1776-1792*
- Chen, Yin-Nong**, Han, Chin-Chuan, Wang, Cheng-Tzu, and Fan, Kuo-Chin, Face Recognition Using Nearest Feature Space Embedding; *TPAMI June 2011 1073-1086*
- Chen, Yu**, *see* Liu, Jianzhuang, *TPAMI Jan. 2011 3-15*
- Chen, Zhanqing**, *see* Liu, Yong-Jin, *TPAMI Aug. 2011 1502-1517*
- Cheng, Jie**, *see* Cheng, Qiang, *TPAMI June 2011 1217-1233*
- Cheng, Ming-Ming**, and Zhang, Guo-Xin, Connectedness of Random Walk Segmentation; *TPAMI Jan. 2011 200-202*
- Cheng, Qiang**, Zhou, Hongbo, and Cheng, Jie, The Fisher-Markov Selector: Fast Selecting Maximally Separable Feature Subset for Multiclass Classification with Applications to High-Dimensional Data; *TPAMI June 2011 1217-1233*
- Cheung, William K.**, *see* Zhou, Ning, *TPAMI July 2011 1281-1294*
- Cheung, Yiu-ming**, *see* Zeng, Hong, *TPAMI Aug. 2011 1532-1547*
- Chi, Yu-Tseh**, *see* Shahed Nejhumi, S.M., *TPAMI July 2011 1324-1338*
- Christou, Ioannis T.**, Coordination of Cluster Ensembles via Exact Methods; *TPAMI Feb. 2011 279-293*
- Chu, Henry**, *see* Zhang, Yun, *TPAMI March 2011 446-458*
- Cipolla, Roberto**, *see* Brostow, Gabriel J., *TPAMI Oct. 2011 2104-2114*
- Cipolla, Roberto**, *see* Hernandez, Carlos, *TPAMI Feb. 2011 419-426*
- Clausi, David A.**, *see* Mishra, Akshaya K., *TPAMI Feb. 2011 310-324*
- Colot, Olivier**, *see* Tabia, Hedi, *TPAMI April 2011 852-858*
- Coupric, Camille**, Grady, Leo, Najman, Laurent, and Talbot, Hugues, Power Watershed: A Unifying Graph-Based Optimization Framework; *TPAMI July 2011 1384-1399*
- Cremers, Daniel**, *see* Sellent, Anita, *TPAMI Aug. 2011 1577-1589*
- Cremers, Daniel**, and Kolev, Kalin, Multiview Stereo and Silhouette Consistency via Convex Functionals over Convex Domains; *TPAMI June 2011 1161-1174*
- Criminisi, A.**, *see* Schroff, F., *TPAMI April 2011 754-766*
- Criminisi, Antonio**, *see* Yin, Pei, *TPAMI Jan. 2011 30-42*
- Cristani, Marco**, *see* Castellani, Umberto, *TPAMI Dec. 2011 2555-2560*

D

- Dai, Jifeng**, and Zhou, Jie, Multifeature-Based High-Resolution Palmprint Recognition; *TPAMI May 2011 945-957*
- Dai, Qionghai**, *see* Cao, Xun, *TPAMI Dec. 2011 2423-2435*
- Dambreville, Samuel**, *see* Sandhu, Romeil, *TPAMI June 2011 1098-1115*

- Daoudi, Mohamed**, *see* Tabia, Hedi, *TPAMI April 2011 852-858*
- Datta, Ankur**, Sheikh, Yaser, and Kanade, Takeo, Linearized Motion Estimation for Articulated Planes; *TPAMI April 2011 780-793*
- Davis, James E.**, *see* Zhu, Jiejie, *TPAMI July 2011 1400-1414*
- Davis, Larry S.**, *see* Kembhavi, Aniruddha, *TPAMI June 2011 1250-1265*
- de La Gorce, Martin**, Fleet, David J., and Paragios, Nikos, Model-Based 3D Hand Pose Estimation from Monocular Video; *TPAMI Sept. 2011 1793-1805*
- De Laet, Tinne**, Bruyninckx, Herman, and De Schutter, Joris, Shape-Based Online Multitarget Tracking and Detection for Targets Causing Multiple Measurements: Variational Bayesian Clustering and Lossless Data Association; *TPAMI Dec. 2011 2477-2491*
- De Schutter, Joris**, *see* De Laet, Tinne, *TPAMI Dec. 2011 2477-2491*
- Delgado-Gonzalo, Ricard**, *see* Thevenaz, Philippe, *TPAMI Feb. 2011 382-393*
- Deng, Rui**, *see* Schweitzer, Haim, *TPAMI March 2011 459-470*
- Dewaele, Guillaume**, *see* Horaud, Radu, *TPAMI March 2011 587-602*
- Dexter, Emilie**, *see* Junejo, Imran N., *TPAMI Jan. 2011 172-185*
- Di Stefano, Luigi**, *see* Lanza, Alessandro, *TPAMI Sept. 2011 1894-1910*
- Dong, Wenbo**, Sun, Zhenan, and Tan, Tieniu, Iris Matching Based on Personalized Weight Map; *TPAMI Sept. 2011 1744-1757*
- Douze, Matthijs**, *see* Jegou, Herve, *TPAMI Jan. 2011 117-128*
- Dowson, Nicholas**, and Salvado, Olivier, Hashed Nonlocal Means for Rapid Image Filtering; *TPAMI March 2011 485-499*
- Du, Hao**, *see* Cao, Xun, *TPAMI Dec. 2011 2423-2435*
- Duchenne, Olivier**, Bach, Francis, Kweon, In-So, and Ponce, Jean, A Tensor-Based Algorithm for High-Order Graph Matching; *TPAMI Dec. 2011 2383-2395*
- Durand, Fredo**, *see* Levin, Anat, *TPAMI Dec. 2011 2354-2367*

E

- Ebert, Sandra**, *see* Stikic, Maja, *TPAMI Dec. 2011 2521-2537*
- Eisemann, Martin**, *see* Sellent, Anita, *TPAMI Aug. 2011 1577-1589*
- Ertekin, Seyda**, Bottou, Leon, and Giles, C. Lee, Nonconvex Online Support Vector Machines; *TPAMI Feb. 2011 368-381*
- Espana-Boquera, S.**, Castro-Bleda, M.J., Gorge-Moya, J., and Zamora-Martinez, F., Improving Offline Handwritten Text Recognition with Hybrid HMM/ANN Models; *TPAMI April 2011 767-779*
- Essa, Irfan**, Kang, Sing Bing, and Pollefeys, Marc, Guest Editors' Introduction to the Special Section on Award-Winning Papers from the IEEE Conference on Computer Vision and Pattern Recognition 2009 (CVPR 2009); *TPAMI Dec. 2011 2339-2340*
- Essa, Irfan A.**, *see* Yin, Pei, *TPAMI Jan. 2011 30-42*
- Exarhos, Michalis**, *see* Arabadjis, Dimitris, *TPAMI Nov. 2011 2229-2244*

F

- Fan, Kuo-Chin**, *see* Chen, Yin-Nong, *TPAMI June 2011 1073-1086*
- Fang, Kuei-Li**, *see* Tsai, Yu-Ting, *TPAMI July 2011 1356-1369*
- Felzenszwalb, Pedro F.**, and Zabih, Ramin, Dynamic Programming and Graph Algorithms in Computer Vision; *TPAMI April 2011 721-740*
- Felzenszwalb, Pedro F.**, and McAuley, Julian J., Fast Inference with Min-Sum Matrix Product; *TPAMI Dec. 2011 2549-2554*
- Feng, Jianjiang**, *see* Jain, Anil K., *TPAMI Jan. 2011 88-100*
- Feng, Jianjiang**, and Jain, Anil K., Fingerprint Reconstruction: From Minutiae to Phase; *TPAMI Feb. 2011 209-223*
- Ferradans, Sira**, Bertalmio, Marcelo, Provenzi, Edoardo, and Caselles, Vincent, An Analysis of Visual Adaptation and Contrast Perception for Tone Mapping; *TPAMI Oct. 2011 2002-2012*
- Ferrara, Matteo**, *see* Cappelli, Raffaele, *TPAMI May 2011 1051-1057*
- Fidalgo-Merino, Raul**, and Nunez, Marlon, Self-Adaptive Induction of Regression Trees; *TPAMI Aug. 2011 1659-1672*
- Fieguth, Paul W.**, *see* Mishra, Akshaya K., *TPAMI Feb. 2011 310-324*
- Fleet, David J.**, *see* de La Gorce, Martin, *TPAMI Sept. 2011 1793-1805*
- Fleuret, Francois**, *see* Berclaz, Jerome, *TPAMI Sept. 2011 1806-1819*
- Flynn, Patrick J.**, *see* Hollingsworth, Karen P., *TPAMI Dec. 2011 2465-2476*
- Forbes, Florence**, *see* Horaud, Radu, *TPAMI March 2011 587-602*
- Fowlkes, Charless**, *see* Arbelaez, Pablo, *TPAMI May 2011 898-916*
- Frangi, A F.**, *see* Pozo, J. M., *TPAMI March 2011 471-484*
- Freeman, William T.**, *see* Levin, Anat, *TPAMI Dec. 2011 2354-2367*
- Fu, Zhouyu**, Robles-Kelly, Antonio, and Zhou, Jun, MILIS: Multiple Instance Learning with Instance Selection; *TPAMI May 2011 958-977*
- Fua, Pascal**, *see* Salzmann, Mathieu, *TPAMI May 2011 931-944*

Fua, Pascal, *see* Berclaz, Jerome, *TPAMI Sept. 2011 1806-1819*
Fuh, Chiou-Shann, *see* Lin, Yen-Yu, *TPAMI June 2011 1147-1160*

G

Gall, Juergen, Yao, Angela, Razavi, Nima, Van Gool, Luc, and Lempitsky, Victor, Hough Forests for Object Detection, Tracking, and Action Recognition; *TPAMI Nov. 2011 2188-2202*
Gallo, Orazio, and Manduchi, Roberto, Reading 1D Barcodes with Mobile Phones Using Deformable Templates; *TPAMI Sept. 2011 1834-1843*
Gao, Wen, *see* Wang, Ruiping, *TPAMI Sept. 2011 1776-1792*
Garcia, Miguel Angel, *see* Moreno, Rodrigo, *TPAMI Nov. 2011 2215-2228*
Garrett, Simon, *see* Lam-On, Natthakan, *TPAMI Dec. 2011 2396-2409*
Garvin, Mona K., *see* Tang, Li, *TPAMI Nov. 2011 2245-2258*
Gellersen, Hans, *see* Bulling, Andreas, *TPAMI April 2011 741-753*
Getoor, Lise, *see* Chen, Daozheng, *TPAMI Nov. 2011 2174-2187*
Gevers, Theo, *see* Gijssenij, Arjan, *TPAMI April 2011 687-698*
Ghahramani, Zoubin, *see* Zabih, Ramin, *TPAMI May 2011 865-866*
Ghahramani, Zoubin, *see* Zabih, Ramin, *TPAMI Jan. 2011 1-2*
Ghahramani, Zoubin, *see* Zabih, Ramin, *TPAMI Sept. 2011 1697-1698*
Gijssenij, Arjan, and Gevers, Theo, Color Constancy Using Natural Image Statistics and Scene Semantics; *TPAMI April 2011 687-698*
Gilbert, Andrew, Illingworth, John, and Bowden, Richard, Action Recognition Using Mined Hierarchical Compound Features; *TPAMI May 2011 883-897*
Giles, C. Lee, *see* Ertekin, Seyda, *TPAMI Feb. 2011 368-381*
Goldlucke, Bastian, *see* Sellent, Anita, *TPAMI Aug. 2011 1577-1589*
Gong, Shaogang, *see* Hospedales, Timothy M., *TPAMI Dec. 2011 2451-2464*
Gong, Yihong, *see* Huang, Yuchi, *TPAMI June 2011 1266-1273*
Gorbe-Moya, J., *see* Espana-Boquera, S., *TPAMI April 2011 767-779*
Gotardo, Paulo F.U., and Martinez, Aleix M., Computing Smooth Time Trajectories for Camera and Deformable Shape in Structure from Motion with Occlusion; *TPAMI Oct. 2011 2051-2065*
Grady, Leo, *see* Couprie, Camille, *TPAMI July 2011 1384-1399*
Graser, Axel, *see* Cecotti, Hubert, *TPAMI March 2011 433-445*
Gu, Leon, *see* Li, Yan, *TPAMI Sept. 2011 1860-1876*

H

Hadid, Abdenour, *see* Nishiyama, Masashi, *TPAMI April 2011 838-845*
Hamsici, Onur C., *see* You, Di, *TPAMI March 2011 631-638*
Han, Chin-Chuan, *see* Chen, Yin-Nong, *TPAMI June 2011 1073-1086*
Han, Jiawei, *see* Cai, Deng, *TPAMI Aug. 2011 1548-1560*
Harmeling, Stefan, and Williams, Christopher K. I., Greedy Learning of Binary Latent Trees; *TPAMI June 2011 1087-1097*
Harwood, David, *see* Kembhavi, Aniruddha, *TPAMI June 2011 1250-1265*
Hasinoff, Samuel W., and Kutulakos, Kiriakos N., Light-Efficient Photography; *TPAMI Nov. 2011 2203-2214*
Hassner, Tal, *see* Basri, Ronen, *TPAMI Feb. 2011 266-278*
Hassner, Tal, *see* Wolf, Lior, *TPAMI Oct. 2011 1978-1990*
He, Kaiming, Sun, Jian, and Tang, Xiaoou, Single Image Haze Removal Using Dark Channel Prior; *TPAMI Dec. 2011 2341-2353*
He, Ran, Zheng, Wei-Shi, and Hu, Bao-Gang, Maximum Correntropy Criterion for Robust Face Recognition; *TPAMI Aug. 2011 1561-1576*
He, Xiaofei, Ji, Ming, Zhang, Chiyuan, and Bao, Hujun, A Variance Minimization Criterion to Feature Selection Using Laplacian Regularization; *TPAMI Oct. 2011 2013-2025*
He, Xiaofei, *see* Cai, Deng, *TPAMI Aug. 2011 1548-1560*
He, Xiaofei, *see* Zhang, Lijun, *TPAMI Oct. 2011 2026-2038*
Hel-Or, Hagit, *see* Arbel, Eli, *TPAMI June 2011 1202-1216*
Heo, Jingu, *see* Prabhu, Utsav, *TPAMI Oct. 2011 1952-1961*
Heo, Yong Seok, Lee, Kyong Mu, and Lee, Sang Uk, Robust Stereo Matching Using Adaptive Normalized Cross-Correlation; *TPAMI April 2011 807-822*
Hernandez, Carlos, *see* Brostow, Gabriel J., *TPAMI Oct. 2011 2104-2114*
Hernandez, Carlos, Vogiatzis, George, and Cipolla, Roberto, Overcoming Shadows in 3-Source Photometric Stereo; *TPAMI Feb. 2011 419-426*
Ho, Jeffrey, *see* Shahed Nejhum, S.M., *TPAMI July 2011 1324-1338*
Hollingsworth, Karen P., Bowyer, Kevin W., and Flynn, Patrick J., Improved Iris Recognition through Fusion of Hamming Distance and Fragile Bit Distance; *TPAMI Dec. 2011 2465-2476*
Horaud, Radu, Forbes, Florence, Yguel, Manuel, Dewaele, Guillaume, and Zhang, Jian, Rigid and Articulated Point Registration with Expectation Conditional Maximization; *TPAMI March 2011 587-602*

Horaud, Radu, *see* Zaharescu, Andrei, *TPAMI April 2011 823-837*
Horn, Berthold K.P., *see* Jagannathan, Srinivasan, *TPAMI June 2011 1132-1146*
Hospedales, Timothy M., Li, Jian, Gong, Shaogang, and Xiang, Tao, Identifying Rare and Subtle Behaviors: A Weakly Supervised Joint Topic Model; *TPAMI Dec. 2011 2451-2464*
Hoyle, David C., Accuracy of Pseudo-Inverse Covariance Learning—A Random Matrix Theory Analysis; *TPAMI July 2011 1470-1481*
Hu, Bao-Gang, *see* He, Ran, *TPAMI Aug. 2011 1561-1576*
Hu, Jiankun, *see* Wang, Yi, *TPAMI Jan. 2011 72-87*
Hua, Gang, *see* Brown, Matthew, *TPAMI Jan. 2011 43-57*
Hua, Gang, Yang, Ming-Hsuan, Learned-Miller, Erik, Ma, Yi, Turk, Matthew, Kriegman, David J., and Huang, Thomas S., Introduction to the Special Section on Real-World Face Recognition; *TPAMI Oct. 2011 1921-1924*
Hua, Wei, *see* Zhang, Guofeng, *TPAMI March 2011 603-617*
Huang, Kaiqi, *see* Zhang, Zhang, *TPAMI Feb. 2011 240-255*
Huang, Thomas S., *see* Zhang, Lijun, *TPAMI Oct. 2011 2026-2038*
Huang, Thomas S., *see* Cai, Deng, *TPAMI Aug. 2011 1548-1560*
Huang, Thomas S., *see* Hua, Gang, *TPAMI Oct. 2011 1921-1924*
Huang, Xiaolei, *see* Li, Hongsheng, *TPAMI June 2011 1116-1131*
Huang, Yuchi, Liu, Qingshan, Lv, Fengjun, Gong, Yihong, and Metaxas, Dimitris N., Unsupervised Image Categorization by Hypergraph Partition; *TPAMI June 2011 1266-1273*

I

Iam-On, Natthakan, Boongoen, Tossapon, Garrett, Simon, and Price, Chris, A Link-Based Approach to the Cluster Ensemble Problem; *TPAMI Dec. 2011 2396-2409*
Illingworth, John, *see* Gilbert, Andrew, *TPAMI May 2011 883-897*
Irlle, Albrecht, and Kauschke, Jonas, On Kleinberg's Stochastic Discrimination Procedure; *TPAMI July 2011 1482-1486*
Ishikawa, Hiroshi, Transformation of General Binary MRF Minimization to the First-Order Case; *TPAMI June 2011 1234-1249*

J

Jacobs, David, *see* Chen, Daozheng, *TPAMI Nov. 2011 2174-2187*
Jagannathan, Srinivasan, Horn, Berthold K.P., Ratilal, Purnima, and Makris, Nicholas C., Force Estimation and Prediction from Time-Varying Density Images; *TPAMI June 2011 1132-1146*
Jain, Anil K., *see* Klare, Brendan, *TPAMI March 2011 639-646*
Jain, Anil K., and Feng, Jianjiang, Latent Fingerprint Matching; *TPAMI Jan. 2011 88-100*
Jain, Anil K., *see* Feng, Jianjiang, *TPAMI Feb. 2011 209-223*
Janzing, Dominik, *see* Peters, Jonas, *TPAMI Dec. 2011 2436-2450*
Jegou, Herve, Douze, Matthijs, and Schmid, Cordelia, Product Quantization for Nearest Neighbor Search; *TPAMI Jan. 2011 117-128*
Jermyn, Ian H., *see* Srivastava, Anuj, *TPAMI July 2011 1415-1428*
Ji, Ming, *see* He, Xiaofei, *TPAMI Oct. 2011 2013-2025*
Ji, Shuiwang, *see* Sun, Liang, *TPAMI Jan. 2011 194-200*
Jia, Jiaya, *see* Zhang, Guofeng, *TPAMI March 2011 603-617*
Jian, Bing, and Vemuri, Baba C., Robust Point Set Registration Using Gaussian Mixture Models; *TPAMI Aug. 2011 1633-1645*
Jiang, Hao, Yu, Stella X., and Martin, David R., Linear Scale and Rotation Invariant Matching; *TPAMI July 2011 1339-1355*
Jiang, Hao, Human Pose Estimation Using Consistent Max Covering; *TPAMI Sept. 2011 1911-1918*
Joshi, Niranjan, Kadir, Timor, and Brady, Sir Michael, Simplified Computation for Nonparametric Windows Method of Probability Density Function Estimation; *TPAMI Aug. 2011 1673-1680*
Joshi, Shantanu H., *see* Srivastava, Anuj, *TPAMI July 2011 1415-1428*
Junejo, Imran N., Dexter, Emilie, Laptev, Ivan, and Perez, Patrick, View-Independent Action Recognition from Temporal Self-Similarities; *TPAMI Jan. 2011 172-185*

K

Kadir, Timor, *see* Joshi, Niranjan, *TPAMI Aug. 2011 1673-1680*
Kakadiaris, Ioannis A., *see* Passalis, Georgios, *TPAMI Oct. 2011 1938-1951*
Kalra, Prem Kumar, *see* Mudenagudi, Uma, *TPAMI May 2011 995-1008*

- Kamgar-Parsi, Behrooz**, Lawson, Wallace, and Kamgar-Parsi, Behzad, Toward Development of a Face Recognition System for Watchlist Surveillance; *TPAMI Oct. 2011 1925-1937*
- Kamgar-Parsi, Behzad**, see Kamgar-Parsi, Behrooz, *TPAMI Oct. 2011 1925-1937*
- Kanade, Takeo**, see Akhter, Ijaz, *TPAMI July 2011 1442-1456*
- Kanade, Takeo**, see Li, Yan, *TPAMI Sept. 2011 1860-1876*
- Kanade, Takeo**, see Datta, Ankur, *TPAMI April 2011 780-793*
- Kang, Sing Bing**, see Zabih, Ramin, *TPAMI Dec. 2011 2337-2340*
- Kang, Sing Bing**, see Essa, Irfan, *TPAMI Dec. 2011 2339-2340*
- Kang, Sing Bing**, see Zabih, Ramin, *TPAMI Sept. 2011 1697-1698*
- Kang, Sing Bing**, see Zabih, Ramin, *TPAMI Nov. 2011 2129-2130*
- Kang, Sing Bing**, see Zabih, Ramin, *TPAMI May 2011 865-866*
- Karpenko, Alexandre**, and Aarabi, Parham, Tiny Videos: A Large Data Set for Nonparametric Video Retrieval and Frame Classification; *TPAMI March 2011 618-630*
- Kauschke, Jonas**, see Irle, Albrecht, *TPAMI July 2011 1482-1486*
- Ke, Qifa**, see Wu, Zhong, *TPAMI Oct. 2011 1991-2001*
- Kembhavi, Aniruddha**, Harwood, David, and Davis, Larry S., Vehicle Detection Using Partial Least Squares; *TPAMI June 2011 1250-1265*
- Kemelmacher-Shlizerman, Ira**, and Basri, Ronen, 3D Face Reconstruction from a Single Image Using a Single Reference Face Shape; *TPAMI Feb. 2011 394-405*
- Keren, Daniel**, see Kleiner, Igor, *TPAMI Feb. 2011 256-265*
- Keriven, Renaud**, see Sahbi, Hichem, *TPAMI April 2011 699-708*
- Kermorvant, Christopher**, see Bianne-Bernard, Anne-Laure, *TPAMI Oct. 2011 2066-2080*
- Khan, Sohaib**, see Akhter, Ijaz, *TPAMI July 2011 1442-1456*
- Kim, Minyoung**, and Pavlovic, Vladimir, Central Subspace Dimensionality Reduction Using Covariance Operators; *TPAMI April 2011 657-670*
- Kimmel, Ron**, Zhang, Cuiping, Bronstein, Alex, and Bronstein, Michael, Are MSER Features Really Interesting?; *TPAMI Nov. 2011 2316-2320*
- Kittler, Josef**, see Rahimzadeh Arashloo, Shervin, *TPAMI June 2011 1274-1280*
- Klare, Brendan**, Li, Zhifeng, and Jain, Anil K., Matching Forensic Sketches to Mug Shot Photos; *TPAMI March 2011 639-646*
- Klassen, Eric**, see Srivastava, Anuj, *TPAMI July 2011 1415-1428*
- Klein, Georg**, see Williams, Brian, *TPAMI Sept. 2011 1699-1712*
- Kleiner, Igor**, Keren, Daniel, Newman, Ilan, and Ben-Zwi, Oren, Applying Property Testing to an Image Partitioning Problem; *TPAMI Feb. 2011 256-265*
- Kolev, Kalin**, see Cremers, Daniel, *TPAMI June 2011 1161-1174*
- Koller-Meier, Esther**, see Breitenstein, Michael D., *TPAMI Sept. 2011 1820-1833*
- Komodakis, Nikos**, Paragios, Nikos, and Tziritis, Georgios, MRF Energy Minimization and Beyond via Dual Decomposition; *TPAMI March 2011 531-552*
- Kozakaya, Tatsuo**, see Nishiyama, Masashi, *TPAMI April 2011 838-845*
- Kriegman, David J.**, see Hua, Gang, *TPAMI Oct. 2011 1921-1924*
- Kukelova, Zuzana**, and Pajdla, Tomas, A Minimal Solution to Radial Distortion Autocalibration; *TPAMI Dec. 2011 2410-2422*
- Kumar, Neeraj**, Berg, Alexander, Belhumeur, Peter N., and Nayar, Shree, Describable Visual Attributes for Face Verification and Image Search; *TPAMI Oct. 2011 1962-1977*
- Kumar, Ritwik**, Barmpoutis, Angelos, Banerjee, Arunava, and Vemuri, Baba C., Non-Lambertian Reflectance Modeling and Shape Recovery of Faces Using Tensor Splines; *TPAMI March 2011 533-567*
- Kuthirummal, Sujit**, Nagahara, Hajime, Zhou, Changyin, and Nayar, Shree K., Flexible Depth of Field Photography; *TPAMI Jan. 2011 58-71*
- Kutulakos, Kiriakos N.**, see Morris, Nigel J. W., *TPAMI Aug. 2011 1518-1531*
- Kutulakos, Kiriakos N.**, see Hasinoff, Samuel W., *TPAMI Nov. 2011 2203-2214*
- Kweon, In-So**, see Duchenne, Olivier, *TPAMI Dec. 2011 2383-2395*
- Kwon, Young H.**, see Tang, Li, *TPAMI Nov. 2011 2245-2258*
- Learned-Miller, Erik**, see Hua, Gang, *TPAMI Oct. 2011 1921-1924*
- Lee, Jong-Ha**, and Won, Chang-Hee, Topology Preserving Relaxation Labeling for Nonrigid Point Matching; *TPAMI Feb. 2011 427-432*
- Lee, Kyong Mu**, see Heo, Yong Seok, *TPAMI April 2011 807-822*
- Lee, Kyungmoo**, see Tang, Li, *TPAMI Nov. 2011 2245-2258*
- Lee, Sang Uk**, see Heo, Yong Seok, *TPAMI April 2011 807-822*
- Lee, Wonwoo**, Woo, Woontack, and Boyer, Edmond, Silhouette Segmentation in Multiple Views; *TPAMI July 2011 1429-1441*
- Lehmann, Frederic**, Turbo Segmentation of Textured Images; *TPAMI Jan. 2011 16-29*
- Leibe, Bastian**, see Breitenstein, Michael D., *TPAMI Sept. 2011 1820-1833*
- Leijon, Arne**, see Ma, Zhanyu, *TPAMI Nov. 2011 2160-2173*
- Lempitsky, Victor**, see Gall, Juergen, *TPAMI Nov. 2011 2188-2202*
- Leotta, Matthew J.**, and Mundy, Joseph L., Vehicle Surveillance with a Generic, Adaptive, 3D Vehicle Model; *TPAMI July 2011 1457-1469*
- Lerner, Ronen**, and Rivlin, Ehud, Direct Method for Video-Based Navigation Using a Digital Terrain Map; *TPAMI Feb. 2011 406-411*
- Levin, Anat**, Weiss, Yair, Durand, Fredo, and Freeman, William T., Understanding Blind Deconvolution Algorithms; *TPAMI Dec. 2011 2354-2367*
- Li, Hongsheng**, Shen, Tian, and Huang, Xiaolei, Approximately Global Optimization for Robust Alignment of Generalized Shapes; *TPAMI June 2011 1116-1131*
- Li, Jian**, see Hospedales, Timothy M., *TPAMI Dec. 2011 2451-2464*
- Li, Yan**, Gu, Leon, and Kanade, Takeo, Robustly Aligning a Shape Model and Its Application to Car Alignment of Unknown Pose; *TPAMI Sept. 2011 1860-1876*
- Li, Yuhua**, and Maguire, Liam, Selecting Critical Patterns Based on Local Geometrical and Statistical Information; *TPAMI June 2011 1189-1201*
- Li, Zhifeng**, see Klare, Brendan, *TPAMI March 2011 639-646*
- Likforman-Sulem, Laurence**, see Bianne-Bernard, Anne-Laure, *TPAMI Oct. 2011 2066-2080*
- Lin, Chih-Jen**, see Chen, Wen-Yen, *TPAMI March 2011 568-586*
- Lin, Hai Ting**, Tai, Yu-Wing, and Brown, Michael S., Motion Regularization for Matting Motion Blurred Objects; *TPAMI Nov. 2011 2329-2336*
- Lin, Stephen**, see Cao, Xun, *TPAMI Dec. 2011 2423-2435*
- Lin, Wen-Chieh**, see Tsai, Yu-Ting, *TPAMI July 2011 1356-1369*
- Lin, Yen-Yu**, Liu, Tyng-Luh, and Fuh, Chiou-Shann, Multiple Kernel Learning for Dimensionality Reduction; *TPAMI June 2011 1147-1160*
- Lin, Zhouchen**, see Ben-Ezra, Moshe, *TPAMI July 2011 1370-1383*
- Lindenbaum, Michael**, see Sandler, Roman, *TPAMI Aug. 2011 1590-1602*
- Lindenbaum, Michael**, see Rozenfeld, Stas, *TPAMI Feb. 2011 325-337*
- Ling, Haibin**, see Mei, Xue, *TPAMI Nov. 2011 2259-2272*
- Liu, Ce**, Yuen, Jenny, and Torralba, Antonio, Nonparametric Scene Parsing via Label Transfer; *TPAMI Dec. 2011 2368-2382*
- Liu, Ce**, Yuen, Jenny, and Torralba, Antonio, SIFT Flow: Dense Correspondence across Scenes and Its Applications; *TPAMI May 2011 978-994*
- Liu, Jianzhuang**, Chen, Yu, and Tang, Xiaou, Decomposition of Complex Line Drawings with Hidden Lines for 3D Planar-Faced Manifold Object Reconstruction; *TPAMI Jan. 2011 3-15*
- Liu, Min**, see Liu, Yu-Shen, *TPAMI Dec. 2011 2538-2544*
- Liu, Qingshan**, see Huang, Yuchi, *TPAMI June 2011 1266-1273*
- Liu, Tie**, Yuan, Zejian, Sun, Jian, Wang, Jingdong, Zheng, Nanning, Tang, Xi-aou, and Shum, Heung-Yeung, Learning to Detect a Salient Object; *TPAMI Feb. 2011 353-367*
- Liu, Tyng-Luh**, see Lin, Yen-Yu, *TPAMI June 2011 1147-1160*
- Liu, Yiming**, Xu, Dong, Tsang, Ivor W., and Luo, Jiebo, Textual Query of Personal Photos Facilitated by Large-Scale Web Data; *TPAMI May 2011 1022-1036*
- Liu, Yong-Jin**, Chen, Zhanqing, and Tang, Kai, Construction of Iso-Contours, Bisectors, and Voronoi Diagrams on Triangulated Surfaces; *TPAMI Aug. 2011 1502-1517*
- Liu, Yonghuai**, Penalizing Closest Point Sharing for Automatic Free Form Shape Registration; *TPAMI May 2011 1058-1064*
- Liu, Yu-Shen**, Ramani, Karthik, and Liu, Min, Computing the Inner Distances of Volumetric Models for Articulated Shape Description with a Visibility Graph; *TPAMI Dec. 2011 2538-2544*
- Liu, Zicheng**, see Yuan, Junsong, *TPAMI Sept. 2011 1728-1743*
- Luo, Jiebo**, see Liu, Yiming, *TPAMI May 2011 1022-1036*
- Lv, Fengjun**, see Huang, Yuchi, *TPAMI June 2011 1266-1273*

L

- Lai, Shang-Hong**, see Wang, Shu-Fan, *TPAMI Oct. 2011 2115-2121*
- Langer, Michael**, see McCloskey, Scott, *TPAMI March 2011 647-654*
- Lanza, Alessandro**, and Di Stefano, Luigi, Statistical Change Detection by the Pool Adjacent Violators Algorithm; *TPAMI Sept. 2011 1894-1910*
- Laptev, Ivan**, see Junejo, Imran N., *TPAMI Jan. 2011 172-185*
- Larlus, Diane**, see Stikic, Maja, *TPAMI Dec. 2011 2521-2537*
- Lawson, Wallace**, see Kamgar-Parsi, Behrooz, *TPAMI Oct. 2011 1925-1937*

M

- Ma, Yi**, see Hua, Gang, *TPAMI Oct. 2011 1921-1924*

- Ma, Zhanyu**, and Leijon, Arne, Bayesian Estimation of Beta Mixture Models with Variational Inference; *TPAMI Nov. 2011 2160-2173*
- Magnor, Marcus**, *see* Sellent, Anita, *TPAMI Aug. 2011 1577-1589*
- Maguire, Liam**, *see* Li, Yuhua, *TPAMI June 2011 1189-1201*
- Maire, Michael**, *see* Arbelaez, Pablo, *TPAMI May 2011 898-916*
- Makris, Nicholas C.**, *see* Jagannathan, Srinivasan, *TPAMI June 2011 1132-1146*
- Malik, Jitendra**, *see* Arbelaez, Pablo, *TPAMI May 2011 898-916*
- Malik, Jitendra**, *see* Brox, Thomas, *TPAMI March 2011 500-513*
- Maltoni, Davide**, *see* Cappelli, Raffaele, *TPAMI May 2011 1051-1057*
- Manduchi, Roberto**, *see* Gallo, Orazio, *TPAMI Sept. 2011 1834-1843*
- Martin, David R.**, *see* Jiang, Hao, *TPAMI July 2011 1339-1355*
- Martinez, Aleix M.**, *see* Gotardo, Paulo F.U., *TPAMI Oct. 2011 2051-2065*
- Martinez, Aleix M.**, *see* You, Di, *TPAMI March 2011 631-638*
- Masnadi-Shirazi, Hamed**, and Vasconcelos, Nuno, Cost-Sensitive Boosting; *TPAMI Feb. 2011 294-309*
- Matas, Jiri**, *see* Cai, Hongping, *TPAMI Feb. 2011 338-352*
- Matas, Jiri**, *see* Zabih, Ramin, *TPAMI Nov. 2011 2129-2130*
- Matas, Jiri**, *see* Zabih, Ramin, *TPAMI May 2011 865-866*
- Matas, Jiri**, *see* Zabih, Ramin, *TPAMI Dec. 2011 2337-2340*
- Matas, Jiri**, *see* Zabih, Ramin, *TPAMI Sept. 2011 1697-1698*
- Matas, Jiri**, *see* Zabih, Ramin, *TPAMI Jan. 2011 1-2*
- McAuley, Julian J.**, *see* Felzenszwalb, Pedro F., *TPAMI Dec. 2011 2549-2554*
- McCloskey, Scott**, Langer, Michael, and Siddiqi, Kaleem, Removal of Partial Occlusion from Single Images; *TPAMI March 2011 647-654*
- Mei, Xue**, and Ling, Haibin, Robust Visual Tracking and Vehicle Classification via Sparse Representation; *TPAMI Nov. 2011 2259-2272*
- Menasri, Fares**, *see* Bianne-Bernard, Anne-Laure, *TPAMI Oct. 2011 2066-2080*
- Metaxas, Dimitris N.**, *see* Huang, Yuchi, *TPAMI June 2011 1266-1273*
- Micheals, Ross J.**, *see* Scheirer, Walter J., *TPAMI Aug. 2011 1689-1695*
- Mikolajczyk, Krystian**, *see* Cai, Hongping, *TPAMI Feb. 2011 338-352*
- Milanfar, Peyman**, *see* Seo, Hae Jong, *TPAMI May 2011 867-882*
- Mishra, Akshaya K.**, Fieguth, Paul W., and Clausi, David A., Decoupled Active Contour (DAC) for Boundary Detection; *TPAMI Feb. 2011 310-324*
- Mokbel, Chafic**, *see* Bianne-Bernard, Anne-Laure, *TPAMI Oct. 2011 2066-2080*
- Moreno, Rodrigo**, Garcia, Miguel Angel, Puig, Domenec, Pizarro, Luis, Burgeth, Bernhard, and Weickert, Joachim, On Improving the Efficiency of Tensor Voting; *TPAMI Nov. 2011 2215-2228*
- Mori, Greg**, *see* Wang, Yang, *TPAMI July 2011 1310-1323*
- Morris, Brendan Tran**, and Trivedi, Mohan Manubhai, Trajectory Learning for Activity Understanding: Unsupervised, Multilevel, and Long-Term Adaptive Approach; *TPAMI Nov. 2011 2287-2301*
- Morris, Nigel J. W.**, and Kutulakos, Kiriakos N., Dynamic Refraction Stereo; *TPAMI Aug. 2011 1518-1531*
- Moser, Bernhard A.**, A Similarity Measure for Image and Volumetric Data Based on Hermann Weyl's Discrepancy; *TPAMI Nov. 2011 2321-2329*
- Mudenagudi, Uma**, Banerjee, Subhashis, and Kalra, Prem Kumar, Space-Time Super-Resolution Using Graph-Cut Optimization; *TPAMI May 2011 995-1008*
- Mundy, Joseph L.**, *see* Leotta, Matthew J., *TPAMI July 2011 1457-1469*
- Murino, Vittorio**, *see* Castellani, Umberto, *TPAMI Dec. 2011 2555-2560*

N

- Nagahara, Hajime**, *see* Kuthirummal, Sujit, *TPAMI Jan. 2011 58-71*
- Najman, Laurent**, *see* Couprie, Camille, *TPAMI July 2011 1384-1399*
- Nayar, Shree**, *see* Kumar, Neeraj, *TPAMI Oct. 2011 1962-1977*
- Nayar, Shree K.**, *see* Kuthirummal, Sujit, *TPAMI Jan. 2011 58-71*
- Neilson, Daniel**, and Yang, Yee-Hong, A Component-Wise Analysis of Constructible Match Cost Functions for Global Stereopsis; *TPAMI Nov. 2011 2147-2159*
- Newman, Ilan**, *see* Kleiner, Igor, *TPAMI Feb. 2011 256-265*
- Ng, Tian-Tsong**, *see* Chandraker, Manmohan, *TPAMI Oct. 2011 2122-2128*
- Nishiyama, Masashi**, Hadid, Abdenour, Takeshima, Hidenori, Shotton, Jamie, Kozakaya, Tatsuo, and Yamaguchi, Osamu, Facial Deblur Inference Using Subspace Analysis for Recognition of Blurred Faces; *TPAMI April 2011 838-845*
- Nunez, Marlon**, *see* Fidalgo-Merino, Raul, *TPAMI Aug. 2011 1659-1672*

+ Check author entry for coauthors

O

- Odobez, Jean-Marc**, *see* Ba, Sileye O., *TPAMI Jan. 2011 101-116*
- Ong, Eng-Jon**, and Bowden, Richard, Robust Facial Feature Tracking Using Shape-Constrained Multiresolution-Selected Linear Predictors; *TPAMI Sept. 2011 1844-1859*
- Ouzounis, Georgios K.**, and Wilkinson, Michael H. F., Hyperconnected Attribute Filters Based on k-Flat Zones; *TPAMI Feb. 2011 224-239*

P

- Pajdla, Tomas**, *see* Kukulova, Zuzana, *TPAMI Dec. 2011 2410-2422*
- Pan, Zhigeng**, *see* Zhu, Jiejie, *TPAMI July 2011 1400-1414*
- Panagopoulos, Michail**, *see* Arabadjis, Dimitris, *TPAMI Nov. 2011 2229-2244*
- Papadakis, Nicolas**, and Bugeau, Aurelie, Tracking with Occlusions via Graph Cuts; *TPAMI Jan. 2011 144-157*
- Papaodysseus, Constantin**, *see* Arabadjis, Dimitris, *TPAMI Nov. 2011 2229-2244*
- Papazoglou-Manioudaki, Lena**, *see* Arabadjis, Dimitris, *TPAMI Nov. 2011 2229-2244*
- Paragios, Nikos**, *see* Komodakis, Nikos, *TPAMI March 2011 531-552*
- Paragios, Nikos**, *see* de La Gorce, Martin, *TPAMI Sept. 2011 1793-1805*
- Passalis, Georgios**, Perakis, Panagiotis, Theoharis, Theoharis, and Kakadiaris, Ioannis A., Using Facial Symmetry to Handle Pose Variations in Real-World 3D Face Recognition; *TPAMI Oct. 2011 1938-1951*
- Patel, Vishal M.**, *see* Pillai, Jaishanker K., *TPAMI Sept. 2011 1877-1893*
- Pavlovic, Vladimir**, *see* Kim, Minyoung, *TPAMI April 2011 657-670*
- Peng, Bo**, and Qian, Gang, Online Gesture Spotting from Visual Hull Data; *TPAMI June 2011 1175-1188*
- Perakis, Panagiotis**, *see* Passalis, Georgios, *TPAMI Oct. 2011 1938-1951*
- Perez, Patrick**, *see* Junejo, Imran N., *TPAMI Jan. 2011 172-185*
- Perona, Pietro**, *see* Bart, Evgeniy, *TPAMI Nov. 2011 2302-2315*
- Peters, Jonas**, Janzing, Dominik, and Scholkopf, Bernhard, Causal Inference on Discrete Data Using Additive Noise Models; *TPAMI Dec. 2011 2436-2450*
- Phan, Trung Quy**, *see* Shivakumara, Palaiahnakote, *TPAMI Feb. 2011 412-419*
- Pillai, Jaishanker K.**, Patel, Vishal M., Chellappa, Rama, and Ratha, Nalini K., Secure and Robust Iris Recognition Using Random Projections and Sparse Representations; *TPAMI Sept. 2011 1877-1893*
- Pizarro, Luis**, *see* Moreno, Rodrigo, *TPAMI Nov. 2011 2215-2228*
- Pollefeys, Marc**, *see* Essa, Irfan, *TPAMI Dec. 2011 2339-2340*
- Ponce, Jean**, *see* Duchenne, Olivier, *TPAMI Dec. 2011 2383-2395*
- Porway, Jacob**, and Zhu, Song-Chun, C⁴: Exploring Multiple Solutions in Graphical Models by Cluster Sampling; *TPAMI Sept. 2011 1713-1727*
- Pozo, J. M.**, Villa-Uriol, M. C., and Frangi, A F., Efficient 3D Geometric and Zernike Moments Computation from Unstructured Surface Meshes; *TPAMI March 2011 471-484*
- Prabhu, Utsav**, Heo, Jingu, and Savvides, Marios, Unconstrained Pose-Invariant Face Recognition Using 3D Generic Elastic Models; *TPAMI Oct. 2011 1952-1961*
- Price, Chris**, *see* Lam-On, Natthakan, *TPAMI Dec. 2011 2396-2409*
- Priebe, Carey E.**, *see* Yang, Ting, *TPAMI Oct. 2011 2093-2103*
- Provenzi, Edoardo**, *see* Ferradans, Sira, *TPAMI Oct. 2011 2002-2012*
- Puig, Domenec**, *see* Moreno, Rodrigo, *TPAMI Nov. 2011 2215-2228*

Q

- Qian, Gang**, *see* Peng, Bo, *TPAMI June 2011 1175-1188*
- Qiu, Bite**, *see* Quan, Xiaojun, *TPAMI May 2011 1009-1021*
- Qiu, Guoping**, *see* Zhou, Ning, *TPAMI July 2011 1281-1294*
- Qiu, Peihua**, *see* Xing, Chen, *TPAMI Oct. 2011 2081-2092*
- Quan, Long**, *see* Tan, Ping, *TPAMI Dec. 2011 2506-2520*
- Quan, Xiaojun**, Wenyin, Liu, and Qiu, Bite, Term Weighting Schemes for Question Categorization; *TPAMI May 2011 1009-1021*

R

- Rahimzadeh Arashloo, Shervin**, and Kittler, Josef, Energy Normalization for Pose-Invariant Face Recognition Based on MRF Model Image Matching; *TPAMI June 2011 1274-1280*

Ramachandran, Mahesh, Veeraraghavan, Ashok, and Chellappa, Rama, A Fast Bilinear Structure from Motion Algorithm Using a Video Sequence and Inertial Sensors; *TPAMI Jan. 2011 186-193*

Ramamoorthi, Ravi, see Chandraker, Manmohan, *TPAMI Oct. 2011 2122-2128*

Ramanan, Deva, and Baker, Simon, Local Distance Functions: A Taxonomy, New Algorithms, and an Evaluation; *TPAMI April 2011 794-806*

Ramani, Karthik, see Liu, Yu-Shen, *TPAMI Dec. 2011 2538-2544*

Raskar, Ramesh, see Veeraraghavan, Ashok, *TPAMI April 2011 671-686*

Ratha, Nalini K., see Pillai, Jaishanker K., *TPAMI Sept. 2011 1877-1893*

Ratilal, Purnima, see Jagannathan, Srinivasan, *TPAMI June 2011 1132-1146*

Ravichandran, Avinash, and Vidal, Rene, Video Registration Using Dynamic Textures; *TPAMI Jan. 2011 158-171*

Razavi, Nima, see Gall, Juergen, *TPAMI Nov. 2011 2188-2202*

Reddy, Dikpal, see Veeraraghavan, Ashok, *TPAMI April 2011 671-686*

Rehg, Jim M., see Wu, Jianxin, *TPAMI Aug. 2011 1489-1501*

Reichlin, Fabian, see Breitenstein, Michael D., *TPAMI Sept. 2011 1820-1833*

Reid, Ian, see Williams, Brian, *TPAMI Sept. 2011 1699-1712*

Rivlin, Ehud, see Lerner, Ronen, *TPAMI Feb. 2011 406-411*

Robins, Vanessa, Wood, Peter John, and Sheppard, Adrian P., Theory and Algorithms for Constructing Discrete Morse Complexes from Grayscale Digital Images; *TPAMI Aug. 2011 1646-1658*

Robles-Kelly, Antonio, see Fu, Zhouyu, *TPAMI May 2011 958-977*

Rocha, Anderson, see Scheirer, Walter J., *TPAMI Aug. 2011 1689-1695*

Rousopoulos, Panayiotis, see Arabadjis, Dimitris, *TPAMI Nov. 2011 2229-2244*

Roy-Chowdhury, Amit K., see Xu, Yilei, *TPAMI Aug. 2011 1681-1688*

Rozenfeld, Stas, Shimshoni, Ilan, and Lindenbaum, Michael, Dense Mirroring Surface Recovery from 1D Homographies and Sparse Correspondences; *TPAMI Feb. 2011 325-337*

S

Sahbi, Hichem, Audibert, Jean-Yves, and Keriven, Renaud, Context-Dependent Kernels for Object Classification; *TPAMI April 2011 699-708*

Salvado, Olivier, see Dowson, Nicholas, *TPAMI March 2011 485-499*

Salzmann, Mathieu, and Fua, Pascal, Linear Local Models for Monocular Reconstruction of Deformable Surfaces; *TPAMI May 2011 931-944*

Sandhu, Romeil, Dambreville, Samuel, Yezzi, Anthony, and Tannenbaum, Allen, A Nonrigid Kernel-Based Framework for 2D-3D Pose Estimation and 2D Image Segmentation; *TPAMI June 2011 1098-1115*

Sandler, Roman, and Lindenbaum, Michael, Nonnegative Matrix Factorization with Earth Mover's Distance Metric for Image Analysis; *TPAMI Aug. 2011 1590-1602*

Sanniti di Baja, Gabriella, see Arcelli, Carlo, *TPAMI April 2011 709-720*

Savvides, Marios, see Prabhur, Utsav, *TPAMI Oct. 2011 1952-1961*

Scheirer, Walter J., Rocha, Anderson, Micheals, Ross J., and Boulton, Terrance E., Meta-Recognition: The Theory and Practice of Recognition Score Analysis; *TPAMI Aug. 2011 1689-1695*

Schiele, Bernt, see Stikic, Maja, *TPAMI Dec. 2011 2521-2537*

Schmid, Cordelia, see Jegou, Herve, *TPAMI Jan. 2011 117-128*

Scholkopf, Bernhard, see Peters, Jonas, *TPAMI Dec. 2011 2436-2450*

Schroff, F., Criminisi, A., and Zisserman, A., Harvesting Image Databases from the Web; *TPAMI April 2011 754-766*

Schweitzer, Haim, Deng, Rui, and Anderson, Robert Finis, A Dual-Bound Algorithm for Very Fast and Exact Template Matching; *TPAMI March 2011 459-470*

Sclaroff, Stan, see Yuan, Quan, *TPAMI March 2011 514-530*

Sclaroff, Stan, see Ablavsky, Vitaly, *TPAMI Sept. 2011 1758-1775*

Sellent, Anita, Eisemann, Martin, Goldlucke, Bastian, Cremers, Daniel, and Magnor, Marcus, Motion Field Estimation from Alternate Exposure Images; *TPAMI Aug. 2011 1577-1589*

Seo, Hae Jong, and Milanfar, Peyman, Action Recognition from One Example; *TPAMI May 2011 867-882*

Serino, Luca, see Arcelli, Carlo, *TPAMI April 2011 709-720*

Shafait, Faisal, and Bruel, Thomas M., The Effect of Border Noise on the Performance of Projection-Based Page Segmentation Methods; *TPAMI April 2011 846-851*

Shahed Nejhum, S.M., Chi, Yu-Tseh, Ho, Jeffrey, and Yang, Ming-Hsuan, Higher-Dimensional Affine Registration and Vision Applications; *TPAMI July 2011 1324-1338*

Shan, Shiguang, see Wang, Ruiping, *TPAMI Sept. 2011 1776-1792*

Sheikh, Yaser, see Datta, Ankur, *TPAMI April 2011 780-793*

+ Check author entry for coauthors

Sheikh, Yaser, see Akhter, Ijaz, *TPAMI July 2011 1442-1456*

Shen, Tian, see Li, Hongsheng, *TPAMI June 2011 1116-1131*

Sheppard, Adrian P., see Robins, Vanessa, *TPAMI Aug. 2011 1646-1658*

Shih, Zen-Chung, see Tsai, Yu-Ting, *TPAMI July 2011 1356-1369*

Shimshoni, Ilan, see Rozenfeld, Stas, *TPAMI Feb. 2011 325-337*

Shivakumara, Palaiahnakote, Phan, Trung Quy, and Tan, Chew Lim, A Laplacian Approach to Multi-Oriented Text Detection in Video; *TPAMI Feb. 2011 412-419*

Shotton, Jamie, see Nishiyama, Masashi, *TPAMI April 2011 838-845*

Shum, Heung-Yeung, see Wu, Zhong, *TPAMI Oct. 2011 1991-2001*

Shum, Heung-Yeung, see Liu, Tie, *TPAMI Feb. 2011 353-367*

Siddiqi, Kaleem, see McCloskey, Scott, *TPAMI March 2011 647-654*

Singaraju, Dheeraj, and Vidal, Rene, Estimation of Alpha Mattes for Multiple Image Layers; *TPAMI July 2011 1295-1309*

Song, Yangqiu, see Chen, Wen-Yen, *TPAMI March 2011 568-586*

Srivastava, Anuj, see Turaga, Pavan, *TPAMI Nov. 2011 2273-2286*

Srivastava, Anuj, Klassen, Eric, Joshi, Shantanu H., and Jermyn, Ian H., Shape Analysis of Elastic Curves in Euclidean Spaces; *TPAMI July 2011 1415-1428*

Stenger, Bjorn, see Brostow, Gabriel J., *TPAMI Oct. 2011 2104-2114*

Stikic, Maja, Larlus, Diane, Ebert, Sandra, and Schiele, Bernt, Weakly Supervised Recognition of Daily Life Activities with Wearable Sensors; *TPAMI Dec. 2011 2521-2537*

Sun, Jian, see He, Kaiming, *TPAMI Dec. 2011 2341-2353*

Sun, Jian, see Wu, Zhong, *TPAMI Oct. 2011 1991-2001*

Sun, Jian, see Liu, Tie, *TPAMI Feb. 2011 353-367*

Sun, Liang, Ji, Shuiwang, and Ye, Jieping, Canonical Correlation Analysis for Multilabel Classification: A Least-Squares Formulation, Extensions, and Analysis; *TPAMI Jan. 2011 194-200*

Sun, Zhenan, see Dong, Wenbo, *TPAMI Sept. 2011 1744-1757*

T

Tabia, Hedi, Daoudi, Mohamed, Vandeborste, Jean-Philippe, and Colot, Olivier, A New 3D-Matching Method of Nonrigid and Partially Similar Models Using Curve Analysis; *TPAMI April 2011 852-858*

Tai, Yu-Wing, see Lin, Hai Ting, *TPAMI Nov. 2011 2329-2336*

Tai, Yu-Wing, Tan, Ping, and Brown, Michael S., Richardson-Lucy Deblurring for Scenes under a Projective Motion Path; *TPAMI Aug. 2011 1603-1618*

Taigman, Yaniv, see Wolf, Lior, *TPAMI Oct. 2011 1978-1990*

Takeshima, Hidenori, see Nishiyama, Masashi, *TPAMI April 2011 838-845*

Talbot, Hugues, see Couprie, Camille, *TPAMI July 2011 1384-1399*

Tan, Chew Lim, see Wittek, Peter, *TPAMI Oct. 2011 2039-2050*

Tan, Chew Lim, see Shivakumara, Palaiahnakote, *TPAMI Feb. 2011 412-419*

Tan, Ping, see Tai, Yu-Wing, *TPAMI Aug. 2011 1603-1618*

Tan, Ping, Quan, Long, and Zickler, Todd, The Geometry of Reflectance Symmetries; *TPAMI Dec. 2011 2506-2520*

Tan, Tieniu, see Zhang, Zhang, *TPAMI Feb. 2011 240-255*

Tan, Tieniu, see Dong, Wenbo, *TPAMI Sept. 2011 1744-1757*

Tang, Kai, see Liu, Yong-Jin, *TPAMI Aug. 2011 1502-1517*

Tang, Li, Garvin, Mona K., Lee, Kyungmoo, Alward, Wallace L.W., Kwon, Young H., and Abramoff, Michael D., Robust Multiscale Stereo Matching from Fundus Images with Radiometric Differences; *TPAMI Nov. 2011 2245-2258*

Tang, Xiaou, see He, Kaiming, *TPAMI Dec. 2011 2341-2353*

Tang, Xiaou, see Liu, Tie, *TPAMI Feb. 2011 353-367*

Tang, Xiaou, see Liu, Jianzhuang, *TPAMI Jan. 2011 3-15*

Tannenbaum, Allen, see Sandhu, Romeil, *TPAMI June 2011 1098-1115*

Tao, Dacheng, see Bian, Wei, *TPAMI May 2011 1037-1050*

Taylor, Christopher J., see Twining, Carole J., *TPAMI Dec. 2011 2492-2505*

Thangali, Ashwin, see Yuan, Quan, *TPAMI March 2011 514-530*

Theoharis, Theoharis, see Passalis, Georgios, *TPAMI Oct. 2011 1938-1951*

Thevenaz, Philippe, Delgado-Gonzalo, Ricard, and Unser, Michael, The Ovucule; *TPAMI Feb. 2011 382-393*

Toet, Alexander, Computational versus Psychophysical Bottom-Up Image Saliency: A Comparative Evaluation Study; *TPAMI Nov. 2011 2131-2146*

Tong, Xin, see Cao, Xun, *TPAMI Dec. 2011 2423-2435*

Torralla, Antonio, see Liu, Ce, *TPAMI May 2011 978-994*

Torralla, Antonio, see Liu, Ce, *TPAMI Dec. 2011 2368-2382*

Trivedi, Mohan Manubhai, see Morris, Brendan Tran, *TPAMI Nov. 2011 2287-2301*

Troster, Gerhard, see Bulling, Andreas, *TPAMI April 2011 741-753*

- Tsai, Yu-Ting**, Fang, Kuei-Li, Lin, Wen-Chieh, and Shih, Zen-Chung, Modeling Bidirectional Texture Functions with Multivariate Spherical Radial Basis Functions; *TPAMI July 2011 1356-1369*
- Tsang, Ivor W.**, see Liu, Yiming, *TPAMI May 2011 1022-1036*
- Turaga, Pavan**, Veeraraghavan, Ashok, Srivastava, Anuj, and Chellappa, Rama, Statistical Computations on Grassmann and Stiefel Manifolds for Image and Video-Based Recognition; *TPAMI Nov. 2011 2273-2286*
- Turetken, Engin**, see Berclaz, Jerome, *TPAMI Sept. 2011 1806-1819*
- Turk, Matthew**, see Hua, Gang, *TPAMI Oct. 2011 1921-1924*
- Twining, Carole J.**, and Taylor, Christopher J., Specificity: A Graph-Based Estimator of Divergence; *TPAMI Dec. 2011 2492-2505*
- Tziritas, Georgios**, see Komodakis, Nikos, *TPAMI March 2011 531-552*

U

- Unser, Michael**, see Thevenaz, Philippe, *TPAMI Feb. 2011 382-393*

V

- van de Weijer, Joost**, see Vazquez, Eduard, *TPAMI May 2011 917-930*
- Van Gool, Luc**, see Gall, Juergen, *TPAMI Nov. 2011 2188-2202*
- Van Gool, Luc**, see Breitenstein, Michael D., *TPAMI Sept. 2011 1820-1833*
- Vandeborre, Jean-Philippe**, see Tabia, Hedi, *TPAMI April 2011 852-858*
- Vanrell, Maria**, see Vazquez, Eduard, *TPAMI May 2011 917-930*
- Vasconcelos, Nuno**, see Masnadi-Shirazi, Hamed, *TPAMI Feb. 2011 294-309*
- Vazquez, Eduard**, Baldrich, Ramon, van de Weijer, Joost, and Vanrell, Maria, Describing Reflectances for Color Segmentation Robust to Shadows, Highlights, and Textures; *TPAMI May 2011 917-930*
- Veeraraghavan, Ashok**, see Ramachandran, Mahesh, *TPAMI Jan. 2011 186-193*
- Veeraraghavan, Ashok**, see Turaga, Pavan, *TPAMI Nov. 2011 2273-2286*
- Veeraraghavan, Ashok**, Reddy, Dikpal, and Raskar, Ramesh, Coded Strobing Photography: Compressive Sensing of High Speed Periodic Videos; *TPAMI April 2011 671-686*
- Vemuri, Baba C.**, see Jian, Bing, *TPAMI Aug. 2011 1633-1645*
- Vemuri, Baba C.**, see Kumar, Ritwik, *TPAMI March 2011 533-567*
- Vidal, Rene**, see Ravichandran, Avinash, *TPAMI Jan. 2011 158-171*
- Vidal, Rene**, see Singaraju, Dheeraj, *TPAMI July 2011 1295-1309*
- Villa-Urriol, M. C.**, see Pozo, J. M., *TPAMI March 2011 471-484*
- Vogiatzis, George**, see Hernandez, Carlos, *TPAMI Feb. 2011 419-426*
- Vogiatzis, George**, see Brostow, Gabriel J., *TPAMI Oct. 2011 2104-2114*

W

- Wang, Cheng-Tzu**, see Chen, Yin-Nong, *TPAMI June 2011 1073-1086*
- Wang, Jingdong**, see Liu, Tie, *TPAMI Feb. 2011 353-367*
- Wang, Liang**, see Zhu, Jiejie, *TPAMI July 2011 1400-1414*
- Wang, Ruiping**, Shan, Shiguang, Chen, Xilin, Chen, Jie, and Gao, Wen, Maximal Linear Embedding for Dimensionality Reduction; *TPAMI Sept. 2011 1776-1792*
- Wang, Shihai**, see Chen, Ke, *TPAMI Jan. 2011 129-143*
- Wang, Shu-Fan**, and Lai, Shang-Hong, Reconstructing 3D Face Model with Associated Expression Deformation from a Single Face Image via Constructing a Low-Dimensional Expression Deformation Manifold; *TPAMI Oct. 2011 2115-2121*
- Wang, Yang**, and Mori, Greg, Hidden Part Models for Human Action Recognition: Probabilistic versus Max Margin; *TPAMI July 2011 1310-1323*
- Wang, Yi**, and Hu, Jiankun, Global Ridge Orientation Modeling for Partial Fingerprint Identification; *TPAMI Jan. 2011 72-87*
- Ward, Jamie A.**, see Bulling, Andreas, *TPAMI April 2011 741-753*
- Weickert, Joachim**, see Moreno, Rodrigo, *TPAMI Nov. 2011 2215-2228*
- Weiss, Yair**, see Levin, Anat, *TPAMI Dec. 2011 2354-2367*
- Welling, Max**, see Zabih, Ramin, *TPAMI Dec. 2011 2337-2340*
- Welling, Max**, see Bart, Evgeniy, *TPAMI Nov. 2011 2302-2315*
- Welling, Max**, see Zabih, Ramin, *TPAMI Nov. 2011 2129-2130*
- Wenyin, Liu**, see Quan, Xiaojun, *TPAMI May 2011 1009-1021*
- Wilburn, Bennett**, see Ben-Ezra, Moshe, *TPAMI July 2011 1370-1383*
- Wilkinson, Michael H. F.**, see Ouzounis, Georgios K., *TPAMI Feb. 2011 224-239*
- Williams, Brian**, Klein, Georg, and Reid, Ian, Automatic Relocalization and Loop Closing for Real-Time Monocular SLAM; *TPAMI Sept. 2011 1699-1712*

- Williams, Christopher K. I.**, see Harmeling, Stefan, *TPAMI June 2011 1087-1097*
- Winder, Simon**, see Brown, Matthew, *TPAMI Jan. 2011 43-57*
- Winn, John**, see Yin, Pei, *TPAMI Jan. 2011 30-42*
- Wittek, Peter**, and Tan, Chew Lim, Compactly Supported Basis Functions as Support Vector Kernels for Classification; *TPAMI Oct. 2011 2039-2050*
- Wolf, Lior**, Hassner, Tal, and Taigman, Yaniv, Effective Unconstrained Face Recognition by Combining Multiple Descriptors and Learned Background Statistics; *TPAMI Oct. 2011 1978-1990*
- Won, Chang-Hee**, see Lee, Jong-Ha, *TPAMI Feb. 2011 427-432*
- Woo, Woontack**, see Lee, Wonwoo, *TPAMI July 2011 1429-1441*
- Wood, Peter John**, see Robins, Vanessa, *TPAMI Aug. 2011 1646-1658*
- Wu, Jianxin**, and Rehg, Jim M., CENTRIST: A Visual Descriptor for Scene Categorization; *TPAMI Aug. 2011 1489-1501*
- Wu, Ying**, see Yuan, Junsong, *TPAMI Sept. 2011 1728-1743*
- Wu, Zhong**, Ke, Qifa, Sun, Jian, and Shum, Heung-Yeung, Scalable Face Image Retrieval with Identity-Based Quantization and Multireference Reranking; *TPAMI Oct. 2011 1991-2001*

X

- Xiang, Tao**, see Hospedales, Timothy M., *TPAMI Dec. 2011 2451-2464*
- Xing, Chen**, and Qiu, Peihua, Intensity-Based Image Registration by Nonparametric Local Smoothing; *TPAMI Oct. 2011 2081-2092*
- Xu, Dong**, see Liu, Yiming, *TPAMI May 2011 1022-1036*
- Xu, Yilei**, and Roy-Chowdhury, Amit K., A Physics-Based Analysis of Image Appearance Models; *TPAMI Aug. 2011 1681-1688*
- Xue, Xiangyang**, see Zhou, Ning, *TPAMI July 2011 1281-1294*

Y

- Yamaguchi, Osamu**, see Nishiyama, Masashi, *TPAMI April 2011 838-845*
- Yang, Ming-Hsuan**, see Shahed Nejhum, S.M., *TPAMI July 2011 1324-1338*
- Yang, Ming-Hsuan**, see Babenko, Boris, *TPAMI Aug. 2011 1619-1632*
- Yang, Ming-Hsuan**, see Hua, Gang, *TPAMI Oct. 2011 1921-1924*
- Yang, Ruigang**, see Zhu, Jiejie, *TPAMI July 2011 1400-1414*
- Yang, Ting**, and Priebe, Carey E., The Effect of Model Misspecification on Semi-Supervised Classification; *TPAMI Oct. 2011 2093-2103*
- Yang, Yee-Hong**, see Neilson, Daniel, *TPAMI Nov. 2011 2147-2159*
- Yao, Angela**, see Gall, Juergen, *TPAMI Nov. 2011 2188-2202*
- Ye, Jieping**, see Sun, Liang, *TPAMI Jan. 2011 194-200*
- Yezzi, Anthony**, see Sandhu, Romeil, *TPAMI June 2011 1098-1115*
- Yguel, Manuel**, see Horaud, Radu, *TPAMI March 2011 587-602*
- Yin, Pei**, Criminisi, Antonio, Winn, John, and Essa, Irfan A., Bilayer Segmentation of Webcam Videos Using Tree-Based Classifiers; *TPAMI Jan. 2011 30-42*
- You, Di**, Hamsici, Onur C., and Martinez, Aleix M., Kernel Optimization in Discriminant Analysis; *TPAMI March 2011 631-638*
- Yu, Stella X.**, see Jiang, Hao, *TPAMI July 2011 1339-1355*
- Yuan, Hao**, and Atallah, Mikhail J., Running Max/Min Filters Using $1+o(1)$ Comparisons per Sample; *TPAMI Dec. 2011 2544-2548*
- Yuan, Junsong**, Liu, Zicheng, and Wu, Ying, Discriminative Video Pattern Search for Efficient Action Detection; *TPAMI Sept. 2011 1728-1743*
- Yuan, Quan**, Thangali, Ashwin, Ablavsky, Vitaly, and Sclaroff, Stan, Learning a Family of Detectors via Multiplicative Kernels; *TPAMI March 2011 514-530*
- Yuan, Zejian**, see Liu, Tie, *TPAMI Feb. 2011 353-367*
- Yuen, Jenny**, see Liu, Ce, *TPAMI Dec. 2011 2368-2382*
- Yuen, Jenny**, see Liu, Ce, *TPAMI May 2011 978-994*

Z

- Zabih, Ramin**, Kang, Sing Bing, Matas, Jiri, and Welling, Max, Editor's Note; *TPAMI Nov. 2011 2129-2130*
- Zabih, Ramin**, Ghahramani, Zoubin, Kang, Sing Bing, and Matas, Jiri, Editor's Note; *TPAMI May 2011 865-866*
- Zabih, Ramin**, Kang, Sing Bing, Matas, Jiri, and Welling, Max, Editor's Note; *TPAMI Dec. 2011 2337-2340*
- Zabih, Ramin**, Ghahramani, Zoubin, Kang, Sing Bing, and Matas, Jiri, Editorial; *TPAMI Sept. 2011 1697-1698*
- Zabih, Ramin**, Matas, Jiri, and Ghahramani, Zoubin, State of the Journal; *TPAMI Jan. 2011 1-2*

- Zabih, Ramin**, *see* Felzenszwalb, Pedro F., *TPAMI April 2011 721-740*
- Zaharescu, Andrei**, Boyer, Edmond, and Horaud, Radu, Topology-Adaptive Mesh Deformation for Surface Evolution, Morphing, and Multiview Reconstruction; *TPAMI April 2011 823-837*
- Zamora-Martinez, F.**, *see* Espana-Boquera, S., *TPAMI April 2011 767-779*
- Zelnik-Manor, Lihi**, *see* Basri, Ronen, *TPAMI Feb. 2011 266-278*
- Zeng, Hong**, and Cheung, Yiu-ming, Feature Selection and Kernel Learning for Local Learning-Based Clustering; *TPAMI Aug. 2011 1532-1547*
- Zhang, Chiyuan**, *see* He, Xiaofei, *TPAMI Oct. 2011 2013-2025*
- Zhang, Cuiping**, *see* Kimmel, Ron, *TPAMI Nov. 2011 2316-2320*
- Zhang, Guo-Xin**, *see* Cheng, Ming-Ming, *TPAMI Jan. 2011 200-202*
- Zhang, Guofeng**, Jia, Jiaya, Hua, Wei, and Bao, Hujun, Robust Bilayer Segmentation and Motion/Depth Estimation with a Handheld Camera; *TPAMI March 2011 603-617*
- Zhang, Jian**, *see* Horaud, Radu, *TPAMI March 2011 587-602*
- Zhang, Lijun**, Chen, Chun, Bu, Jiajun, Cai, Deng, He, Xiaofei, and Huang, Thomas S., Active Learning Based on Locally Linear Reconstruction; *TPAMI Oct. 2011 2026-2038*
- Zhang, Wei**, *see* Ben-Ezra, Moshe, *TPAMI July 2011 1370-1383*
- Zhang, Yun**, and Chu, Henry, Ray Projection for Recovering Projective Transformations and Illumination Changes; *TPAMI March 2011 446-458*
- Zhang, Zhang**, Tan, Tieniu, and Huang, Kaiqi, An Extended Grammar System for Learning and Recognizing Complex Visual Events; *TPAMI Feb. 2011 240-255*
- Zheng, Nanning**, *see* Liu, Tie, *TPAMI Feb. 2011 353-367*
- Zheng, Wei-Shi**, *see* He, Ran, *TPAMI Aug. 2011 1561-1576*
- Zhou, Changyin**, *see* Kuthirummal, Sujit, *TPAMI Jan. 2011 58-71*
- Zhou, Hongbo**, *see* Cheng, Qiang, *TPAMI June 2011 1217-1233*
- Zhou, Jie**, *see* Dai, Jifeng, *TPAMI May 2011 945-957*
- Zhou, Jun**, *see* Fu, Zhouyu, *TPAMI May 2011 958-977*
- Zhou, Ning**, Cheung, William K., Qiu, Guoping, and Xue, Xiangyang, A Hybrid Probabilistic Model for Unified Collaborative and Content-Based Image Tagging; *TPAMI July 2011 1281-1294*
- Zhu, Jiejie**, Wang, Liang, Yang, Ruigang, Davis, James E., and Pan, Zhigeng, Reliability Fusion of Time-of-Flight Depth and Stereo Geometry for High Quality Depth Maps; *TPAMI July 2011 1400-1414*
- Zhu, Song-Chun**, *see* Porway, Jacob, *TPAMI Sept. 2011 1713-1727*
- Zickler, Todd**, *see* Tan, Ping, *TPAMI Dec. 2011 2506-2520*
- Zisserman, A.**, *see* Schroff, F., *TPAMI April 2011 754-766*

SUBJECT INDEX

A

Active shape model

Robustly Aligning a Shape Model and Its Application to Car Alignment of Unknown Pose. *Li, Yan*, +, *TPAMI Sept. 2011 1860-1876*

Additive noise

Causal Inference on Discrete Data Using Additive Noise Models. *Peters, Jonas*, +, *TPAMI Dec. 2011 2436-2450*

Affine transforms

Ray Projection for Recovering Projective Transformations and Illumination Changes. *Zhang, Yun*, +, *TPAMI March 2011 446-458*

Algebra

Linear Local Models for Monocular Reconstruction of Deformable Surfaces. *Salzmann, Mathieu*, +, *TPAMI May 2011 931-944*

Algorithm design and analysis

A Tensor-Based Algorithm for High-Order Graph Matching. *Duchenne, Olivier*, +, *TPAMI Dec. 2011 2383-2395*

C⁴: Exploring Multiple Solutions in Graphical Models by Cluster Sampling. *Porway, Jacob*, +, *TPAMI Sept. 2011 1713-1727*

Fast Inference with Min-Sum Matrix Product. *Felzenszwalb, Pedro F.*, +, *TPAMI Dec. 2011 2549-2554*

Running Max/Min Filters Using 1+o(1) Comparisons per Sample. *Yuan, Hao*, +, *TPAMI Dec. 2011 2544-2548*

Understanding Blind Deconvolution Algorithms. *Levin, Anat*, +, *TPAMI Dec. 2011 2354-2367*

Algorithm theory

Coordination of Cluster Ensembles via Exact Methods. *Christou, Ioannis T.*, +, *TPAMI Feb. 2011 279-293*

+ Check author entry for coauthors

Analytical models

Identifying Rare and Subtle Behaviors: A Weakly Supervised Joint Topic Model. *Hospedales, Timothy M.*, +, *TPAMI Dec. 2011 2451-2464*

Approximation algorithms

A Physics-Based Analysis of Image Appearance Models. *Xu, Yilei*, +, *TPAMI Aug. 2011 1681-1688*

Bayesian Estimation of Beta Mixture Models with Variational Inference. *Ma, Zhanyu*, +, *TPAMI Nov. 2011 2160-2173*

Modeling Bidirectional Texture Functions with Multivariate Spherical Radial Basis Functions. *Tsai, Yu-Ting*, +, *TPAMI July 2011 1356-1369*

On Improving the Efficiency of Tensor Voting. *Moreno, Rodrigo*, +, *TPAMI Nov. 2011 2215-2228*

Art

Optimization in Differentiable Manifolds in Order to Determine the Method of Construction of Prehistoric Wall Paintings. *Arabadjis, Dimitris*, +, *TPAMI Nov. 2011 2229-2244*

Reading 1D Barcodes with Mobile Phones Using Deformable Templates. *Gallo, Orazio*, +, *TPAMI Sept. 2011 1834-1843*

Artificial neural networks

Discriminative Video Pattern Search for Efficient Action Detection. *Yuan, Junsong*, +, *TPAMI Sept. 2011 1728-1743*

The Geometry of Reflectance Symmetries. *Tan, Ping*, +, *TPAMI Dec. 2011 2506-2520*

Atmospheric modeling

Single Image Haze Removal Using Dark Channel Prior. *He, Kaiming*, +, *TPAMI Dec. 2011 2341-2353*

Audio signal processing

Multiperson Visual Focus of Attention from Head Pose and Meeting Contextual Cues. *Ba, Sileye O.*, +, *TPAMI Jan. 2011 101-116*

B

Bayes methods

Bayesian Estimation of Beta Mixture Models with Variational Inference. *Ma, Zhanyu*, +, *TPAMI Nov. 2011 2160-2173*

Kernel Optimization in Discriminant Analysis. *You, Di*, +, *TPAMI March 2011 631-638*

Robust Visual Tracking and Vehicle Classification via Sparse Representation. *Mei, Xue*, +, *TPAMI Nov. 2011 2259-2272*

The Effect of Model Misspecification on Semi-Supervised Classification. *Yang, Ting*, +, *TPAMI Oct. 2011 2093-2103*

Robustly Aligning a Shape Model and Its Application to Car Alignment of Unknown Pose. *Li, Yan*, +, *TPAMI Sept. 2011 1860-1876*

Shape-Based Online Multitarget Tracking and Detection for Targets Causing Multiple Measurements: Variational Bayesian Clustering and Lossless Data Association. *De Laet, Timme*, +, *TPAMI Dec. 2011 2477-2491*

Behavioral sciences computing

Multiperson Visual Focus of Attention from Head Pose and Meeting Contextual Cues. *Ba, Sileye O.*, +, *TPAMI Jan. 2011 101-116*

Belief networks

Greedy Learning of Binary Latent Trees. *Harmeling, Stefan*, +, *TPAMI June 2011 1087-1097*

Fast Inference with Min-Sum Matrix Product. *Felzenszwalb, Pedro F.*, +, *TPAMI Dec. 2011 2549-2554*

Biometrics

Improved Iris Recognition through Fusion of Hamming Distance and Fragile Bit Distance. *Hollingsworth, Karen P.*, +, *TPAMI Dec. 2011 2465-2476*

Secure and Robust Iris Recognition Using Random Projections and Sparse Representations. *Pillai, Jaishanker K.*, +, *TPAMI Sept. 2011 1877-1893*

Fingerprint Indexing Based on Minutia Cylinder-Code. *Cappelli, Raffaele*, +, *TPAMI May 2011 1051-1057*

Multifeature-Based High-Resolution Palmprint Recognition. *Dai, Jifeng*, +, *TPAMI May 2011 945-957*

Blind equalizers

Understanding Blind Deconvolution Algorithms. *Levin, Anat*, +, *TPAMI Dec. 2011 2354-2367*

Brain-computer interfaces

Convolutional Neural Networks for P300 Detection with Application to Brain-Computer Interfaces. *Cecotti, Hubert*, +, *TPAMI March 2011 433-445*

C

Calibration

The Geometry of Reflectance Symmetries. *Tan, Ping*, +, *TPAMI Dec. 2011 2506-2520*

Cameras

A Minimal Solution to Radial Distortion Autocalibration. *Kukelova, Zuzana*, +, *TPAMI Dec. 2011 2410-2422*

A Prism-Mask System for Multispectral Video Acquisition. *Cao, Xun*, +, *TPAMI Dec. 2011 2423-2435*

Automatic Relocalization and Loop Closing for Real-Time Monocular SLAM. *Williams, Brian*, +, *TPAMI Sept. 2011 1699-1712*

Computing Smooth Time Trajectories for Camera and Deformable Shape in Structure from Motion with Occlusion. *Gotardo, Paulo F.U.*, +, *TPAMI Oct. 2011 2051-2065*

Flexible Depth of Field Photography. *Kuthirummal, Sujit*, +, *TPAMI Jan. 2011 58-71*

Improved Iris Recognition through Fusion of Hamming Distance and Fragile Bit Distance. *Hollingsworth, Karen P.*, +, *TPAMI Dec. 2011 2465-2476*

Layered Graphical Models for Tracking Partially Occluded Objects. *Ablavsky, Vitaly*, +, *TPAMI Sept. 2011 1758-1775*

Multiple Object Tracking Using K-Shortest Paths Optimization. *Berclaz, Jerome*, +, *TPAMI Sept. 2011 1806-1819*

Online Multiperson Tracking-by-Detection from a Single, Uncalibrated Camera. *Breitenstein, Michael D.*, +, *TPAMI Sept. 2011 1820-1833*

Reading 1D Barcodes with Mobile Phones Using Deformable Templates. *Gallo, Orazio*, +, *TPAMI Sept. 2011 1834-1843*

Robust Bilayer Segmentation and Motion/Depth Estimation with a Hand-held Camera. *Zhang, Guofeng*, +, *TPAMI March 2011 603-617*

Statistical Change Detection by the Pool Adjacent Violators Algorithm. *Lanza, Alessandro*, +, *TPAMI Sept. 2011 1894-1910*

Cellular phones

Reading 1D Barcodes with Mobile Phones Using Deformable Templates. *Gallo, Orazio*, +, *TPAMI Sept. 2011 1834-1843*

Change detection algorithms

Statistical Change Detection by the Pool Adjacent Violators Algorithm. *Lanza, Alessandro*, +, *TPAMI Sept. 2011 1894-1910*

Channel estimation

Single Image Haze Removal Using Dark Channel Prior. *He, Kaiming*, +, *TPAMI Dec. 2011 2341-2353*

Character recognition

A Laplacian Approach to Multi-Oriented Text Detection in Video. *Shivakumara, Palaiahnakote*, +, *TPAMI Feb. 2011 412-419*

Clustering algorithms

A Link-Based Approach to the Cluster Ensemble Problem. *Iam-On, Natthakan*, +, *TPAMI Dec. 2011 2396-2409*

Computing the Inner Distances of Volumetric Models for Articulated Shape Description with a Visibility Graph. *Liu, Yu-Shen*, +, *TPAMI Dec. 2011 2538-2544*

Shape-Based Online Multitarget Tracking and Detection for Targets Causing Multiple Measurements: Variational Bayesian Clustering and Lossless Data Association. *De Laet, Tinne*, +, *TPAMI Dec. 2011 2477-2491*

Complexity theory

Running Max/Min Filters Using $1+o(1)$ Comparisons per Sample. *Yuan, Hao*, +, *TPAMI Dec. 2011 2544-2548*

Computational complexity

Construction of Iso-Contours, Bisectors, and Voronoi Diagrams on Triangulated Surfaces. *Liu, Yong-Jin*, +, *TPAMI Aug. 2011 1502-1517*

Efficient 3D Geometric and Zernike Moments Computation from Unstructured Surface Meshes. *Pozo, J. M.*, +, *TPAMI March 2011 471-484*

Local Distance Functions: A Taxonomy, New Algorithms, and an Evaluation. *Ramanan, Deva*, +, *TPAMI April 2011 794-806*

On Improving the Efficiency of Tensor Voting. *Moreno, Rodrigo*, +, *TPAMI Nov. 2011 2215-2228*

Computational geometry

Construction of Iso-Contours, Bisectors, and Voronoi Diagrams on Triangulated Surfaces. *Liu, Yong-Jin*, +, *TPAMI Aug. 2011 1502-1517*

Context-Dependent Kernels for Object Classification. *Sahbi, Hichem*, +, *TPAMI April 2011 699-708*

Decomposition of Complex Line Drawings with Hidden Lines for 3D Planar-Faced Manifold Object Reconstruction. *Liu, Jianzhuang*, +, *TPAMI Jan. 2011 3-15*

Efficient 3D Geometric and Zernike Moments Computation from Unstructured Surface Meshes. *Pozo, J. M.*, +, *TPAMI March 2011 471-484*

Graph Regularized Nonnegative Matrix Factorization for Data Representation. *Cai, Deng*, +, *TPAMI Aug. 2011 1548-1560*

Hashed Nonlocal Means for Rapid Image Filtering. *Dowson, Nicholas*, +, *TPAMI March 2011 485-499*

Ray Projection for Recovering Projective Transformations and Illumination Changes. *Zhang, Yun*, +, *TPAMI March 2011 446-458*

Reconstructing 3D Face Model with Associated Expression Deformation from a Single Face Image via Constructing a Low-Dimensional Expression Deformation Manifold. *Wang, Shu-Fan*, +, *TPAMI Oct. 2011 2115-2121*

Reliability Fusion of Time-of-Flight Depth and Stereo Geometry for High Quality Depth Maps. *Zhu, Jiejie*, +, *TPAMI July 2011 1400-1414*

Statistical Computations on Grassmann and Stiefel Manifolds for Image and Video-Based Recognition. *Turaga, Pavan*, +, *TPAMI Nov. 2011 2273-2286*

The Ovuscul. *Thevenaz, Philippe*, +, *TPAMI Feb. 2011 382-393*

Theory and Algorithms for Constructing Discrete Morse Complexes from Grayscale Digital Images. *Robins, Vanessa*, +, *TPAMI Aug. 2011 1646-1658*

View-Independent Action Recognition from Temporal Self-Similarities. *Junejo, Imran N.*, +, *TPAMI Jan. 2011 172-185*

Computational modeling

Computing the Inner Distances of Volumetric Models for Articulated Shape Description with a Visibility Graph. *Liu, Yu-Shen*, +, *TPAMI Dec. 2011 2538-2544*

Fast Inference with Min-Sum Matrix Product. *Felzenszwalb, Pedro F.*, +, *TPAMI Dec. 2011 2549-2554*

Identifying Rare and Subtle Behaviors: A Weakly Supervised Joint Topic Model. *Hospedales, Timothy M.*, +, *TPAMI Dec. 2011 2451-2464*

Layered Graphical Models for Tracking Partially Occluded Objects. *Ablavsky, Vitaly*, +, *TPAMI Sept. 2011 1758-1775*

Running Max/Min Filters Using $1+o(1)$ Comparisons per Sample. *Yuan, Hao*, +, *TPAMI Dec. 2011 2544-2548*

Statistical Change Detection by the Pool Adjacent Violators Algorithm. *Lanza, Alessandro*, +, *TPAMI Sept. 2011 1894-1910*

Computer animation

Reconstructing 3D Face Model with Associated Expression Deformation from a Single Face Image via Constructing a Low-Dimensional Expression Deformation Manifold. *Wang, Shu-Fan*, +, *TPAMI Oct. 2011 2115-2121*

Computer displays

Dense Mirroring Surface Recovery from 1D Homographies and Sparse Correspondences. *Rozenfeld, Stas*, +, *TPAMI Feb. 2011 325-337*

Computer graphic equipment

Multiview Stereo and Silhouette Consistency via Convex Functionals over Convex Domains. *Cremers, Daniel*, +, *TPAMI June 2011 1161-1174*

Computer graphics

Computing Smooth Time Trajectories for Camera and Deformable Shape in Structure from Motion with Occlusion. *Gotardo, Paulo F.U.*, +, *TPAMI Oct. 2011 2051-2065*

Dynamic Processing Allocation in Video. *Chen, Daozheng*, +, *TPAMI Nov. 2011 2174-2187*

Motion Field Estimation from Alternate Exposure Images. *Sellent, Anita*, +, *TPAMI Aug. 2011 1577-1589*

Computer vision

3D Face Reconstruction from a Single Image Using a Single Reference Face Shape. *Kemelmacher-Shlizerman, Ira*, +, *TPAMI Feb. 2011 394-405*

A Physics-Based Analysis of Image Appearance Models. *Xu, Yilei*, +, *TPAMI Aug. 2011 1681-1688*

A Tensor-Based Algorithm for High-Order Graph Matching. *Duchenne, Olivier*, +, *TPAMI Dec. 2011 2383-2395*

Approximate Nearest Subspace Search. *Basri, Ronen*, +, *TPAMI Feb. 2011 266-278*

Are MSER Features Really Interesting?. *Kimmel, Ron*, +, *TPAMI Nov. 2011 2316-2320*

Bilayer Segmentation of Webcam Videos Using Tree-Based Classifiers. *Yin, Pei*, +, *TPAMI Jan. 2011 30-42*

Computing Smooth Time Trajectories for Camera and Deformable Shape in Structure from Motion with Occlusion. *Gotardo, Paulo F.U.*, +, *TPAMI Oct. 2011 2051-2065*

Contour Detection and Hierarchical Image Segmentation. *Arbelaez, Pablo*, +, *TPAMI May 2011 898-916*

Decomposition of Complex Line Drawings with Hidden Lines for 3D Planar-Faced Manifold Object Reconstruction. *Liu, Jianzhuang*, +, *TPAMI Jan. 2011 3-15*

- Discriminative Learning of Local Image Descriptors. *Brown, Matthew, +, TPAMI Jan. 2011 43-57*
- Dynamic Programming and Graph Algorithms in Computer Vision. *Felzenszwalb, Pedro F., +, TPAMI April 2011 721-740*
- Dynamic Refraction Stereo. *Morris, Nigel J. W., +, TPAMI Aug. 2011 1518-1531*
- Effective Unconstrained Face Recognition by Combining Multiple Descriptors and Learned Background Statistics. *Wolf, Lior, +, TPAMI Oct. 2011 1978-1990*
- Efficient 3D Geometric and Zernike Moments Computation from Unstructured Surface Meshes. *Pozo, J. M., +, TPAMI March 2011 471-484*
- Guest Editors' Introduction to the Special Section on Award-Winning Papers from the IEEE Conference on Computer Vision and Pattern Recognition 2009 (CVPR 2009). *Essa, Irfan, +, TPAMI Dec. 2011 2339-2340*
- Hidden Part Models for Human Action Recognition: Probabilistic versus Max Margin. *Wang, Yang, +, TPAMI July 2011 1310-1323*
- Higher-Dimensional Affine Registration and Vision Applications. *Shahed, S M Nejhun, +, TPAMI July 2011 1324-1338*
- Hough Forests for Object Detection, Tracking, and Action Recognition. *Gall, Juergen, +, TPAMI Nov. 2011 2188-2202*
- Introduction to the Special Section on Real-World Face Recognition. *Hua, Gang, +, TPAMI Oct. 2011 1921-1924*
- Kernel Optimization in Discriminant Analysis. *You, Di, +, TPAMI March 2011 631-638*
- Learning a Family of Detectors via Multiplicative Kernels. *Yuan, Quan, +, TPAMI March 2011 514-530*
- Maximal Linear Embedding for Dimensionality Reduction. *Wang, Ruiping, +, TPAMI Sept. 2011 1776-1792*
- MRF Energy Minimization and Beyond via Dual Decomposition. *Komodakis, Nikos, +, TPAMI March 2011 531-552*
- On Improving the Efficiency of Tensor Voting. *Moreno, Rodrigo, +, TPAMI Nov. 2011 2215-2228*
- Reading 1D Barcodes with Mobile Phones Using Deformable Templates. *Gallo, Orazio, +, TPAMI Sept. 2011 1834-1843*
- Reliability Fusion of Time-of-Flight Depth and Stereo Geometry for High Quality Depth Maps. *Zhu, Jiejie, +, TPAMI July 2011 1400-1414*
- SIFT Flow: Dense Correspondence across Scenes and Its Applications. *Liu, Ce, +, TPAMI May 2011 978-994*
- Transformation of General Binary MRF Minimization to the First-Order Case. *Ishikawa, Hiroshi, +, TPAMI June 2011 1234-1249*
- Video Normals from Colored Lights. *Brostow, Gabriel J., +, TPAMI Oct. 2011 2104-2114*
- Concave programming**
- Nonconvex Online Support Vector Machines. *Ertekin, Seyda, +, TPAMI Feb. 2011 368-381*
- Content-based retrieval**
- Describable Visual Attributes for Face Verification and Image Search. *Kumar, Neeraj, +, TPAMI Oct. 2011 1962-1977*
- Meta-Recognition: The Theory and Practice of Recognition Score Analysis. *Scheirer, Walter J., +, TPAMI Aug. 2011 1689-1695*
- Context-free grammars**
- An Extended Grammar System for Learning and Recognizing Complex Visual Events. *Zhang, Zhang, +, TPAMI Feb. 2011 240-255*
- Convergence**
- On the Duality of Forward and Inverse Light Transport. *Chandraker, Manmohan, +, TPAMI Oct. 2011 2122-2128*
- Richardson-Lucy Deblurring for Scenes under a Projective Motion Path. *Tai, Yu-Wing, +, TPAMI Aug. 2011 1603-1618*
- Convex programming**
- Active Learning Based on Locally Linear Reconstruction. *Zhang, Lijun, +, TPAMI Oct. 2011 2026-2038*
- Linear Scale and Rotation Invariant Matching. *Jiang, Hao, +, TPAMI July 2011 1339-1355*
- Convolution**
- Understanding Blind Deconvolution Algorithms. *Levin, Anat, +, TPAMI Dec. 2011 2354-2367*
- Costing**
- Semi-Supervised Learning via Regularized Boosting Working on Multiple Semi-Supervised Assumptions. *Chen, Ke, +, TPAMI Jan. 2011 129-143*
- Covariance analysis**
- Central Subspace Dimensionality Reduction Using Covariance Operators. *Kim, Minyoung, +, TPAMI April 2011 657-670*
- Covariance matrices**
- A Variance Minimization Criterion to Feature Selection Using Laplacian Regularization. *He, Xiaofei, +, TPAMI Oct. 2011 2013-2025*
- Accuracy of Pseudo-Inverse Covariance Learning—A Random Matrix Theory Analysis. *Hoyle, David C., +, TPAMI July 2011 1470-1481*
- Rigid and Articulated Point Registration with Expectation Conditional Maximization. *Horaud, Radu, +, TPAMI March 2011 587-602*
- Curve fitting**
- A New 3D-Matching Method of Nonrigid and Partially Similar Models Using Curve Analysis. *Tabia, Hedi, +, TPAMI April 2011 852-858*
- Distance-Driven Skeletonization in Voxel Images. *Arcelli, Carlo, +, TPAMI April 2011 709-720*
- Optimization in Differentiable Manifolds in Order to Determine the Method of Construction of Prehistoric Wall Paintings. *Arabadjis, Dimitris, +, TPAMI Nov. 2011 2229-2244*
- Removal of Partial Occlusion from Single Images. *McCloskey, Scott, +, TPAMI March 2011 647-654*
- Shape Analysis of Elastic Curves in Euclidean Spaces. *Srivastava, Anuj, +, TPAMI July 2011 1415-1428*
- D**
- Data analysis**
- Central Subspace Dimensionality Reduction Using Covariance Operators. *Kim, Minyoung, +, TPAMI April 2011 657-670*
- Data compression**
- An Analysis of Visual Adaptation and Contrast Perception for Tone Mapping. *Ferradans, Sira, +, TPAMI Oct. 2011 2002-2012*
- Central Subspace Dimensionality Reduction Using Covariance Operators. *Kim, Minyoung, +, TPAMI April 2011 657-670*
- Tiny Videos: A Large Data Set for Nonparametric Video Retrieval and Frame Classification. *Karpenko, Alexandre, +, TPAMI March 2011 618-630*
- Data handling**
- A Hybrid Probabilistic Model for Unified Collaborative and Content-Based Image Tagging. *Zhou, Ning, +, TPAMI July 2011 1281-1294*
- Coordination of Cluster Ensembles via Exact Methods. *Christou, Ioannis T., +, TPAMI Feb. 2011 279-293*
- Online Gesture Spotting from Visual Hull Data. *Peng, Bo, +, TPAMI June 2011 1175-1188*
- Self-Adaptive Induction of Regression Trees. *Fidalgo-Merino, Raul, +, TPAMI Aug. 2011 1659-1672*
- Data mining**
- A Link-Based Approach to the Cluster Ensemble Problem. *Iam-On, Natthakan, +, TPAMI Dec. 2011 2396-2409*
- Action Recognition Using Mined Hierarchical Compound Features. *Gilbert, Andrew, +, TPAMI May 2011 883-897*
- Tiny Videos: A Large Data Set for Nonparametric Video Retrieval and Frame Classification. *Karpenko, Alexandre, +, TPAMI March 2011 618-630*
- Data models**
- Identifying Rare and Subtle Behaviors: A Weakly Supervised Joint Topic Model. *Hospedales, Timothy M., +, TPAMI Dec. 2011 2451-2464*
- Maximal Linear Embedding for Dimensionality Reduction. *Wang, Ruiping, +, TPAMI Sept. 2011 1776-1792*
- Specificity: A Graph-Based Estimator of Divergence. *Twining, Carole J., +, TPAMI Dec. 2011 2492-2505*
- Data reduction**
- Selecting Critical Patterns Based on Local Geometrical and Statistical Information. *Li, Yuhua, +, TPAMI June 2011 1189-1201*
- Data structures**
- Active Learning Based on Locally Linear Reconstruction. *Zhang, Lijun, +, TPAMI Oct. 2011 2026-2038*
- Approximate Nearest Subspace Search. *Basri, Ronen, +, TPAMI Feb. 2011 266-278*
- Graph Regularized Nonnegative Matrix Factorization for Data Representation. *Cai, Deng, +, TPAMI Aug. 2011 1548-1560*
- Data visualization**
- Central Subspace Dimensionality Reduction Using Covariance Operators. *Kim, Minyoung, +, TPAMI April 2011 657-670*

Max-Min Distance Analysis by Using Sequential SDP Relaxation for Dimension Reduction. *Bian, Wei, +, TPAMI May 2011 1037-1050*

Databases

Nonparametric Scene Parsing via Label Transfer. *Liu, Ce, +, TPAMI Dec. 2011 2368-2382*

Decision support systems

Maximal Linear Embedding for Dimensionality Reduction. *Wang, Ruiping, +, TPAMI Sept. 2011 1776-1792*

Decision trees

Bilayer Segmentation of Webcam Videos Using Tree-Based Classifiers. *Yin, Pei, +, TPAMI Jan. 2011 30-42*

Dynamic and Contextual Information in HMM Modeling for Handwritten Word Recognition. *Bianne-Bernard, Anne-Laure, +, TPAMI Oct. 2011 2066-2080*

Decoding

Reading 1D Barcodes with Mobile Phones Using Deformable Templates. *Gallo, Orazio, +, TPAMI Sept. 2011 1834-1843*

Deconvolution

Flexible Depth of Field Photography. *Kuthirummal, Sujit, +, TPAMI Jan. 2011 58-71*

Understanding Blind Deconvolution Algorithms. *Levin, Anat, +, TPAMI Dec. 2011 2354-2367*

Deformable models

Robustly Aligning a Shape Model and Its Application to Car Alignment of Unknown Pose. *Li, Yan, +, TPAMI Sept. 2011 1860-1876*

Detectors

Multiple Object Tracking Using K-Shortest Paths Optimization. *Berclaz, Jerome, +, TPAMI Sept. 2011 1806-1819*

Online Multiperson Tracking-by-Detection from a Single, Uncalibrated Camera. *Breitenstein, Michael D., +, TPAMI Sept. 2011 1820-1833*

Differential geometry

Shape Analysis of Elastic Curves in Euclidean Spaces. *Srivastava, Anuj, +, TPAMI July 2011 1415-1428*

Digital images

Introduction to the Special Section on Real-World Face Recognition. *Hua, Gang, +, TPAMI Oct. 2011 1921-1924*

Discrete cosine transforms

Computing Smooth Time Trajectories for Camera and Deformable Shape in Structure from Motion with Occlusion. *Gotardo, Paulo F.U., +, TPAMI Oct. 2011 2051-2065*

Trajectory Space: A Dual Representation for Nonrigid Structure from Motion. *Akhter, Ijaz, +, TPAMI July 2011 1442-1456*

Divide and conquer methods

Decomposition of Complex Line Drawings with Hidden Lines for 3D Planar-Faced Manifold Object Reconstruction. *Liu, Jianzhuang, +, TPAMI Jan. 2011 3-15*

Document image processing

Hyperconnected Attribute Filters Based on k-Flat Zones. *Ouzounis, Georgios K., +, TPAMI Feb. 2011 224-239*

The Effect of Border Noise on the Performance of Projection-Based Page Segmentation Methods. *Shafait, Faisal, +, TPAMI April 2011 846-851*

Duality (mathematics)

Trajectory Space: A Dual Representation for Nonrigid Structure from Motion. *Akhter, Ijaz, +, TPAMI July 2011 1442-1456*

Dynamic programming

Dynamic Programming and Graph Algorithms in Computer Vision. *Felzenszwalb, Pedro F., +, TPAMI April 2011 721-740*

E

Edge detection

Contour Detection and Hierarchical Image Segmentation. *Arbelaez, Pablo, +, TPAMI May 2011 898-916*

The Ovusculc. *Thevenaz, Philippe, +, TPAMI Feb. 2011 382-393*

Eigenvalues and eigenfunctions

A Minimal Solution to Radial Distortion Autocalibration. *Kukelova, Zuzana, +, TPAMI Dec. 2011 2410-2422*

Accuracy of Pseudo-Inverse Covariance Learning—A Random Matrix Theory Analysis. *Hoyle, David C., +, TPAMI July 2011 1470-1481*

Electro-oculography

Eye Movement Analysis for Activity Recognition Using Electrooculography. *Bulling, Andreas, +, TPAMI April 2011 741-753*

Electroencephalography

Convolutional Neural Networks for P300 Detection with Application to Brain-Computer Interfaces. *Cecotti, Hubert, +, TPAMI March 2011 433-445*

Electroretinography

Robust Multiscale Stereo Matching from Fundus Images with Radiometric Differences. *Tang, Li, +, TPAMI Nov. 2011 2245-2258*

Emotion recognition

Reconstructing 3D Face Model with Associated Expression Deformation from a Single Face Image via Constructing a Low-Dimensional Expression Deformation Manifold. *Wang, Shu-Fan, +, TPAMI Oct. 2011 2115-2121*

Entropy

Specificity: A Graph-Based Estimator of Divergence. *Twining, Carole J., +, TPAMI Dec. 2011 2492-2505*

Equations

Running Max/Min Filters Using $1+o(1)$ Comparisons per Sample. *Yuan, Hao, +, TPAMI Dec. 2011 2544-2548*

Error correction codes

Turbo Segmentation of Textured Images. *Lehmann, Frederic, +, TPAMI Jan. 2011 16-29*

Estimation

Human Pose Estimation Using Consistent Max Covering. *Jiang, Hao, +, TPAMI Sept. 2011 1911-1918*

Dense Mirroring Surface Recovery from 1D Homographies and Sparse Correspondences. *Rozenfeld, Stas, +, TPAMI Feb. 2011 325-337*

Euclidean distance

Specificity: A Graph-Based Estimator of Divergence. *Twining, Carole J., +, TPAMI Dec. 2011 2492-2505*

Expectation-maximization algorithm

Bayesian Estimation of Beta Mixture Models with Variational Inference. *Ma, Zhanyu, +, TPAMI Nov. 2011 2160-2173*

Rigid and Articulated Point Registration with Expectation Conditional Maximization. *Horaud, Radu, +, TPAMI March 2011 587-602*

Turbo Segmentation of Textured Images. *Lehmann, Frederic, +, TPAMI Jan. 2011 16-29*

Eyelashes

Iris Matching Based on Personalized Weight Map. *Dong, Wenbo, +, TPAMI Sept. 2011 1744-1757*

Eyelids

Iris Matching Based on Personalized Weight Map. *Dong, Wenbo, +, TPAMI Sept. 2011 1744-1757*

F

Face recognition

3D Face Reconstruction from a Single Image Using a Single Reference Face Shape. *Kemelmacher-Shlizerman, Ira, +, TPAMI Feb. 2011 394-405*

Describable Visual Attributes for Face Verification and Image Search. *Kumar, Neeraj, +, TPAMI Oct. 2011 1962-1977*

Dynamic Processing Allocation in Video. *Chen, Daozheng, +, TPAMI Nov. 2011 2174-2187*

Effective Unconstrained Face Recognition by Combining Multiple Descriptors and Learned Background Statistics. *Wolf, Lior, +, TPAMI Oct. 2011 1978-1990*

Energy Normalization for Pose-Invariant Face Recognition Based on MRF Model Image Matching. *Rahimzadeh Arashloo, Shervin, +, TPAMI June 2011 1274-1280*

Face Recognition Using Nearest Feature Space Embedding. *Chen, Yin-Nong, +, TPAMI June 2011 1073-1086*

Facial Deblur Inference Using Subspace Analysis for Recognition of Blurred Faces. *Nishiyama, Masashi, +, TPAMI April 2011 838-845*

Introduction to the Special Section on Real-World Face Recognition. *Hua, Gang, +, TPAMI Oct. 2011 1921-1924*

Local Distance Functions: A Taxonomy, New Algorithms, and an Evaluation. *Ramanan, Deva, +, TPAMI April 2011 794-806*

Matching Forensic Sketches to Mug Shot Photos. *Klare, Brendan, +, TPAMI March 2011 639-646*

Max-Min Distance Analysis by Using Sequential SDP Relaxation for Dimension Reduction. *Bian, Wei, +, TPAMI May 2011 1037-1050*

Maximum Correntropy Criterion for Robust Face Recognition. *He, Ran, +, TPAMI Aug. 2011 1561-1576*

Meta-Recognition: The Theory and Practice of Recognition Score Analysis. *Scheirer, Walter J., +, TPAMI Aug. 2011 1689-1695*

Non-Lambertian Reflectance Modeling and Shape Recovery of Faces Using Tensor Splines. *Kumar, Ritwik*, +, *TPAMI March 2011 533-567*

Reconstructing 3D Face Model with Associated Expression Deformation from a Single Face Image via Constructing a Low-Dimensional Expression Deformation Manifold. *Wang, Shu-Fan*, +, *TPAMI Oct. 2011 2115-2121*

Robustly Aligning a Shape Model and Its Application to Car Alignment of Unknown Pose. *Li, Yan*, +, *TPAMI Sept. 2011 1860-1876*

Scalable Face Image Retrieval with Identity-Based Quantization and Multireference Reranking. *Wu, Zhong*, +, *TPAMI Oct. 2011 1991-2001*

Shape Analysis of Elastic Curves in Euclidean Spaces. *Srivastava, Anuj*, +, *TPAMI July 2011 1415-1428*

Toward Development of a Face Recognition System for Watchlist Surveillance. *Kamgar-Parsi, Behrooz*, +, *TPAMI Oct. 2011 1925-1937*

Unconstrained Pose-Invariant Face Recognition Using 3D Generic Elastic Models. *Prabhu, Utsav*, +, *TPAMI Oct. 2011 1952-1961*

Using Facial Symmetry to Handle Pose Variations in Real-World 3D Face Recognition. *Passalis, Georgios*, +, *TPAMI Oct. 2011 1938-1951*

Facial features

Robust Facial Feature Tracking Using Shape-Constrained Multiresolution-Selected Linear Predictors. *Ong, Eng-Jon*, +, *TPAMI Sept. 2011 1844-1859*

Feature extraction

A New 3D-Matching Method of Nonrigid and Partially Similar Models Using Curve Analysis. *Tabia, Hedi*, +, *TPAMI April 2011 852-858*

A Tensor-Based Algorithm for High-Order Graph Matching. *Duchenne, Olivier*, +, *TPAMI Dec. 2011 2383-2395*

Action Recognition Using Mined Hierarchical Compound Features. *Gilbert, Andrew*, +, *TPAMI May 2011 883-897*

Applying Property Testing to an Image Partitioning Problem. *Kleiner, Igor*, +, *TPAMI Feb. 2011 256-265*

Are MSER Features Really Interesting?. *Kimmel, Ron*, +, *TPAMI Nov. 2011 2316-2320*

Context-Dependent Kernels for Object Classification. *Sahbi, Hichem*, +, *TPAMI April 2011 699-708*

Efficient 3D Geometric and Zernike Moments Computation from Unstructured Surface Meshes. *Pozo, J. M.*, +, *TPAMI March 2011 471-484*

Eye Movement Analysis for Activity Recognition Using Electrooculography. *Bulling, Andreas*, +, *TPAMI April 2011 741-753*

Face Recognition Using Nearest Feature Space Embedding. *Chen, Yin-Nong*, +, *TPAMI June 2011 1073-1086*

Global Ridge Orientation Modeling for Partial Fingerprint Identification. *Wang, Yi*, +, *TPAMI Jan. 2011 72-87*

Hashed Nonlocal Means for Rapid Image Filtering. *Dowson, Nicholas*, +, *TPAMI March 2011 485-499*

Intensity-Based Image Registration by Nonparametric Local Smoothing. *Xing, Chen*, +, *TPAMI Oct. 2011 2081-2092*

Iris Matching Based on Personalized Weight Map. *Dong, Wenbo*, +, *TPAMI Sept. 2011 1744-1757*

Kernel Optimization in Discriminant Analysis. *You, Di*, +, *TPAMI March 2011 631-638*

Learning a Family of Detectors via Multiplicative Kernels. *Yuan, Quan*, +, *TPAMI March 2011 514-530*

Learning Linear Discriminant Projections for Dimensionality Reduction of Image Descriptors. *Cai, Hongping*, +, *TPAMI Feb. 2011 338-352*

Matching Forensic Sketches to Mug Shot Photos. *Klare, Brendan*, +, *TPAMI March 2011 639-646*

Motion Regularization for Matting Motion Blurred Objects. *Lin, Hai Ting*, +, *TPAMI Nov. 2011 2329-2336*

Multifeature-Based High-Resolution Palmprint Recognition. *Dai, Jifeng*, +, *TPAMI May 2011 945-957*

Ray Projection for Recovering Projective Transformations and Illumination Changes. *Zhang, Yun*, +, *TPAMI March 2011 446-458*

Robust Bilayer Segmentation and Motion/Depth Estimation with a Hand-held Camera. *Zhang, Guofeng*, +, *TPAMI March 2011 603-617*

Robust Facial Feature Tracking Using Shape-Constrained Multiresolution-Selected Linear Predictors. *Ong, Eng-Jon*, +, *TPAMI Sept. 2011 1844-1859*

Secure and Robust Iris Recognition Using Random Projections and Sparse Representations. *Pillai, Jaishanker K.*, +, *TPAMI Sept. 2011 1877-1893*

Silhouette Segmentation in Multiple Views. *Lee, Wonwoo*, +, *TPAMI July 2011 1429-1441*

Statistical 3D Shape Analysis by Local Generative Descriptors. *Castellani, Umberto*, +, *TPAMI Dec. 2011 2555-2560*

Statistical Change Detection by the Pool Adjacent Violators Algorithm. *Lanza, Alessandro*, +, *TPAMI Sept. 2011 1894-1910*

View-Independent Action Recognition from Temporal Self-Similarities. *Junejo, Imran N.*, +, *TPAMI Jan. 2011 172-185*

File organization

Product Quantization for Nearest Neighbor Search. *Jegou, Herve*, +, *TPAMI Jan. 2011 117-128*

Fingerprint identification

Fingerprint Indexing Based on Minutia Cylinder-Code. *Cappelli, Raffaele*, +, *TPAMI May 2011 1051-1057*

Fingerprint Reconstruction: From Minutiae to Phase. *Feng, Jianjiang*, +, *TPAMI Feb. 2011 209-223*

Global Ridge Orientation Modeling for Partial Fingerprint Identification. *Wang, Yi*, +, *TPAMI Jan. 2011 72-87*

Latent Fingerprint Matching. *Jain, Anil K.*, +, *TPAMI Jan. 2011 88-100*

Meta-Recognition: The Theory and Practice of Recognition Score Analysis. *Scheirer, Walter J.*, +, *TPAMI Aug. 2011 1689-1695*

Finite element analysis

On the Duality of Forward and Inverse Light Transport. *Chandraker, Manmohan*, +, *TPAMI Oct. 2011 2122-2128*

Flow control

Force Estimation and Prediction from Time-Varying Density Images. *Jagannathan, Srinivasan*, +, *TPAMI June 2011 1132-1146*

Fourier transforms

A Laplacian Approach to Multi-Oriented Text Detection in Video. *Shivakumara, Palaiahnakote*, +, *TPAMI Feb. 2011 412-419*

Coded Stroboscopic Photography: Compressive Sensing of High Speed Periodic Videos. *Veeraraghavan, Ashok*, +, *TPAMI April 2011 671-686*

Frequency-domain analysis

A Laplacian Approach to Multi-Oriented Text Detection in Video. *Shivakumara, Palaiahnakote*, +, *TPAMI Feb. 2011 412-419*

G

Gaussian processes

Approximately Global Optimization for Robust Alignment of Generalized Shapes. *Li, Hongsheng*, +, *TPAMI June 2011 1116-1131*

Dynamic and Contextual Information in HMM Modeling for Handwritten Word Recognition. *Bianne-Bernard, Anne-Laure*, +, *TPAMI Oct. 2011 2066-2080*

Online Multiperson Tracking-by-Detection from a Single, Uncalibrated Camera. *Breitenstein, Michael D.*, +, *TPAMI Sept. 2011 1820-1833*

Reconstructing 3D Face Model with Associated Expression Deformation from a Single Face Image via Constructing a Low-Dimensional Expression Deformation Manifold. *Wang, Shu-Fan*, +, *TPAMI Oct. 2011 2115-2121*

Rigid and Articulated Point Registration with Expectation Conditional Maximization. *Horaud, Radu*, +, *TPAMI March 2011 587-602*

Robust Point Set Registration Using Gaussian Mixture Models. *Jian, Bing*, +, *TPAMI Aug. 2011 1633-1645*

Trajectory Learning for Activity Understanding: Unsupervised, Multilevel, and Long-Term Adaptive Approach. *Morris, Brendan Tran*, +, *TPAMI Nov. 2011 2287-2301*

Geometry

Shape Recognition with Spectral Distances. *Bronstein, Michael M.*, +, *TPAMI May 2011 1065-1071*

Gesture recognition

Action Recognition from One Example. *Seo, Hae Jong*, +, *TPAMI May 2011 867-882*

Action Recognition Using Mined Hierarchical Compound Features. *Gilbert, Andrew*, +, *TPAMI May 2011 883-897*

Hough Forests for Object Detection, Tracking, and Action Recognition. *Gall, Juergen*, +, *TPAMI Nov. 2011 2188-2202*

Online Gesture Spotting from Visual Hull Data. *Peng, Bo*, +, *TPAMI June 2011 1175-1188*

Gradient methods

Cost-Sensitive Boosting. *Masnadi-Shirazi, Hamed*, +, *TPAMI Feb. 2011 294-309*

Linearized Motion Estimation for Articulated Planes. *Datta, Ankur*, +, *TPAMI April 2011 780-793*

Motion Regularization for Matting Motion Blurred Objects. *Lin, Hai Ting*, +, *TPAMI Nov. 2011 2329-2336*

The Oviscule. *Thevenaz, Philippe*, +, *TPAMI Feb. 2011 382-393*

Vehicle Detection Using Partial Least Squares. *Kembhavi, Aniruddha*, +, *TPAMI June 2011 1250-1265*

Graph theory

- Dynamic Programming and Graph Algorithms in Computer Vision. *Felzenszwalb, Pedro F.*, +, *TPAMI April 2011 721-740*
- Graph Regularized Nonnegative Matrix Factorization for Data Representation. *Cai, Deng*, +, *TPAMI Aug. 2011 1548-1560*
- MRF Energy Minimization and Beyond via Dual Decomposition. *Komodakis, Nikos*, +, *TPAMI March 2011 531-552*
- Power Watershed: A Unifying Graph-Based Optimization Framework. *Coupric, Camille*, +, *TPAMI July 2011 1384-1399*
- Space-Time Super-Resolution Using Graph-Cut Optimization. *Mudenagudi, Uma*, +, *TPAMI May 2011 995-1008*
- Tracking with Occlusions via Graph Cuts. *Papadakis, Nicolas*, +, *TPAMI Jan. 2011 144-157*
- Unsupervised Image Categorization by Hypergraph Partition. *Huang, Yuchi*, +, *TPAMI June 2011 1266-1273*

Graphical models

- C^4 : Exploring Multiple Solutions in Graphical Models by Cluster Sampling. *Porway, Jacob*, +, *TPAMI Sept. 2011 1713-1727*
- Fast Inference with Min-Sum Matrix Product. *Felzenszwalb, Pedro F.*, +, *TPAMI Dec. 2011 2549-2554*
- Layered Graphical Models for Tracking Partially Occluded Objects. *Ablavsky, Vitaly*, +, *TPAMI Sept. 2011 1758-1775*

Greedy algorithms

- Greedy Learning of Binary Latent Trees. *Harmeling, Stefan*, +, *TPAMI June 2011 1087-1097*

H**Hadamard transforms**

- A Dual-Bound Algorithm for Very Fast and Exact Template Matching. *Schweitzer, Haim*, +, *TPAMI March 2011 459-470*

Hamming distance

- Improved Iris Recognition through Fusion of Hamming Distance and Fragile Bit Distance. *Hollingsworth, Karen P.*, +, *TPAMI Dec. 2011 2465-2476*
- Iris Matching Based on Personalized Weight Map. *Dong, Wenbo*, +, *TPAMI Sept. 2011 1744-1757*

Handwriting recognition

- Dynamic and Contextual Information in HMM Modeling for Handwritten Word Recognition. *Bianne-Bernard, Anne-Laure*, +, *TPAMI Oct. 2011 2066-2080*

Handwritten character recognition

- Dynamic and Contextual Information in HMM Modeling for Handwritten Word Recognition. *Bianne-Bernard, Anne-Laure*, +, *TPAMI Oct. 2011 2066-2080*
- Improving Offline Handwritten Text Recognition with Hybrid HMM/ANN Models. *Espana-Boquera, S.*, +, *TPAMI April 2011 767-779*

Heuristic algorithms

- C^4 : Exploring Multiple Solutions in Graphical Models by Cluster Sampling. *Porway, Jacob*, +, *TPAMI Sept. 2011 1713-1727*
- Fast Inference with Min-Sum Matrix Product. *Felzenszwalb, Pedro F.*, +, *TPAMI Dec. 2011 2549-2554*
- Online Multiperson Tracking-by-Detection from a Single, Uncalibrated Camera. *Breitenstein, Michael D.*, +, *TPAMI Sept. 2011 1820-1833*

Hidden feature removal

- Decomposition of Complex Line Drawings with Hidden Lines for 3D Planar-Faced Manifold Object Reconstruction. *Liu, Jianzhuang*, +, *TPAMI Jan. 2011 3-15*
- Ray Projection for Recovering Projective Transformations and Illumination Changes. *Zhang, Yun*, +, *TPAMI March 2011 446-458*
- Removal of Partial Occlusion from Single Images. *McCloskey, Scott*, +, *TPAMI March 2011 647-654*

Hidden Markov models

- Decoupled Active Contour (DAC) for Boundary Detection. *Mishra, Akshaya K.*, +, *TPAMI Feb. 2011 310-324*
- Dynamic and Contextual Information in HMM Modeling for Handwritten Word Recognition. *Bianne-Bernard, Anne-Laure*, +, *TPAMI Oct. 2011 2066-2080*
- Identifying Rare and Subtle Behaviors: A Weakly Supervised Joint Topic Model. *Hospedales, Timothy M.*, +, *TPAMI Dec. 2011 2451-2464*
- Improving Offline Handwritten Text Recognition with Hybrid HMM/ANN Models. *Espana-Boquera, S.*, +, *TPAMI April 2011 767-779*
- Online Gesture Spotting from Visual Hull Data. *Peng, Bo*, +, *TPAMI June 2011 1175-1188*

Statistical 3D Shape Analysis by Local Generative Descriptors. *Castellani, Umberto*, +, *TPAMI Dec. 2011 2555-2560*

Trajectory Learning for Activity Understanding: Unsupervised, Multilevel, and Long-Term Adaptive Approach. *Morris, Brendan Tran*, +, *TPAMI Nov. 2011 2287-2301*

Hilbert spaces

Feature Selection and Kernel Learning for Local Learning-Based Clustering. *Zeng, Hong*, +, *TPAMI Aug. 2011 1532-1547*

Histograms

Nonparametric Scene Parsing via Label Transfer. *Liu, Ce*, +, *TPAMI Dec. 2011 2368-2382*

Hough transforms

Hough Forests for Object Detection, Tracking, and Action Recognition. *Gall, Juergen*, +, *TPAMI Nov. 2011 2188-2202*

Human computer interaction

Convolutional Neural Networks for P300 Detection with Application to Brain-Computer Interfaces. *Cecotti, Hubert*, +, *TPAMI March 2011 433-445*

Human factors

Human Pose Estimation Using Consistent Max Covering. *Jiang, Hao*, +, *TPAMI Sept. 2011 1911-1918*

I**IEEE**

2010 Reviewers List. *TPAMI Jan. 2011 203-208*

Image classification

- Bilayer Segmentation of Webcam Videos Using Tree-Based Classifiers. *Yin, Pei*, +, *TPAMI Jan. 2011 30-42*
- Color Constancy Using Natural Image Statistics and Scene Semantics. *Gijssen, Arjan*, +, *TPAMI April 2011 687-698*
- Context-Dependent Kernels for Object Classification. *Sahbi, Hichem*, +, *TPAMI April 2011 699-708*
- Describable Visual Attributes for Face Verification and Image Search. *Kumar, Neeraj*, +, *TPAMI Oct. 2011 1962-1977*
- Effective Unconstrained Face Recognition by Combining Multiple Descriptors and Learned Background Statistics. *Wolf, Lior*, +, *TPAMI Oct. 2011 1978-1990*
- Improving Offline Handwritten Text Recognition with Hybrid HMM/ANN Models. *Espana-Boquera, S.*, +, *TPAMI April 2011 767-779*
- Learning a Family of Detectors via Multiplicative Kernels. *Yuan, Quan*, +, *TPAMI March 2011 514-530*
- Local Distance Functions: A Taxonomy, New Algorithms, and an Evaluation. *Ramanan, Deva*, +, *TPAMI April 2011 794-806*
- Nonnegative Matrix Factorization with Earth Mover's Distance Metric for Image Analysis. *Sandler, Roman*, +, *TPAMI Aug. 2011 1590-1602*
- Revisiting Linear Discriminant Techniques in Gender Recognition. *Bekios-Calfa, Juan*, +, *TPAMI April 2011 858-864*
- Robust Object Tracking with Online Multiple Instance Learning. *Babenko, Boris*, +, *TPAMI Aug. 2011 1619-1632*
- Textual Query of Personal Photos Facilitated by Large-Scale Web Data. *Liu, Yiming*, +, *TPAMI May 2011 1022-1036*
- Tiny Videos: A Large Data Set for Nonparametric Video Retrieval and Frame Classification. *Karpenko, Alexandre*, +, *TPAMI March 2011 618-630*
- Toward Development of a Face Recognition System for Watchlist Surveillance. *Kamgar-Parsi, Behrooz*, +, *TPAMI Oct. 2011 1925-1937*
- Unsupervised Image Categorization by Hypergraph Partition. *Huang, Yuchi*, +, *TPAMI June 2011 1266-1273*

Image coding

An Analysis of Visual Adaptation and Contrast Perception for Tone Mapping. *Ferradans, Sira*, +, *TPAMI Oct. 2011 2002-2012*

Image color analysis

- Color Constancy Using Natural Image Statistics and Scene Semantics. *Gijssen, Arjan*, +, *TPAMI April 2011 687-698*
- Describing Reflectances for Color Segmentation Robust to Shadows, Highlights, and Textures. *Vazquez, Eduard*, +, *TPAMI May 2011 917-930*
- Estimation of Alpha Mattes for Multiple Image Layers. *Singaraju, Dheeraj*, +, *TPAMI July 2011 1295-1309*
- Learning to Detect a Salient Object. *Liu, Tie*, +, *TPAMI Feb. 2011 353-367*
- Overcoming Shadows in 3-Source Photometric Stereo. *Hernandez, Carlos*, +, *TPAMI Feb. 2011 419-426*

- Robust Stereo Matching Using Adaptive Normalized Cross-Correlation. *Heo, Yong Seok*, +, *TPAMI April 2011 807-822*
- Silhouette Segmentation in Multiple Views. *Lee, Wonwoo*, +, *TPAMI July 2011 1429-1441*
- Single Image Haze Removal Using Dark Channel Prior. *He, Kaiming*, +, *TPAMI Dec. 2011 2341-2353*
- Vehicle Detection Using Partial Least Squares. *Kembhavi, Aniruddha*, +, *TPAMI June 2011 1250-1265*
- Image denoising**
- Hashed Nonlocal Means for Rapid Image Filtering. *Dowson, Nicholas*, +, *TPAMI March 2011 485-499*
- Richardson-Lucy Deblurring for Scenes under a Projective Motion Path. *Tai, Yu-Wing*, +, *TPAMI Aug. 2011 1603-1618*
- The Effect of Border Noise on the Performance of Projection-Based Page Segmentation Methods. *Shafait, Faisal*, +, *TPAMI April 2011 846-851*
- Image edge detection**
- Model-Based 3D Hand Pose Estimation from Monocular Video. *de La Gorce, Martin*, +, *TPAMI Sept. 2011 1793-1805*
- Reading 1D Barcodes with Mobile Phones Using Deformable Templates. *Gallo, Orazio*, +, *TPAMI Sept. 2011 1834-1843*
- Image enhancement**
- Shadow Removal Using Intensity Surfaces and Texture Anchor Points. *Arbel, Eli*, +, *TPAMI June 2011 1202-1216*
- Understanding Blind Deconvolution Algorithms. *Levin, Anat*, +, *TPAMI Dec. 2011 2354-2367*
- Image fusion**
- Meta-Recognition: The Theory and Practice of Recognition Score Analysis. *Scheirer, Walter J.*, +, *TPAMI Aug. 2011 1689-1695*
- Reliability Fusion of Time-of-Flight Depth and Stereo Geometry for High Quality Depth Maps. *Zhu, Jiejie*, +, *TPAMI July 2011 1400-1414*
- Image matching**
- A Component-Wise Analysis of Constructible Match Cost Functions for Global Stereopsis. *Neilson, Daniel*, +, *TPAMI Nov. 2011 2147-2159*
- A Dual-Bound Algorithm for Very Fast and Exact Template Matching. *Schweitzer, Haim*, +, *TPAMI March 2011 459-470*
- A New 3D-Matching Method of Nonrigid and Partially Similar Models Using Curve Analysis. *Tabia, Hedi*, +, *TPAMI April 2011 852-858*
- A Similarity Measure for Image and Volumetric Data Based on Hermann Weyl's Discrepancy. *Moser, Bernhard A.*, +, *TPAMI Nov. 2011 2321-2329*
- Effective Unconstrained Face Recognition by Combining Multiple Descriptors and Learned Background Statistics. *Wolf, Lior*, +, *TPAMI Oct. 2011 1978-1990*
- Energy Normalization for Pose-Invariant Face Recognition Based on MRF Model Image Matching. *Rahimzadeh Arashloo, Shervin*, +, *TPAMI June 2011 1274-1280*
- Global Ridge Orientation Modeling for Partial Fingerprint Identification. *Wang, Yi*, +, *TPAMI Jan. 2011 72-87*
- Higher-Dimensional Affine Registration and Vision Applications. *Shahed, S M Nejhumi*, +, *TPAMI July 2011 1324-1338*
- Hough Forests for Object Detection, Tracking, and Action Recognition. *Gall, Juergen*, +, *TPAMI Nov. 2011 2188-2202*
- Large Displacement Optical Flow: Descriptor Matching in Variational Motion Estimation. *Brox, Thomas*, +, *TPAMI March 2011 500-513*
- Latent Fingerprint Matching. *Jain, Anil K.*, +, *TPAMI Jan. 2011 88-100*
- Learning Linear Discriminant Projections for Dimensionality Reduction of Image Descriptors. *Cai, Hongping*, +, *TPAMI Feb. 2011 338-352*
- Linear Scale and Rotation Invariant Matching. *Jiang, Hao*, +, *TPAMI July 2011 1339-1355*
- Matching Forensic Sketches to Mug Shot Photos. *Klare, Brendan*, +, *TPAMI March 2011 639-646*
- Ray Projection for Recovering Projective Transformations and Illumination Changes. *Zhang, Yun*, +, *TPAMI March 2011 446-458*
- Rigid and Articulated Point Registration with Expectation Conditional Maximization. *Horaud, Radu*, +, *TPAMI March 2011 587-602*
- Robust Multiscale Stereo Matching from Fundus Images with Radiometric Differences. *Tang, Li*, +, *TPAMI Nov. 2011 2245-2258*
- Robust Stereo Matching Using Adaptive Normalized Cross-Correlation. *Heo, Yong Seok*, +, *TPAMI April 2011 807-822*
- Shape Analysis of Elastic Curves in Euclidean Spaces. *Srivastava, Anuj*, +, *TPAMI July 2011 1415-1428*
- Unconstrained Pose-Invariant Face Recognition Using 3D Generic Elastic Models. *Prabhu, Utsav*, +, *TPAMI Oct. 2011 1952-1961*
- Vehicle Surveillance with a Generic, Adaptive, 3D Vehicle Model. *Leotta, Matthew J.*, +, *TPAMI July 2011 1457-1469*
- Image morphing**
- Modeling Bidirectional Texture Functions with Multivariate Spherical Radial Basis Functions. *Tsai, Yu-Ting*, +, *TPAMI July 2011 1356-1369*
- Image motion analysis**
- A Physics-Based Analysis of Image Appearance Models. *Xu, Yilei*, +, *TPAMI Aug. 2011 1681-1688*
- An Extended Grammar System for Learning and Recognizing Complex Visual Events. *Zhang, Zhang*, +, *TPAMI Feb. 2011 240-255*
- Bilayer Segmentation of Webcam Videos Using Tree-Based Classifiers. *Yin, Pei*, +, *TPAMI Jan. 2011 30-42*
- Connectedness of Random Walk Segmentation. *Cheng, Ming-Ming*, +, *TPAMI Jan. 2011 200-202*
- Hough Forests for Object Detection, Tracking, and Action Recognition. *Gall, Juergen*, +, *TPAMI Nov. 2011 2188-2202*
- Linear Scale and Rotation Invariant Matching. *Jiang, Hao*, +, *TPAMI July 2011 1339-1355*
- Multijourney Visual Focus of Attention from Head Pose and Meeting Contextual Cues. *Ba, Sileye O.*, +, *TPAMI Jan. 2011 101-116*
- Richardson-Lucy Deblurring for Scenes under a Projective Motion Path. *Tai, Yu-Wing*, +, *TPAMI Aug. 2011 1603-1618*
- Trajectory Learning for Activity Understanding: Unsupervised, Multilevel, and Long-Term Adaptive Approach. *Morris, Brendan Tran*, +, *TPAMI Nov. 2011 2287-2301*
- Trajectory Space: A Dual Representation for Nonrigid Structure from Motion. *Akhter, Ijaz*, +, *TPAMI July 2011 1442-1456*
- Image processing**
- Computational versus Psychophysical Bottom-Up Image Saliency: A Comparative Evaluation Study. *Toet, Alexander*, +, *TPAMI Nov. 2011 2131-2146*
- Flexible Depth of Field Photography. *Kuthirummal, Sujit*, +, *TPAMI Jan. 2011 58-71*
- Guest Editors' Introduction to the Special Section on Award-Winning Papers from the IEEE Conference on Computer Vision and Pattern Recognition 2009 (CVPR 2009). *Essa, Irfan*, +, *TPAMI Dec. 2011 2339-2340*
- Theory and Algorithms for Constructing Discrete Morse Complexes from Grayscale Digital Images. *Robins, Vanessa*, +, *TPAMI Aug. 2011 1646-1658*
- Unsupervised Organization of Image Collections: Taxonomies and Beyond. *Bart, Evgeniy*, +, *TPAMI Nov. 2011 2302-2315*
- Image recognition**
- An Extended Grammar System for Learning and Recognizing Complex Visual Events. *Zhang, Zhang*, +, *TPAMI Feb. 2011 240-255*
- CENTRIST: A Visual Descriptor for Scene Categorization. *Wu, Jianxin*, +, *TPAMI Aug. 2011 1489-1501*
- Multifeature-Based High-Resolution Palmprint Recognition. *Dai, Jifeng*, +, *TPAMI May 2011 945-957*
- Secure and Robust Iris Recognition Using Random Projections and Sparse Representations. *Pillai, Jaishanker K.*, +, *TPAMI Sept. 2011 1877-1893*
- Statistical Computations on Grassmann and Stiefel Manifolds for Image and Video-Based Recognition. *Turaga, Pavan*, +, *TPAMI Nov. 2011 2273-2286*
- Image reconstruction**
- 3D Face Reconstruction from a Single Image Using a Single Reference Face Shape. *Kemelmacher-Shlizerman, Ira*, +, *TPAMI Feb. 2011 394-405*
- A Prism-Mask System for Multispectral Video Acquisition. *Cao, Xun*, +, *TPAMI Dec. 2011 2423-2435*
- Coded Stroboscopic Photography: Compressive Sensing of High Speed Periodic Videos. *Veeraraghavan, Ashok*, +, *TPAMI April 2011 671-686*
- Decomposition of Complex Line Drawings with Hidden Lines for 3D Planar-Faced Manifold Object Reconstruction. *Liu, Jianzhuang*, +, *TPAMI Jan. 2011 3-15*
- Dense Mirroring Surface Recovery from 1D Homographies and Sparse Correspondences. *Rozenfeld, Stas*, +, *TPAMI Feb. 2011 325-337*
- Fingerprint Reconstruction: From Minutiae to Phase. *Feng, Jianjiang*, +, *TPAMI Feb. 2011 209-223*
- Linear Local Models for Monocular Reconstruction of Deformable Surfaces. *Salzmann, Mathieu*, +, *TPAMI May 2011 931-944*
- Multiview Stereo and Silhouette Consistency via Convex Functionals over Convex Domains. *Cremers, Daniel*, +, *TPAMI June 2011 1161-1174*
- Penrose Pixels for Super-Resolution. *Ben-Ezra, Moshe*, +, *TPAMI July 2011 1370-1383*
- Reconstructing 3D Face Model with Associated Expression Deformation from a Single Face Image via Constructing a Low-Dimensional Expression Deformation Manifold. *Wang, Shu-Fan*, +, *TPAMI Oct. 2011 2115-2121*
- Robust Multiscale Stereo Matching from Fundus Images with Radiometric Differences. *Tang, Li*, +, *TPAMI Nov. 2011 2245-2258*

Video Normals from Colored Lights. *Brostow, Gabriel J.*, +, *TPAMI Oct. 2011 2104-2114*

Image registration

Higher-Dimensional Affine Registration and Vision Applications. *Shahed, S M Nejhun*, +, *TPAMI July 2011 1324-1338*

Intensity-Based Image Registration by Nonparametric Local Smoothing. *Xing, Chen*, +, *TPAMI Oct. 2011 2081-2092*

Penalizing Closest Point Sharing for Automatic Free Form Shape Registration. *Liu, Yonghuai*, +, *TPAMI May 2011 1058-1064*

Rigid and Articulated Point Registration with Expectation Conditional Maximization. *Horaud, Radu*, +, *TPAMI March 2011 587-602*

Robust Point Set Registration Using Gaussian Mixture Models. *Jian, Bing*, +, *TPAMI Aug. 2011 1633-1645*

Video Registration Using Dynamic Textures. *Ravichandran, Avinash*, +, *TPAMI Jan. 2011 158-171*

Image representation

A New 3D-Matching Method of Nonrigid and Partially Similar Models Using Curve Analysis. *Tabia, Hedi*, +, *TPAMI April 2011 852-858*

Approximately Global Optimization for Robust Alignment of Generalized Shapes. *Li, Hongsheng*, +, *TPAMI June 2011 1116-1131*

Decomposition of Complex Line Drawings with Hidden Lines for 3D Planar-Faced Manifold Object Reconstruction. *Liu, Jianzhuang*, +, *TPAMI Jan. 2011 3-15*

Describable Visual Attributes for Face Verification and Image Search. *Kumar, Neeraj*, +, *TPAMI Oct. 2011 1962-1977*

Distance-Driven Skeletonization in Voxel Images. *Arcelli, Carlo*, +, *TPAMI April 2011 709-720*

Hashed Nonlocal Means for Rapid Image Filtering. *Dowson, Nicholas*, +, *TPAMI March 2011 485-499*

Hidden Part Models for Human Action Recognition: Probabilistic versus Max Margin. *Wang, Yang*, +, *TPAMI July 2011 1310-1323*

Layered Graphical Models for Tracking Partially Occluded Objects. *Ablavsky, Vitaly*, +, *TPAMI Sept. 2011 1758-1775*

Maximum Correntropy Criterion for Robust Face Recognition. *He, Ran*, +, *TPAMI Aug. 2011 1561-1576*

Tiny Videos: A Large Data Set for Nonparametric Video Retrieval and Frame Classification. *Karpenko, Alexandre*, +, *TPAMI March 2011 618-630*

Image resolution

Estimation of Alpha Mattes for Multiple Image Layers. *Singaraju, Dheeraj*, +, *TPAMI July 2011 1295-1309*

Motion Regularization for Matting Motion Blurred Objects. *Lin, Hai Ting*, +, *TPAMI Nov. 2011 2329-2336*

Multifeature-Based High-Resolution Palmprint Recognition. *Dai, Jifeng*, +, *TPAMI May 2011 945-957*

Penrose Pixels for Super-Resolution. *Ben-Ezra, Moshe*, +, *TPAMI July 2011 1370-1383*

Robust Multiscale Stereo Matching from Fundus Images with Radiometric Differences. *Tang, Li*, +, *TPAMI Nov. 2011 2245-2258*

Space-Time Super-Resolution Using Graph-Cut Optimization. *Mudenagudi, Uma*, +, *TPAMI May 2011 995-1008*

Image restoration

Facial Deblur Inference Using Subspace Analysis for Recognition of Blurred Faces. *Nishiyama, Masashi*, +, *TPAMI April 2011 838-845*

Ray Projection for Recovering Projective Transformations and Illumination Changes. *Zhang, Yun*, +, *TPAMI March 2011 446-458*

Removal of Partial Occlusion from Single Images. *McCloskey, Scott*, +, *TPAMI March 2011 647-654*

Richardson-Lucy Deblurring for Scenes under a Projective Motion Path. *Tai, Yu-Wing*, +, *TPAMI Aug. 2011 1603-1618*

Single Image Haze Removal Using Dark Channel Prior. *He, Kaiming*, +, *TPAMI Dec. 2011 2341-2353*

Image retrieval

Describable Visual Attributes for Face Verification and Image Search. *Kumar, Neeraj*, +, *TPAMI Oct. 2011 1962-1977*

Meta-Recognition: The Theory and Practice of Recognition Score Analysis. *Scheirer, Walter J.*, +, *TPAMI Aug. 2011 1689-1695*

Product Quantization for Nearest Neighbor Search. *Jegou, Herve*, +, *TPAMI Jan. 2011 117-128*

Scalable Face Image Retrieval with Identity-Based Quantization and Multireference Reranking. *Wu, Zhong*, +, *TPAMI Oct. 2011 1991-2001*

Textual Query of Personal Photos Facilitated by Large-Scale Web Data. *Liu, Yiming*, +, *TPAMI May 2011 1022-1036*

Image sampling

Coded Strobing Photography: Compressive Sensing of High Speed Periodic Videos. *Veeraraghavan, Ashok*, +, *TPAMI April 2011 671-686*

Image segmentation

A Nonrigid Kernel-Based Framework for 2D-3D Pose Estimation and 2D Image Segmentation. *Sandhu, Romeil*, +, *TPAMI June 2011 1098-1115*

A Similarity Measure for Image and Volumetric Data Based on Hermann Weyl's Discrepancy. *Moser, Bernhard A.*, +, *TPAMI Nov. 2011 2321-2329*

A Tensor-Based Algorithm for High-Order Graph Matching. *Duchenne, Olivier*, +, *TPAMI Dec. 2011 2383-2395*

Applying Property Testing to an Image Partitioning Problem. *Kleiner, Igor*, +, *TPAMI Feb. 2011 256-265*

Bilayer Segmentation of Webcam Videos Using Tree-Based Classifiers. *Yin, Pei*, +, *TPAMI Jan. 2011 30-42*

Connectedness of Random Walk Segmentation. *Cheng, Ming-Ming*, +, *TPAMI Jan. 2011 200-202*

Contour Detection and Hierarchical Image Segmentation. *Arbelaez, Pablo*, +, *TPAMI May 2011 898-916*

Decoupled Active Contour (DAC) for Boundary Detection. *Mishra, Akshaya K.*, +, *TPAMI Feb. 2011 310-324*

Describing Reflectances for Color Segmentation Robust to Shadows, High-lights, and Textures. *Vazquez, Eduard*, +, *TPAMI May 2011 917-930*

Learning a Family of Detectors via Multiplicative Kernels. *Yuan, Quan*, +, *TPAMI March 2011 514-530*

Nonnegative Matrix Factorization with Earth Mover's Distance Metric for Image Analysis. *Sandler, Roman*, +, *TPAMI Aug. 2011 1590-1602*

Power Watershed: A Unifying Graph-Based Optimization Framework. *Couprrie, Camille*, +, *TPAMI July 2011 1384-1399*

Reading 1D Barcodes with Mobile Phones Using Deformable Templates. *Gallo, Orazio*, +, *TPAMI Sept. 2011 1834-1843*

Robust Bilayer Segmentation and Motion/Depth Estimation with a Hand-held Camera. *Zhang, Guofeng*, +, *TPAMI March 2011 603-617*

Secure and Robust Iris Recognition Using Random Projections and Sparse Representations. *Pillai, Jaishanker K.*, +, *TPAMI Sept. 2011 1877-1893*

Silhouette Segmentation in Multiple Views. *Lee, Wonwoo*, +, *TPAMI July 2011 1429-1441*

The Effect of Border Noise on the Performance of Projection-Based Page Segmentation Methods. *Shafait, Faisal*, +, *TPAMI April 2011 846-851*

Tracking with Occlusions via Graph Cuts. *Papadakis, Nicolas*, +, *TPAMI Jan. 2011 144-157*

Turbo Segmentation of Textured Images. *Lehmann, Frederic*, +, *TPAMI Jan. 2011 16-29*

Image sensors

A Component-Wise Analysis of Constructible Match Cost Functions for Global Stereoopsis. *Neilson, Daniel*, +, *TPAMI Nov. 2011 2147-2159*

A Fast Bilinear Structure from Motion Algorithm Using a Video Sequence and Inertial Sensors. *Ramachandran, Mahesh*, +, *TPAMI Jan. 2011 186-193*

Flexible Depth of Field Photography. *Kuthirummal, Sujit*, +, *TPAMI Jan. 2011 58-71*

Image sequences

A Fast Bilinear Structure from Motion Algorithm Using a Video Sequence and Inertial Sensors. *Ramachandran, Mahesh*, +, *TPAMI Jan. 2011 186-193*

Coded Strobing Photography: Compressive Sensing of High Speed Periodic Videos. *Veeraraghavan, Ashok*, +, *TPAMI April 2011 671-686*

Force Estimation and Prediction from Time-Varying Density Images. *Jagannathan, Srinivasan*, +, *TPAMI June 2011 1132-1146*

Hidden Part Models for Human Action Recognition: Probabilistic versus Max Margin. *Wang, Yang*, +, *TPAMI July 2011 1310-1323*

Large Displacement Optical Flow: Descriptor Matching in Variational Motion Estimation. *Brox, Thomas*, +, *TPAMI March 2011 500-513*

Learning a Family of Detectors via Multiplicative Kernels. *Yuan, Quan*, +, *TPAMI March 2011 514-530*

Learning to Detect a Salient Object. *Liu, Tie*, +, *TPAMI Feb. 2011 353-367*

Light-Efficient Photography. *Hasinoff, Samuel W.*, +, *TPAMI Nov. 2011 2203-2214*

Motion Field Estimation from Alternate Exposure Images. *Sellent, Anita*, +, *TPAMI Aug. 2011 1577-1589*

Overcoming Shadows in 3-Source Photometric Stereo. *Hernandez, Carlos*, +, *TPAMI Feb. 2011 419-426*

Robust Visual Tracking and Vehicle Classification via Sparse Representation. *Mei, Xue*, +, *TPAMI Nov. 2011 2259-2272*

Tracking with Occlusions via Graph Cuts. *Papadakis, Nicolas*, +, *TPAMI Jan. 2011 144-157*

Trajectory Space: A Dual Representation for Nonrigid Structure from Motion. *Akhter, Ijaz*, +, *TPAMI July 2011 1442-1456*

Video Normals from Colored Lights. *Brostow, Gabriel J.*, +, *TPAMI Oct. 2011 2104-2114*

Video Registration Using Dynamic Textures. *Ravichandran, Avinash*, +, *TPAMI Jan. 2011 158-171*

View-Independent Action Recognition from Temporal Self-Similarities. *Junejo, Imran N.*, +, *TPAMI Jan. 2011 172-185*

Image texture

A Physics-Based Analysis of Image Appearance Models. *Xu, Yilei*, +, *TPAMI Aug. 2011 1681-1688*

CENTRIST: A Visual Descriptor for Scene Categorization. *Wu, Jianxin*, +, *TPAMI Aug. 2011 1489-1501*

Color Constancy Using Natural Image Statistics and Scene Semantics. *Gijssen, Arjan*, +, *TPAMI April 2011 687-698*

Describing Reflectances for Color Segmentation Robust to Shadows, Highlights, and Textures. *Vazquez, Eduard*, +, *TPAMI May 2011 917-930*

Estimation of Alpha Mattes for Multiple Image Layers. *Singaraju, Dheeraj*, +, *TPAMI July 2011 1295-1309*

Modeling Bidirectional Texture Functions with Multivariate Spherical Radial Basis Functions. *Tsai, Yu-Ting*, +, *TPAMI July 2011 1356-1369*

Nonnegative Matrix Factorization with Earth Mover's Distance Metric for Image Analysis. *Sandler, Roman*, +, *TPAMI Aug. 2011 1590-1602*

Robust Multiscale Stereo Matching from Fundus Images with Radiometric Differences. *Tang, Li*, +, *TPAMI Nov. 2011 2245-2258*

Shadow Removal Using Intensity Surfaces and Texture Anchor Points. *Arbel, Eli*, +, *TPAMI June 2011 1202-1216*

Turbo Segmentation of Textured Images. *Lehmann, Frederic*, +, *TPAMI Jan. 2011 16-29*

Video Registration Using Dynamic Textures. *Ravichandran, Avinash*, +, *TPAMI Jan. 2011 158-171*

Image thinning

A Laplacian Approach to Multi-Oriented Text Detection in Video. *Shivakumara, Palaiahnakote*, +, *TPAMI Feb. 2011 412-419*

Indexing

Product Quantization for Nearest Neighbor Search. *Jegou, Herve*, +, *TPAMI Jan. 2011 117-128*

Scalable Face Image Retrieval with Identity-Based Quantization and Multireference Reranking. *Wu, Zhong*, +, *TPAMI Oct. 2011 1991-2001*

Inference algorithms

Causal Inference on Discrete Data Using Additive Noise Models. *Peters, Jonas*, +, *TPAMI Dec. 2011 2436-2450*

Fast Inference with Min-Sum Matrix Product. *Felzenszwalb, Pedro F.*, +, *TPAMI Dec. 2011 2549-2554*

Inference mechanisms

Bayesian Estimation of Beta Mixture Models with Variational Inference. *Ma, Zhanyu*, +, *TPAMI Nov. 2011 2160-2173*

Facial Deblur Inference Using Subspace Analysis for Recognition of Blurred Faces. *Nishiyama, Masashi*, +, *TPAMI April 2011 838-845*

Information filtering

A Hybrid Probabilistic Model for Unified Collaborative and Content-Based Image Tagging. *Zhou, Ning*, +, *TPAMI July 2011 1281-1294*

Hyperconnected Attribute Filters Based on k-Flat Zones. *Ouzounis, Georgios K.*, +, *TPAMI Feb. 2011 224-239*

Information filters

Hyperconnected Attribute Filters Based on k-Flat Zones. *Ouzounis, Georgios K.*, +, *TPAMI Feb. 2011 224-239*

Information retrieval

A Variance Minimization Criterion to Feature Selection Using Laplacian Regularization. *He, Xiaofei*, +, *TPAMI Oct. 2011 2013-2025*

Integer programming

Light-Efficient Photography. *Hasinoff, Samuel W.*, +, *TPAMI Nov. 2011 2203-2214*

Internet

Harvesting Image Databases from the Web. *Schroff, F.*, +, *TPAMI April 2011 754-766*

Textual Query of Personal Photos Facilitated by Large-Scale Web Data. *Liu, Yiming*, +, *TPAMI May 2011 1022-1036*

Interpolation

Dense Mirroring Surface Recovery from 1D Homographies and Sparse Correspondences. *Rozenfeld, Stas*, +, *TPAMI Feb. 2011 325-337*

Hashed Nonlocal Means for Rapid Image Filtering. *Dowson, Nicholas*, +, *TPAMI March 2011 485-499*

Local Distance Functions: A Taxonomy, New Algorithms, and an Evaluation. *Ramanan, Deva*, +, *TPAMI April 2011 794-806*

Simplified Computation for Nonparametric Windows Method of Probability Density Function Estimation. *Joshi, Niranjan*, +, *TPAMI Aug. 2011 1673-1680*

Inverse problems

On the Duality of Forward and Inverse Light Transport. *Chandraker, Manmohan*, +, *TPAMI Oct. 2011 2122-2128*

Iris recognition

Eye Movement Analysis for Activity Recognition Using Electrooculography. *Bulling, Andreas*, +, *TPAMI April 2011 741-753*

Improved Iris Recognition through Fusion of Hamming Distance and Fragile Bit Distance. *Hollingsworth, Karen P.*, +, *TPAMI Dec. 2011 2465-2476*

Iris Matching Based on Personalized Weight Map. *Dong, Wenbo*, +, *TPAMI Sept. 2011 1744-1757*

Secure and Robust Iris Recognition Using Random Projections and Sparse Representations. *Pillai, Jaishanker K.*, +, *TPAMI Sept. 2011 1877-1893*

Iterative methods

Maximum Correntropy Criterion for Robust Face Recognition. *He, Ran*, +, *TPAMI Aug. 2011 1561-1576*

MILIS: Multiple Instance Learning with Instance Selection. *Fu, Zhouyu*, +, *TPAMI May 2011 958-977*

Robust Point Set Registration Using Gaussian Mixture Models. *Jian, Bing*, +, *TPAMI Aug. 2011 1633-1645*

L

Labeling

C⁴: Exploring Multiple Solutions in Graphical Models by Cluster Sampling. *Porway, Jacob*, +, *TPAMI Sept. 2011 1713-1727*

Nonparametric Scene Parsing via Label Transfer. *Liu, Ce*, +, *TPAMI Dec. 2011 2368-2382*

Laplace transforms

A Laplacian Approach to Multi-Oriented Text Detection in Video. *Shivakumara, Palaiahnakote*, +, *TPAMI Feb. 2011 412-419*

Learning (artificial intelligence)

A Nonrigid Kernel-Based Framework for 2D-3D Pose Estimation and 2D Image Segmentation. *Sandhu, Romeil*, +, *TPAMI June 2011 1098-1115*

Accuracy of Pseudo-Inverse Covariance Learning—A Random Matrix Theory Analysis. *Hoyle, David C.*, +, *TPAMI July 2011 1470-1481*

Active Learning Based on Locally Linear Reconstruction. *Zhang, Lijun*, +, *TPAMI Oct. 2011 2026-2038*

An Extended Grammar System for Learning and Recognizing Complex Visual Events. *Zhang, Zhang*, +, *TPAMI Feb. 2011 240-255*

Approximate Nearest Subspace Search. *Basri, Ronen*, +, *TPAMI Feb. 2011 266-278*

Bilayer Segmentation of Webcam Videos Using Tree-Based Classifiers. *Yin, Pei*, +, *TPAMI Jan. 2011 30-42*

Cost-Sensitive Boosting. *Masnadi-Shirazi, Hamed*, +, *TPAMI Feb. 2011 294-309*

Discriminative Learning of Local Image Descriptors. *Brown, Matthew*, +, *TPAMI Jan. 2011 43-57*

Feature Selection and Kernel Learning for Local Learning-Based Clustering. *Zeng, Hong*, +, *TPAMI Aug. 2011 1532-1547*

Hough Forests for Object Detection, Tracking, and Action Recognition. *Gall, Juergen*, +, *TPAMI Nov. 2011 2188-2202*

Improving Offline Handwritten Text Recognition with Hybrid HMM/ANN Models. *Espana-Boquera, S.*, +, *TPAMI April 2011 767-779*

Learning a Family of Detectors via Multiplicative Kernels. *Yuan, Quan*, +, *TPAMI March 2011 514-530*

MILIS: Multiple Instance Learning with Instance Selection. *Fu, Zhouyu*, +, *TPAMI May 2011 958-977*

Multiple Kernel Learning for Dimensionality Reduction. *Lin, Yen-Yu*, +, *TPAMI June 2011 1147-1160*

Nonconvex Online Support Vector Machines. *Ertekin, Seyda*, +, *TPAMI Feb. 2011 368-381*

Robust Object Tracking with Online Multiple Instance Learning. *Babenko, Boris*, +, *TPAMI Aug. 2011 1619-1632*

Self-Adaptive Induction of Regression Trees. *Fidalgo-Merino, Raul*, +, *TPAMI Aug. 2011 1659-1672*

Semi-Supervised Learning via Regularized Boosting Working on Multiple Semi-Supervised Assumptions. *Chen, Ke*, +, *TPAMI Jan. 2011 129-143*

- The Effect of Model Misspecification on Semi-Supervised Classification. *Yang, Ting*, +, *TPAMI Oct. 2011 2093-2103*
- The Fisher-Markov Selector: Fast Selecting Maximally Separable Feature Subset for Multiclass Classification with Applications to High-Dimensional Data. *Cheng, Qiang*, +, *TPAMI June 2011 1217-1233*
- View-Independent Action Recognition from Temporal Self-Similarities. *Junejo, Imran N.*, +, *TPAMI Jan. 2011 172-185*
- Least squares approximations**
- A Variance Minimization Criterion to Feature Selection Using Laplacian Regularization. *He, Xiaofei*, +, *TPAMI Oct. 2011 2013-2025*
- Canonical Correlation Analysis for Multilabel Classification: A Least-Squares Formulation, Extensions, and Analysis. *Sun, Liang*, +, *TPAMI Jan. 2011 194-200*
- Intensity-Based Image Registration by Nonparametric Local Smoothing. *Xing, Chen*, +, *TPAMI Oct. 2011 2081-2092*
- Linearized Motion Estimation for Articulated Planes. *Datta, Ankur*, +, *TPAMI April 2011 780-793*
- Maximum Correntropy Criterion for Robust Face Recognition. *He, Ran*, +, *TPAMI Aug. 2011 1561-1576*
- Penalizing Closest Point Sharing for Automatic Free Form Shape Registration. *Liu, Yonghuai*, +, *TPAMI May 2011 1058-1064*
- Robust Visual Tracking and Vehicle Classification via Sparse Representation. *Mei, Xue*, +, *TPAMI Nov. 2011 2259-2272*
- Vehicle Detection Using Partial Least Squares. *Kembhavi, Aniruddha*, +, *TPAMI June 2011 1250-1265*
- Lenses**
- Flexible Depth of Field Photography. *Kuthirummal, Sujit*, +, *TPAMI Jan. 2011 58-71*
- Level set**
- Statistical 3D Shape Analysis by Local Generative Descriptors. *Castellani, Umberto*, +, *TPAMI Dec. 2011 2555-2560*
- Lighting**
- On the Duality of Forward and Inverse Light Transport. *Chandraker, Manmohan*, +, *TPAMI Oct. 2011 2122-2128*
- Statistical Change Detection by the Pool Adjacent Violators Algorithm. *Lanza, Alessandro*, +, *TPAMI Sept. 2011 1894-1910*
- The Geometry of Reflectance Symmetries. *Tan, Ping*, +, *TPAMI Dec. 2011 2506-2520*
- Linear programming**
- Human Pose Estimation Using Consistent Max Covering. *Jiang, Hao*, +, *TPAMI Sept. 2011 1911-1918*
- Multiple Object Tracking Using K-Shortest Paths Optimization. *Berclaz, Jerome*, +, *TPAMI Sept. 2011 1806-1819*
- Nonnegative Matrix Factorization with Earth Mover's Distance Metric for Image Analysis. *Sandler, Roman*, +, *TPAMI Aug. 2011 1590-1602*
- Robust Facial Feature Tracking Using Shape-Constrained Multiresolution-Selected Linear Predictors. *Ong, Eng-Jon*, +, *TPAMI Sept. 2011 1844-1859*
- Loss measurement**
- Shape-Based Online Multitarget Tracking and Detection for Targets Causing Multiple Measurements: Variational Bayesian Clustering and Lossless Data Association. *De Laet, Tinne*, +, *TPAMI Dec. 2011 2477-2491*
- M**
- Manifolds**
- Optimization in Differentiable Manifolds in Order to Determine the Method of Construction of Prehistoric Wall Paintings. *Arabadjis, Dimitris*, +, *TPAMI Nov. 2011 2229-2244*
- Markov processes**
- C⁴: Exploring Multiple Solutions in Graphical Models by Cluster Sampling. *Porway, Jacob*, +, *TPAMI Sept. 2011 1713-1727*
- Causal Inference on Discrete Data Using Additive Noise Models. *Peters, Jonas*, +, *TPAMI Dec. 2011 2436-2450*
- Energy Normalization for Pose-Invariant Face Recognition Based on MRF Model Image Matching. *Rahimzadeh Arashloo, Shervin*, +, *TPAMI June 2011 1274-1280*
- MRF Energy Minimization and Beyond via Dual Decomposition. *Komodakis, Nikos*, +, *TPAMI March 2011 531-552*
- Nonparametric Scene Parsing via Label Transfer. *Liu, Ce*, +, *TPAMI Dec. 2011 2368-2382*
- Space-Time Super-Resolution Using Graph-Cut Optimization. *Mudenagudi, Uma*, +, *TPAMI May 2011 995-1008*
- Statistical 3D Shape Analysis by Local Generative Descriptors. *Castellani, Umberto*, +, *TPAMI Dec. 2011 2555-2560*
- The Fisher-Markov Selector: Fast Selecting Maximally Separable Feature Subset for Multiclass Classification with Applications to High-Dimensional Data. *Cheng, Qiang*, +, *TPAMI June 2011 1217-1233*
- Transformation of General Binary MRF Minimization to the First-Order Case. *Ishikawa, Hiroshi*, +, *TPAMI June 2011 1234-1249*
- Mathematical model**
- A Minimal Solution to Radial Distortion Autocalibration. *Kukelova, Zuzana*, +, *TPAMI Dec. 2011 2410-2422*
- Causal Inference on Discrete Data Using Additive Noise Models. *Peters, Jonas*, +, *TPAMI Dec. 2011 2436-2450*
- Matrix algebra**
- Action Recognition from One Example. *Seo, Hae Jong*, +, *TPAMI May 2011 867-882*
- Dense Mirroring Surface Recovery from 1D Homographies and Sparse Correspondences. *Rozenfeld, Stas*, +, *TPAMI Feb. 2011 325-337*
- Matrix decomposition**
- A Hybrid Probabilistic Model for Unified Collaborative and Content-Based Image Tagging. *Zhou, Ning*, +, *TPAMI July 2011 1281-1294*
- Computing Smooth Time Trajectories for Camera and Deformable Shape in Structure from Motion with Occlusion. *Gotardo, Paulo F.U.*, +, *TPAMI Oct. 2011 2051-2065*
- Graph Regularized Nonnegative Matrix Factorization for Data Representation. *Cai, Deng*, +, *TPAMI Aug. 2011 1548-1560*
- Nonnegative Matrix Factorization with Earth Mover's Distance Metric for Image Analysis. *Sandler, Roman*, +, *TPAMI Aug. 2011 1590-1602*
- Maximum likelihood estimation**
- Bilayer Segmentation of Webcam Videos Using Tree-Based Classifiers. *Yin, Pei*, +, *TPAMI Jan. 2011 30-42*
- Maximal Linear Embedding for Dimensionality Reduction. *Wang, Ruiping*, +, *TPAMI Sept. 2011 1776-1792*
- Statistical Computations on Grassmann and Stiefel Manifolds for Image and Video-Based Recognition. *Turaga, Pavan*, +, *TPAMI Nov. 2011 2273-2286*
- The Effect of Model Misspecification on Semi-Supervised Classification. *Yang, Ting*, +, *TPAMI Oct. 2011 2093-2103*
- Trajectory Learning for Activity Understanding: Unsupervised, Multilevel, and Long-Term Adaptive Approach. *Morris, Brendan Tran*, +, *TPAMI Nov. 2011 2287-2301*
- Medical image processing**
- Robust Multiscale Stereo Matching from Fundus Images with Radiometric Differences. *Tang, Li*, +, *TPAMI Nov. 2011 2245-2258*
- Medical signal processing**
- Convolutional Neural Networks for P300 Detection with Application to Brain-Computer Interfaces. *Cecotti, Hubert*, +, *TPAMI March 2011 433-445*
- Eye Movement Analysis for Activity Recognition Using Electrooculography. *Bulling, Andreas*, +, *TPAMI April 2011 741-753*
- Mesh generation**
- Construction of Iso-Contours, Bisectors, and Voronoi Diagrams on Triangulated Surfaces. *Liu, Yong-Jin*, +, *TPAMI Aug. 2011 1502-1517*
- Efficient 3D Geometric and Zernike Moments Computation from Unstructured Surface Meshes. *Pozo, J. M.*, +, *TPAMI March 2011 471-484*
- Topology-Adaptive Mesh Deformation for Surface Evolution, Morphing, and Multiview Reconstruction. *Zaharescu, Andrei*, +, *TPAMI April 2011 823-837*
- Meta data**
- Harvesting Image Databases from the Web. *Schroff, F.*, +, *TPAMI April 2011 754-766*
- Microactuators**
- Flexible Depth of Field Photography. *Kuthirummal, Sujit*, +, *TPAMI Jan. 2011 58-71*
- Minimax techniques**
- Intensity-Based Image Registration by Nonparametric Local Smoothing. *Xing, Chen*, +, *TPAMI Oct. 2011 2081-2092*
- Max-Min Distance Analysis by Using Sequential SDP Relaxation for Dimension Reduction. *Bian, Wei*, +, *TPAMI May 2011 1037-1050*
- Minimization**
- A Variance Minimization Criterion to Feature Selection Using Laplacian Regularization. *He, Xiaofei*, +, *TPAMI Oct. 2011 2013-2025*

Cost-Sensitive Boosting. *Masnadi-Shirazi, Hamed, +, TPAMI Feb. 2011 294-309*

Mobile robots

Automatic Relocalization and Loop Closing for Real-Time Monocular SLAM. *Williams, Brian, +, TPAMI Sept. 2011 1699-1712*

Monte Carlo methods

C⁴: Exploring Multiple Solutions in Graphical Models by Cluster Sampling. *Porway, Jacob, +, TPAMI Sept. 2011 1713-1727*

On the Duality of Forward and Inverse Light Transport. *Chandraker, Manmohan, +, TPAMI Oct. 2011 2122-2128*

Motion analysis

Online Multiperson Tracking-by-Detection from a Single, Uncalibrated Camera. *Breitenstein, Michael D., +, TPAMI Sept. 2011 1820-1833*

Understanding Blind Deconvolution Algorithms. *Levin, Anat, +, TPAMI Dec. 2011 2354-2367*

Motion estimation

A Fast Bilinear Structure from Motion Algorithm Using a Video Sequence and Inertial Sensors. *Ramachandran, Mahesh, +, TPAMI Jan. 2011 186-193*

Computing Smooth Time Trajectories for Camera and Deformable Shape in Structure from Motion with Occlusion. *Gotardo, Paulo F.U., +, TPAMI Oct. 2011 2051-2065*

Force Estimation and Prediction from Time-Varying Density Images. *Jagannathan, Srinivasan, +, TPAMI June 2011 1132-1146*

Large Displacement Optical Flow: Descriptor Matching in Variational Motion Estimation. *Brox, Thomas, +, TPAMI March 2011 500-513*

Linearized Motion Estimation for Articulated Planes. *Datta, Ankur, +, TPAMI April 2011 780-793*

Motion Field Estimation from Alternate Exposure Images. *Sellent, Anita, +, TPAMI Aug. 2011 1577-1589*

Motion Regularization for Matting Motion Blurred Objects. *Lin, Hai Ting, +, TPAMI Nov. 2011 2329-2336*

Robust Bilayer Segmentation and Motion/Depth Estimation with a Hand-held Camera. *Zhang, Guofeng, +, TPAMI March 2011 603-617*

Multilayer perceptrons

Improving Offline Handwritten Text Recognition with Hybrid HMM/ANN Models. *Espana-Boquera, S., +, TPAMI April 2011 767-779*

Selecting Critical Patterns Based on Local Geometrical and Statistical Information. *Li, Yuhua, +, TPAMI June 2011 1189-1201*

Mutual information

Discriminative Video Pattern Search for Efficient Action Detection. *Yuan, Junsong, +, TPAMI Sept. 2011 1728-1743*

N

Natural language processing

Dynamic and Contextual Information in HMM Modeling for Handwritten Word Recognition. *Bianne-Bernard, Anne-Laure, +, TPAMI Oct. 2011 2066-2080*

Navigation

Direct Method for Video-Based Navigation Using a Digital Terrain Map. *Lerner, Ronen, +, TPAMI Feb. 2011 406-411*

Nearest neighbor searches

Specificity: A Graph-Based Estimator of Divergence. *Twining, Carole J., +, TPAMI Dec. 2011 2492-2505*

Neural nets

Convolutional Neural Networks for P300 Detection with Application to Brain-Computer Interfaces. *Cecotti, Hubert, +, TPAMI March 2011 433-445*

Noise measurement

Overcoming Shadows in 3-Source Photometric Stereo. *Hernandez, Carlos, +, TPAMI Feb. 2011 419-426*

Robust Visual Tracking and Vehicle Classification via Sparse Representation. *Mei, Xue, +, TPAMI Nov. 2011 2259-2272*

Robustly Aligning a Shape Model and Its Application to Car Alignment of Unknown Pose. *Li, Yan, +, TPAMI Sept. 2011 1860-1876*

Statistical Change Detection by the Pool Adjacent Violators Algorithm. *Lanza, Alessandro, +, TPAMI Sept. 2011 1894-1910*

Nonlinear distortion

A Minimal Solution to Radial Distortion Autocalibration. *Kukelova, Zuzana, +, TPAMI Dec. 2011 2410-2422*

A Prism-Mask System for Multispectral Video Acquisition. *Cao, Xun, +, TPAMI Dec. 2011 2423-2435*

+ Check author entry for coauthors

O

Object detection

A Laplacian Approach to Multi-Oriented Text Detection in Video. *Shivakumara, Palaiiahnakote, +, TPAMI Feb. 2011 412-419*

Contour Detection and Hierarchical Image Segmentation. *Arbelaez, Pablo, +, TPAMI May 2011 898-916*

Decoupled Active Contour (DAC) for Boundary Detection. *Mishra, Akshaya K., +, TPAMI Feb. 2011 310-324*

Dynamic Processing Allocation in Video. *Chen, Daozheng, +, TPAMI Nov. 2011 2174-2187*

Hough Forests for Object Detection, Tracking, and Action Recognition. *Gall, Juergen, +, TPAMI Nov. 2011 2188-2202*

Human Pose Estimation Using Consistent Max Covering. *Jiang, Hao, +, TPAMI Sept. 2011 1911-1918*

Hyperconnected Attribute Filters Based on k-Flat Zones. *Ouzounis, Georgios K., +, TPAMI Feb. 2011 224-239*

Learning a Family of Detectors via Multiplicative Kernels. *Yuan, Quan, +, TPAMI March 2011 514-530*

Learning to Detect a Salient Object. *Liu, Tie, +, TPAMI Feb. 2011 353-367*

Multiple Object Tracking Using K-Shortest Paths Optimization. *Berclaz, Jerome, +, TPAMI Sept. 2011 1806-1819*

Online Multiperson Tracking-by-Detection from a Single, Uncalibrated Camera. *Breitenstein, Michael D., +, TPAMI Sept. 2011 1820-1833*

Statistical Change Detection by the Pool Adjacent Violators Algorithm. *Lanza, Alessandro, +, TPAMI Sept. 2011 1894-1910*

Object recognition

Bilayer Segmentation of Webcam Videos Using Tree-Based Classifiers. *Yin, Pei, +, TPAMI Jan. 2011 30-42*

Context-Dependent Kernels for Object Classification. *Sahbi, Hichem, +, TPAMI April 2011 699-708*

Decomposition of Complex Line Drawings with Hidden Lines for 3D Planar-Faced Manifold Object Reconstruction. *Liu, Jianzhuang, +, TPAMI Jan. 2011 3-15*

Hidden Part Models for Human Action Recognition: Probabilistic versus Max Margin. *Wang, Yang, +, TPAMI July 2011 1310-1323*

Local Distance Functions: A Taxonomy, New Algorithms, and an Evaluation. *Ramanan, Deva, +, TPAMI April 2011 794-806*

Meta-Recognition: The Theory and Practice of Recognition Score Analysis. *Scheirer, Walter J., +, TPAMI Aug. 2011 1689-1695*

Multiple Kernel Learning for Dimensionality Reduction. *Lin, Yen-Yu, +, TPAMI June 2011 1147-1160*

Nonparametric Scene Parsing via Label Transfer. *Liu, Ce, +, TPAMI Dec. 2011 2368-2382*

Object tracking

Hough Forests for Object Detection, Tracking, and Action Recognition. *Gall, Juergen, +, TPAMI Nov. 2011 2188-2202*

Robust Object Tracking with Online Multiple Instance Learning. *Babenko, Boris, +, TPAMI Aug. 2011 1619-1632*

Vehicle Surveillance with a Generic, Adaptive, 3D Vehicle Model. *Leotta, Matthew J., +, TPAMI July 2011 1457-1469*

Optical images

Flexible Depth of Field Photography. *Kuthirummal, Sujit, +, TPAMI Jan. 2011 58-71*

Optical sensors

A Prism-Mask System for Multispectral Video Acquisition. *Cao, Xun, +, TPAMI Dec. 2011 2423-2435*

Optimization

A Nonrigid Kernel-Based Framework for 2D-3D Pose Estimation and 2D Image Segmentation. *Sandhu, Romeil, +, TPAMI June 2011 1098-1115*

Dynamic Refraction Stereo. *Morris, Nigel J. W., +, TPAMI Aug. 2011 1518-1531*

Estimation of Alpha Mattes for Multiple Image Layers. *Singaraju, Dheeraj, +, TPAMI July 2011 1295-1309*

Human Pose Estimation Using Consistent Max Covering. *Jiang, Hao, +, TPAMI Sept. 2011 1911-1918*

Kernel Optimization in Discriminant Analysis. *You, Di, +, TPAMI March 2011 631-638*

Linear Local Models for Monocular Reconstruction of Deformable Surfaces. *Salzmann, Mathieu, +, TPAMI May 2011 931-944*

Maximum Correntropy Criterion for Robust Face Recognition. *He, Ran, +, TPAMI Aug. 2011 1561-1576*

Model-Based 3D Hand Pose Estimation from Monocular Video. *de La Gorce, Martin, +, TPAMI Sept. 2011 1793-1805*

Multiple Object Tracking Using K-Shortest Paths Optimization. *Berclaz, Jerome*, +, *TPAMI Sept. 2011 1806-1819*

MRF Energy Minimization and Beyond via Dual Decomposition. *Komodakis, Nikos*, +, *TPAMI March 2011 531-552*

Multiview Stereo and Silhouette Consistency via Convex Functionals over Convex Domains. *Cremers, Daniel*, +, *TPAMI June 2011 1161-1174*

Optimization in Differentiable Manifolds in Order to Determine the Method of Construction of Prehistoric Wall Paintings. *Arabadjis, Dimitris*, +, *TPAMI Nov. 2011 2229-2244*

Power Watershed: A Unifying Graph-Based Optimization Framework. *Coupric, Camille*, +, *TPAMI July 2011 1384-1399*

Robust Bilayer Segmentation and Motion/Depth Estimation with a Hand-held Camera. *Zhang, Guofeng*, +, *TPAMI March 2011 603-617*

Semi-Supervised Learning via Regularized Boosting Working on Multiple Semi-Supervised Assumptions. *Chen, Ke*, +, *TPAMI Jan. 2011 129-143*

Space-Time Super-Resolution Using Graph-Cut Optimization. *Mudenagudi, Uma*, +, *TPAMI May 2011 995-1008*

The Fisher-Markov Selector: Fast Selecting Maximally Separable Feature Subset for Multiclass Classification with Applications to High-Dimensional Data. *Cheng, Qiang*, +, *TPAMI June 2011 1217-1233*

P

Paintings

Optimization in Differentiable Manifolds in Order to Determine the Method of Construction of Prehistoric Wall Paintings. *Arabadjis, Dimitris*, +, *TPAMI Nov. 2011 2229-2244*

Parallel algorithms

Parallel Spectral Clustering in Distributed Systems. *Chen, Wen-Yen*, +, *TPAMI March 2011 568-586*

Parameter estimation

Bayesian Estimation of Beta Mixture Models with Variational Inference. *Ma, Zhanyu*, +, *TPAMI Nov. 2011 2160-2173*

Particle filtering (numerical methods)

Robust Visual Tracking and Vehicle Classification via Sparse Representation. *Mei, Xue*, +, *TPAMI Nov. 2011 2259-2272*

Particle swarm optimization

Approximately Global Optimization for Robust Alignment of Generalized Shapes. *Li, Hongsheng*, +, *TPAMI June 2011 1116-1131*

Partitioning algorithms

A Link-Based Approach to the Cluster Ensemble Problem. *Iam-On, Natthakan*, +, *TPAMI Dec. 2011 2396-2409*

Pattern analysis

Layered Graphical Models for Tracking Partially Occluded Objects. *Ablavsky, Vitaly*, +, *TPAMI Sept. 2011 1758-1775*

Pattern classification

A Variance Minimization Criterion to Feature Selection Using Laplacian Regularization. *He, Xiaofei*, +, *TPAMI Oct. 2011 2013-2025*

Canonical Correlation Analysis for Multilabel Classification: A Least-Squares Formulation, Extensions, and Analysis. *Sun, Liang*, +, *TPAMI Jan. 2011 194-200*

Compactly Supported Basis Functions as Support Vector Kernels for Classification. *Wittek, Peter*, +, *TPAMI Oct. 2011 2039-2050*

Cost-Sensitive Boosting. *Masnadi-Shirazi, Hamed*, +, *TPAMI Feb. 2011 294-309*

Discriminative Learning of Local Image Descriptors. *Brown, Matthew*, +, *TPAMI Jan. 2011 43-57*

Kernel Optimization in Discriminant Analysis. *You, Di*, +, *TPAMI March 2011 631-638*

Max-Min Distance Analysis by Using Sequential SDP Relaxation for Dimension Reduction. *Bian, Wei*, +, *TPAMI May 2011 1037-1050*

Maximum Correntropy Criterion for Robust Face Recognition. *He, Ran*, +, *TPAMI Aug. 2011 1561-1576*

On Kleinberg's Stochastic Discrimination Procedure. *Irle, Albrecht*, +, *TPAMI July 2011 1482-1486*

Selecting Critical Patterns Based on Local Geometrical and Statistical Information. *Li, Yuhua*, +, *TPAMI June 2011 1189-1201*

Semi-Supervised Learning via Regularized Boosting Working on Multiple Semi-Supervised Assumptions. *Chen, Ke*, +, *TPAMI Jan. 2011 129-143*

The Effect of Model Misspecification on Semi-Supervised Classification. *Yang, Ting*, +, *TPAMI Oct. 2011 2093-2103*

The Fisher-Markov Selector: Fast Selecting Maximally Separable Feature Subset for Multiclass Classification with Applications to High-Dimensional Data. *Cheng, Qiang*, +, *TPAMI June 2011 1217-1233*

Pattern clustering

A Laplacian Approach to Multi-Oriented Text Detection in Video. *Shivakumara, Palaiahnakote*, +, *TPAMI Feb. 2011 412-419*

A Variance Minimization Criterion to Feature Selection Using Laplacian Regularization. *He, Xiaofei*, +, *TPAMI Oct. 2011 2013-2025*

Contour Detection and Hierarchical Image Segmentation. *Arbelaez, Pablo*, +, *TPAMI May 2011 898-916*

Dynamic and Contextual Information in HMM Modeling for Handwritten Word Recognition. *Bianne-Bernard, Anne-Laure*, +, *TPAMI Oct. 2011 2066-2080*

Feature Selection and Kernel Learning for Local Learning-Based Clustering. *Zeng, Hong*, +, *TPAMI Aug. 2011 1532-1547*

Greedy Learning of Binary Latent Trees. *Harmeling, Stefan*, +, *TPAMI June 2011 1087-1097*

Multiple Kernel Learning for Dimensionality Reduction. *Lin, Yen-Yu*, +, *TPAMI June 2011 1147-1160*

Optimization in Differentiable Manifolds in Order to Determine the Method of Construction of Prehistoric Wall Paintings. *Arabadjis, Dimitris*, +, *TPAMI Nov. 2011 2229-2244*

Parallel Spectral Clustering in Distributed Systems. *Chen, Wen-Yen*, +, *TPAMI March 2011 568-586*

Tiny Videos: A Large Data Set for Nonparametric Video Retrieval and Frame Classification. *Karpenko, Alexandre*, +, *TPAMI March 2011 618-630*

Unsupervised Image Categorization by Hypergraph Partition. *Huang, Yuchi*, +, *TPAMI June 2011 1266-1273*

Pattern matching

Discriminative Video Pattern Search for Efficient Action Detection. *Yuan, Junsong*, +, *TPAMI Sept. 2011 1728-1743*

Topology Preserving Relaxation Labeling for Nonrigid Point Matching. *Lee, Jong-Ha*, +, *TPAMI Feb. 2011 427-432*

Pattern recognition

Dynamic Refraction Stereo. *Morris, Nigel J. W.*, +, *TPAMI Aug. 2011 1518-1531*

Guest Editors' Introduction to the Special Section on Award-Winning Papers from the IEEE Conference on Computer Vision and Pattern Recognition 2009 (CVPR 2009). *Essa, Irfan*, +, *TPAMI Dec. 2011 2339-2340*

Photographic lenses

Light-Efficient Photography. *Hasinoff, Samuel W.*, +, *TPAMI Nov. 2011 2203-2214*

Photography

Flexible Depth of Field Photography. *Kuthirummal, Sujit*, +, *TPAMI Jan. 2011 58-71*

Light-Efficient Photography. *Hasinoff, Samuel W.*, +, *TPAMI Nov. 2011 2203-2214*

Photometry

The Geometry of Reflectance Symmetries. *Tan, Ping*, +, *TPAMI Dec. 2011 2506-2520*

Pose estimation

A Nonrigid Kernel-Based Framework for 2D-3D Pose Estimation and 2D Image Segmentation. *Sandhu, Romeil*, +, *TPAMI June 2011 1098-1115*

Direct Method for Video-Based Navigation Using a Digital Terrain Map. *Lerner, Ronen*, +, *TPAMI Feb. 2011 406-411*

Face Recognition Using Nearest Feature Space Embedding. *Chen, Yin-Nong*, +, *TPAMI June 2011 1073-1086*

Learning a Family of Detectors via Multiplicative Kernels. *Yuan, Quan*, +, *TPAMI March 2011 514-530*

Multiperson Visual Focus of Attention from Head Pose and Meeting Contextual Cues. *Ba, Sileye O.*, +, *TPAMI Jan. 2011 101-116*

Non-Lambertian Reflectance Modeling and Shape Recovery of Faces Using Tensor Splines. *Kumar, Ritwik*, +, *TPAMI March 2011 533-567*

Shape Analysis of Elastic Curves in Euclidean Spaces. *Srivastava, Anuj*, +, *TPAMI July 2011 1415-1428*

Unconstrained Pose-Invariant Face Recognition Using 3D Generic Elastic Models. *Prabhu, Utsav*, +, *TPAMI Oct. 2011 1952-1961*

Using Facial Symmetry to Handle Pose Variations in Real-World 3D Face Recognition. *Passalis, Georgios*, +, *TPAMI Oct. 2011 1938-1951*

Principal component analysis

A Nonrigid Kernel-Based Framework for 2D-3D Pose Estimation and 2D Image Segmentation. *Sandhu, Romeil*, +, *TPAMI June 2011 1098-1115*

Trajectory Space: A Dual Representation for Nonrigid Structure from Motion. *Akhter, Ijaz*, +, *TPAMI July 2011 1442-1456*

Probabilistic logic

C^4 : Exploring Multiple Solutions in Graphical Models by Cluster Sampling. *Porway, Jacob*, +, *TPAMI Sept. 2011 1713-1727*

Identifying Rare and Subtle Behaviors: A Weakly Supervised Joint Topic Model. *Hospedales, Timothy M.*, +, *TPAMI Dec. 2011 2451-2464*

Probability

A Hybrid Probabilistic Model for Unified Collaborative and Content-Based Image Tagging. *Zhou, Ning*, +, *TPAMI July 2011 1281-1294*

Cost-Sensitive Boosting. *Masnadi-Shirazi, Hamed*, +, *TPAMI Feb. 2011 294-309*

Simplified Computation for Nonparametric Windows Method of Probability Density Function Estimation. *Joshi, Niranjana*, +, *TPAMI Aug. 2011 1673-1680*

Trajectory Learning for Activity Understanding: Unsupervised, Multilevel, and Long-Term Adaptive Approach. *Morris, Brendan Tran*, +, *TPAMI Nov. 2011 2287-2301*

Q

Quantization (signal)

Facial Deblur Inference Using Subspace Analysis for Recognition of Blurred Faces. *Nishiyama, Masashi*, +, *TPAMI April 2011 838-845*

Query formulation

Approximate Nearest Subspace Search. *Basri, Ronen*, +, *TPAMI Feb. 2011 266-278*

Harvesting Image Databases from the Web. *Schroff, F.*, +, *TPAMI April 2011 754-766*

Question answering (information retrieval)

Term Weighting Schemes for Question Categorization. *Quan, Xiaojun*, +, *TPAMI May 2011 1009-1021*

R

Radar tracking

Shape-Based Online Multitarget Tracking and Detection for Targets Causing Multiple Measurements: Variational Bayesian Clustering and Lossless Data Association. *De Laet, Tinne*, +, *TPAMI Dec. 2011 2477-2491*

Radial basis function networks

Modeling Bidirectional Texture Functions with Multivariate Spherical Radial Basis Functions. *Tsai, Yu-Ting*, +, *TPAMI July 2011 1356-1369*

Selecting Critical Patterns Based on Local Geometrical and Statistical Information. *Li, Yuhua*, +, *TPAMI June 2011 1189-1201*

Random processes

Hidden Part Models for Human Action Recognition: Probabilistic versus Max Margin. *Wang, Yang*, +, *TPAMI July 2011 1310-1323*

Learning to Detect a Salient Object. *Liu, Tie*, +, *TPAMI Feb. 2011 353-367*

Random variables

Causal Inference on Discrete Data Using Additive Noise Models. *Peters, Jonas*, +, *TPAMI Dec. 2011 2436-2450*

Real time systems

Automatic Relocalization and Loop Closing for Real-Time Monocular SLAM. *Williams, Brian*, +, *TPAMI Sept. 2011 1699-1712*

Automatic Relocalization and Loop Closing for Real-Time Monocular SLAM. *Williams, Brian*, +, *TPAMI Sept. 2011 1699-1712*

Reflectivity

Non-Lambertian Reflectance Modeling and Shape Recovery of Faces Using Tensor Splines. *Kumar, Ritwik*, +, *TPAMI March 2011 533-567*

The Geometry of Reflectance Symmetries. *Tan, Ping*, +, *TPAMI Dec. 2011 2506-2520*

Refraction

Dynamic Refraction Stereo. *Morris, Nigel J. W.*, +, *TPAMI Aug. 2011 1518-1531*

Refractive index

Dynamic Refraction Stereo. *Morris, Nigel J. W.*, +, *TPAMI Aug. 2011 1518-1531*

Regression analysis

A Variance Minimization Criterion to Feature Selection Using Laplacian Regularization. *He, Xiaofei*, +, *TPAMI Oct. 2011 2013-2025*

Action Recognition from One Example. *Seo, Hae Jong*, +, *TPAMI May 2011 867-882*

Causal Inference on Discrete Data Using Additive Noise Models. *Peters, Jonas*, +, *TPAMI Dec. 2011 2436-2450*

Central Subspace Dimensionality Reduction Using Covariance Operators. *Kim, Minyoung*, +, *TPAMI April 2011 657-670*

Compactly Supported Basis Functions as Support Vector Kernels for Classification. *Wittek, Peter*, +, *TPAMI Oct. 2011 2039-2050*

Self-Adaptive Induction of Regression Trees. *Fidalgo-Merino, Raul*, +, *TPAMI Aug. 2011 1659-1672*

Unconstrained Pose-Invariant Face Recognition Using 3D Generic Elastic Models. *Prabhu, Utsav*, +, *TPAMI Oct. 2011 1952-1961*

Relaxation theory

Coordination of Cluster Ensembles via Exact Methods. *Christou, Ioannis T.*, +, *TPAMI Feb. 2011 279-293*

Rendering (computer graphics)

Modeling Bidirectional Texture Functions with Multivariate Spherical Radial Basis Functions. *Tsai, Yu-Ting*, +, *TPAMI July 2011 1356-1369*

On the Duality of Forward and Inverse Light Transport. *Chandraker, Manmohan*, +, *TPAMI Oct. 2011 2122-2128*

Resource allocation

Dynamic Processing Allocation in Video. *Chen, Daozheng*, +, *TPAMI Nov. 2011 2174-2187*

Road vehicles

Vehicle Detection Using Partial Least Squares. *Kembhavi, Aniruddha*, +, *TPAMI June 2011 1250-1265*

Vehicle Surveillance with a Generic, Adaptive, 3D Vehicle Model. *Leotta, Matthew J.*, +, *TPAMI July 2011 1457-1469*

Robustness

Robustly Aligning a Shape Model and Its Application to Car Alignment of Unknown Pose. *Li, Yan*, +, *TPAMI Sept. 2011 1860-1876*

S

Sampling methods

On Kleinberg's Stochastic Discrimination Procedure. *Irlle, Albrecht*, +, *TPAMI July 2011 1482-1486*

Tiny Videos: A Large Data Set for Nonparametric Video Retrieval and Frame Classification. *Karpenko, Alexandre*, +, *TPAMI March 2011 618-630*

Screens (display)

An Analysis of Visual Adaptation and Contrast Perception for Tone Mapping. *Ferradans, Sira*, +, *TPAMI Oct. 2011 2002-2012*

Search engines

Harvesting Image Databases from the Web. *Schroff, F.*, +, *TPAMI April 2011 754-766*

Search problems

Decoupled Active Contour (DAC) for Boundary Detection. *Mishra, Akshaya K.*, +, *TPAMI Feb. 2011 310-324*

Discriminative Video Pattern Search for Efficient Action Detection. *Yuan, Junsong*, +, *TPAMI Sept. 2011 1728-1743*

Series (mathematics)

On the Duality of Forward and Inverse Light Transport. *Chandraker, Manmohan*, +, *TPAMI Oct. 2011 2122-2128*

Set theory

Coordination of Cluster Ensembles via Exact Methods. *Christou, Ioannis T.*, +, *TPAMI Feb. 2011 279-293*

Shape analysis

Computing the Inner Distances of Volumetric Models for Articulated Shape Description with a Visibility Graph. *Liu, Yu-Shen*, +, *TPAMI Dec. 2011 2538-2544*

Robustly Aligning a Shape Model and Its Application to Car Alignment of Unknown Pose. *Li, Yan*, +, *TPAMI Sept. 2011 1860-1876*

Statistical 3D Shape Analysis by Local Generative Descriptors. *Castellani, Umberto*, +, *TPAMI Dec. 2011 2555-2560*

Shape recognition

A New 3D-Matching Method of Nonrigid and Partially Similar Models Using Curve Analysis. *Tabia, Hedi*, +, *TPAMI April 2011 852-858*

Computing Smooth Time Trajectories for Camera and Deformable Shape in Structure from Motion with Occlusion. *Gotardo, Paulo F.U.*, +, *TPAMI Oct. 2011 2051-2065*

Dense Mirroring Surface Recovery from 1D Homographies and Sparse Correspondences. *Rozenfeld, Stas*, +, *TPAMI Feb. 2011 325-337*

Linear Local Models for Monocular Reconstruction of Deformable Surfaces. *Salzmann, Mathieu*, +, *TPAMI May 2011 931-944*

- Penalizing Closest Point Sharing for Automatic Free Form Shape Registration. *Liu, Yonghui*, +, *TPAMI May 2011 1058-1064*
- Shape Recognition with Spectral Distances. *Bronstein, Michael M.*, +, *TPAMI May 2011 1065-1071*
- The Ovsucule. *Thevenaz, Philippe*, +, *TPAMI Feb. 2011 382-393*
- Signal classification**
- Convolutional Neural Networks for P300 Detection with Application to Brain-Computer Interfaces. *Cecotti, Hubert*, +, *TPAMI March 2011 433-445*
- Eye Movement Analysis for Activity Recognition Using Electrooculography. *Bulling, Andreas*, +, *TPAMI April 2011 741-753*
- Signal representation**
- Simplified Computation for Nonparametric Windows Method of Probability Density Function Estimation. *Joshi, Niranjana*, +, *TPAMI Aug. 2011 1673-1680*
- Simultaneous localization and mapping**
- Automatic Relocalization and Loop Closing for Real-Time Monocular SLAM. *Williams, Brian*, +, *TPAMI Sept. 2011 1699-1712*
- Smoothing methods**
- Intensity-Based Image Registration by Nonparametric Local Smoothing. *Xing, Chen*, +, *TPAMI Oct. 2011 2081-2092*
- Software algorithms**
- Running Max/Min Filters Using 1+o(1) Comparisons per Sample. *Yuan, Hao*, +, *TPAMI Dec. 2011 2544-2548*
- Solid modeling**
- Computing the Inner Distances of Volumetric Models for Articulated Shape Description with a Visibility Graph. *Liu, Yu-Shen*, +, *TPAMI Dec. 2011 2538-2544*
- Model-Based 3D Hand Pose Estimation from Monocular Video. *de La Gorce, Martin*, +, *TPAMI Sept. 2011 1793-1805*
- A New 3D-Matching Method of Nonrigid and Partially Similar Models Using Curve Analysis. *Tabia, Hedi*, +, *TPAMI April 2011 852-858*
- Construction of Iso-Contours, Bisectors, and Voronoi Diagrams on Triangulated Surfaces. *Liu, Yong-Jin*, +, *TPAMI Aug. 2011 1502-1517*
- Non-Lambertian Reflectance Modeling and Shape Recovery of Faces Using Tensor Splines. *Kumar, Ritwik*, +, *TPAMI March 2011 533-567*
- Reconstructing 3D Face Model with Associated Expression Deformation from a Single Face Image via Constructing a Low-Dimensional Expression Deformation Manifold. *Wang, Shu-Fan*, +, *TPAMI Oct. 2011 2115-2121*
- Topology-Adaptive Mesh Deformation for Surface Evolution, Morphing, and Multiview Reconstruction. *Zaharescu, Andrei*, +, *TPAMI April 2011 823-837*
- Unconstrained Pose-Invariant Face Recognition Using 3D Generic Elastic Models. *Prabhu, Utsav*, +, *TPAMI Oct. 2011 1952-1961*
- Video Normals from Colored Lights. *Brostow, Gabriel J.*, +, *TPAMI Oct. 2011 2104-2114*
- Sparse matrices**
- Parallel Spectral Clustering in Distributed Systems. *Chen, Wen-Yen*, +, *TPAMI March 2011 568-586*
- Spatial resolution**
- A Prism-Mask System for Multispectral Video Acquisition. *Cao, Xun*, +, *TPAMI Dec. 2011 2423-2435*
- Spatiotemporal phenomena**
- Discriminative Video Pattern Search for Efficient Action Detection. *Yuan, Junsong*, +, *TPAMI Sept. 2011 1728-1743*
- Trajectory Learning for Activity Understanding: Unsupervised, Multilevel, and Long-Term Adaptive Approach. *Morris, Brendan Tran*, +, *TPAMI Nov. 2011 2287-2301*
- Special issues and sections**
- Guest Editors' Introduction to the Special Section on Award-Winning Papers from the IEEE Conference on Computer Vision and Pattern Recognition 2009 (CVPR 2009). *Essa, Irfan*, +, *TPAMI Dec. 2011 2339-2340*
- Introduction to the Special Section on Real-World Face Recognition. *Hua, Gang*, +, *TPAMI Oct. 2011 1921-1924*
- Spectral analysis**
- A Prism-Mask System for Multispectral Video Acquisition. *Cao, Xun*, +, *TPAMI Dec. 2011 2423-2435*
- Splines (mathematics)**
- Non-Lambertian Reflectance Modeling and Shape Recovery of Faces Using Tensor Splines. *Kumar, Ritwik*, +, *TPAMI March 2011 533-567*
- Statistical analysis**
- Describing Reflectances for Color Segmentation Robust to Shadows, Highlights, and Textures. *Vazquez, Eduard*, +, *TPAMI May 2011 917-930*
- Effective Unconstrained Face Recognition by Combining Multiple Descriptors and Learned Background Statistics. *Wolf, Lior*, +, *TPAMI Oct. 2011 1978-1990*
- Facial Deblur Inference Using Subspace Analysis for Recognition of Blurred Faces. *Nishiyama, Masashi*, +, *TPAMI April 2011 838-845*
- Learning Linear Discriminant Projections for Dimensionality Reduction of Image Descriptors. *Cai, Hongping*, +, *TPAMI Feb. 2011 338-352*
- Matching Forensic Sketches to Mug Shot Photos. *Klare, Brendan*, +, *TPAMI March 2011 639-646*
- Motion Regularization for Matting Motion Blurred Objects. *Lin, Hai Ting*, +, *TPAMI Nov. 2011 2329-2336*
- Revisiting Linear Discriminant Techniques in Gender Recognition. *Bekios-Calfa, Juan*, +, *TPAMI April 2011 858-864*
- Richardson-Lucy Deblurring for Scenes under a Projective Motion Path. *Tai, Yu-Wing*, +, *TPAMI Aug. 2011 1603-1618*
- Robust Point Set Registration Using Gaussian Mixture Models. *Jian, Bing*, +, *TPAMI Aug. 2011 1633-1645*
- Selecting Critical Patterns Based on Local Geometrical and Statistical Information. *Li, Yuhua*, +, *TPAMI June 2011 1189-1201*
- Specificity: A Graph-Based Estimator of Divergence. *Twining, Carole J.*, +, *TPAMI Dec. 2011 2492-2505*
- Understanding Blind Deconvolution Algorithms. *Levin, Anat*, +, *TPAMI Dec. 2011 2354-2367*
- Statistical distributions**
- Canonical Correlation Analysis for Multilabel Classification: A Least-Squares Formulation, Extensions, and Analysis. *Sun, Liang*, +, *TPAMI Jan. 2011 194-200*
- On Kleinberg's Stochastic Discrimination Procedure. *Irle, Albrecht*, +, *TPAMI July 2011 1482-1486*
- Shape Analysis of Elastic Curves in Euclidean Spaces. *Srivastava, Anuj*, +, *TPAMI July 2011 1415-1428*
- Stereo image processing**
- A Component-Wise Analysis of Constructible Match Cost Functions for Global Stereopsis. *Neilson, Daniel*, +, *TPAMI Nov. 2011 2147-2159*
- Higher-Dimensional Affine Registration and Vision Applications. *Shahed, S M Nejhun*, +, *TPAMI July 2011 1324-1338*
- Multiview Stereo and Silhouette Consistency via Convex Functionals over Convex Domains. *Cremers, Daniel*, +, *TPAMI June 2011 1161-1174*
- Overcoming Shadows in 3-Source Photometric Stereo. *Hernandez, Carlos*, +, *TPAMI Feb. 2011 419-426*
- Reliability Fusion of Time-of-Flight Depth and Stereo Geometry for High Quality Depth Maps. *Zhu, Jiejie*, +, *TPAMI July 2011 1400-1414*
- Robust Multiscale Stereo Matching from Fundus Images with Radiometric Differences. *Tang, Li*, +, *TPAMI Nov. 2011 2245-2258*
- Robust Stereo Matching Using Adaptive Normalized Cross-Correlation. *Heo, Yong Seok*, +, *TPAMI April 2011 807-822*
- Using Facial Symmetry to Handle Pose Variations in Real-World 3D Face Recognition. *Passalis, Georgios*, +, *TPAMI Oct. 2011 1938-1951*
- Video Normals from Colored Lights. *Brostow, Gabriel J.*, +, *TPAMI Oct. 2011 2104-2114*
- Stochastic processes**
- An Extended Grammar System for Learning and Recognizing Complex Visual Events. *Zhang, Zhang*, +, *TPAMI Feb. 2011 240-255*
- On Kleinberg's Stochastic Discrimination Procedure. *Irle, Albrecht*, +, *TPAMI July 2011 1482-1486*
- Supervised learning**
- Identifying Rare and Subtle Behaviors: A Weakly Supervised Joint Topic Model. *Hospedales, Timothy M.*, +, *TPAMI Dec. 2011 2451-2464*
- Weakly Supervised Recognition of Daily Life Activities with Wearable Sensors. *Stikic, Maja*, +, *TPAMI Dec. 2011 2521-2537*
- Support vector machines**
- Compactly Supported Basis Functions as Support Vector Kernels for Classification. *Wittek, Peter*, +, *TPAMI Oct. 2011 2039-2050*
- Context-Dependent Kernels for Object Classification. *Sahbi, Hichem*, +, *TPAMI April 2011 699-708*
- Eye Movement Analysis for Activity Recognition Using Electrooculography. *Bulling, Andreas*, +, *TPAMI April 2011 741-753*
- Harvesting Image Databases from the Web. *Schroff, F.*, +, *TPAMI April 2011 754-766*
- Learning a Family of Detectors via Multiplicative Kernels. *Yuan, Quan*, +, *TPAMI March 2011 514-530*
- Nonconvex Online Support Vector Machines. *Ertekin, Seyda*, +, *TPAMI Feb. 2011 368-381*

Revisiting Linear Discriminant Techniques in Gender Recognition. *Bekios-Calfa, Juan*, +, *TPAMI April 2011 858-864*

Selecting Critical Patterns Based on Local Geometrical and Statistical Information. *Li, Yuhua*, +, *TPAMI June 2011 1189-1201*

Textual Query of Personal Photos Facilitated by Large-Scale Web Data. *Liu, Yiming*, +, *TPAMI May 2011 1022-1036*

Surface fitting

Distance-Driven Skeletonization in Voxel Images. *Arcelli, Carlo*, +, *TPAMI April 2011 709-720*

Topology-Adaptive Mesh Deformation for Surface Evolution, Morphing, and Multiview Reconstruction. *Zaharescu, Andrei*, +, *TPAMI April 2011 823-837*

Surface reconstruction

Dynamic Refraction Stereo. *Morris, Nigel J. W.*, +, *TPAMI Aug. 2011 1518-1531*

The Geometry of Reflectance Symmetries. *Tan, Ping*, +, *TPAMI Dec. 2011 2506-2520*

Surface texture

Model-Based 3D Hand Pose Estimation from Monocular Video. *de La Gorce, Martin*, +, *TPAMI Sept. 2011 1793-1805*

Surface topography

Optimization in Differentiable Manifolds in Order to Determine the Method of Construction of Prehistoric Wall Paintings. *Arabadjis, Dimitris*, +, *TPAMI Nov. 2011 2229-2244*

T

Target tracking

Layered Graphical Models for Tracking Partially Occluded Objects. *Ablavsky, Vitaly*, +, *TPAMI Sept. 2011 1758-1775*

Online Multiperson Tracking-by-Detection from a Single, Uncalibrated Camera. *Breitenstein, Michael D.*, +, *TPAMI Sept. 2011 1820-1833*

Robust Facial Feature Tracking Using Shape-Constrained Multiresolution-Selected Linear Predictors. *Ong, Eng-Jon*, +, *TPAMI Sept. 2011 1844-1859*

Robust Visual Tracking and Vehicle Classification via Sparse Representation. *Mei, Xue*, +, *TPAMI Nov. 2011 2259-2272*

Shape-Based Online Multitarget Tracking and Detection for Targets Causing Multiple Measurements: Variational Bayesian Clustering and Lossless Data Association. *De Laet, Tinne*, +, *TPAMI Dec. 2011 2477-2491*

Temporal databases

Action Recognition Using Mined Hierarchical Compound Features. *Gilbert, Andrew*, +, *TPAMI May 2011 883-897*

Temporal logic

An Extended Grammar System for Learning and Recognizing Complex Visual Events. *Zhang, Zhang*, +, *TPAMI Feb. 2011 240-255*

Tensors

Local Distance Functions: A Taxonomy, New Algorithms, and an Evaluation. *Ramanan, Deva*, +, *TPAMI April 2011 794-806*

Non-Lambertian Reflectance Modeling and Shape Recovery of Faces Using Tensor Splines. *Kumar, Ritwik*, +, *TPAMI March 2011 533-567*

Terrain mapping

Direct Method for Video-Based Navigation Using a Digital Terrain Map. *Lerner, Ronen*, +, *TPAMI Feb. 2011 406-411*

Text analysis

Improving Offline Handwritten Text Recognition with Hybrid HMM/ANN Models. *Espana-Boquera, S.*, +, *TPAMI April 2011 767-779*

Term Weighting Schemes for Question Categorization. *Quan, Xiaojun*, +, *TPAMI May 2011 1009-1021*

Textual Query of Personal Photos Facilitated by Large-Scale Web Data. *Liu, Yiming*, +, *TPAMI May 2011 1022-1036*

Three dimensional displays

Automatic Relocalization and Loop Closing for Real-Time Monocular SLAM. *Williams, Brian*, +, *TPAMI Sept. 2011 1699-1712*

Computing the Inner Distances of Volumetric Models for Articulated Shape Description with a Visibility Graph. *Liu, Yu-Shen*, +, *TPAMI Dec. 2011 2538-2544*

Introduction to the Special Section on Real-World Face Recognition. *Hua, Gang*, +, *TPAMI Oct. 2011 1921-1924*

Layered Graphical Models for Tracking Partially Occluded Objects. *Ablavsky, Vitaly*, +, *TPAMI Sept. 2011 1758-1775*

Model-Based 3D Hand Pose Estimation from Monocular Video. *de La Gorce, Martin*, +, *TPAMI Sept. 2011 1793-1805*

Statistical 3D Shape Analysis by Local Generative Descriptors. *Castellani, Umberto*, +, *TPAMI Dec. 2011 2555-2560*

Time measurement

Shape-Based Online Multitarget Tracking and Detection for Targets Causing Multiple Measurements: Variational Bayesian Clustering and Lossless Data Association. *De Laet, Tinne*, +, *TPAMI Dec. 2011 2477-2491*

Topology

Theory and Algorithms for Constructing Discrete Morse Complexes from Grayscale Digital Images. *Robins, Vanessa*, +, *TPAMI Aug. 2011 1646-1658*

Tracking

A Similarity Measure for Image and Volumetric Data Based on Hermann Weyl's Discrepancy. *Moser, Bernhard A.*, +, *TPAMI Nov. 2011 2321-2329*

Automatic Relocalization and Loop Closing for Real-Time Monocular SLAM. *Williams, Brian*, +, *TPAMI Sept. 2011 1699-1712*

Model-Based 3D Hand Pose Estimation from Monocular Video. *de La Gorce, Martin*, +, *TPAMI Sept. 2011 1793-1805*

Multiple Object Tracking Using K-Shortest Paths Optimization. *Berclaz, Jerome*, +, *TPAMI Sept. 2011 1806-1819*

Robust Facial Feature Tracking Using Shape-Constrained Multiresolution-Selected Linear Predictors. *Ong, Eng-Jon*, +, *TPAMI Sept. 2011 1844-1859*

Traffic engineering computing

Vehicle Surveillance with a Generic, Adaptive, 3D Vehicle Model. *Leotta, Matthew J.*, +, *TPAMI July 2011 1457-1469*

Training

Weakly Supervised Recognition of Daily Life Activities with Wearable Sensors. *Stikic, Maja*, +, *TPAMI Dec. 2011 2521-2537*

Specificity: A Graph-Based Estimator of Divergence. *Twining, Carole J.*, +, *TPAMI Dec. 2011 2492-2505*

Trajectory

Multiple Object Tracking Using K-Shortest Paths Optimization. *Berclaz, Jerome*, +, *TPAMI Sept. 2011 1806-1819*

Transforms

Distance-Driven Skeletonization in Voxel Images. *Arcelli, Carlo*, +, *TPAMI April 2011 709-720*

Higher-Dimensional Affine Registration and Vision Applications. *Shahed, S M Nejhum*, +, *TPAMI July 2011 1324-1338*

SIFT Flow: Dense Correspondence across Scenes and Its Applications. *Liu, Ce*, +, *TPAMI May 2011 978-994*

Trees (mathematics)

Contour Detection and Hierarchical Image Segmentation. *Arbelaez, Pablo*, +, *TPAMI May 2011 898-916*

Greedy Learning of Binary Latent Trees. *Harmeling, Stefan*, +, *TPAMI June 2011 1087-1097*

Self-Adaptive Induction of Regression Trees. *Fidalgo-Merino, Raul*, +, *TPAMI Aug. 2011 1659-1672*

Unsupervised Organization of Image Collections: Taxonomies and Beyond. *Bart, Evgeniy*, +, *TPAMI Nov. 2011 2302-2315*

Turbo codes

Turbo Segmentation of Textured Images. *Lehmann, Frederic*, +, *TPAMI Jan. 2011 16-29*

U

Unsupervised learning

A Variance Minimization Criterion to Feature Selection Using Laplacian Regularization. *He, Xiaofei*, +, *TPAMI Oct. 2011 2013-2025*

Greedy Learning of Binary Latent Trees. *Harmeling, Stefan*, +, *TPAMI June 2011 1087-1097*

Trajectory Learning for Activity Understanding: Unsupervised, Multilevel, and Long-Term Adaptive Approach. *Morris, Brendan Tran*, +, *TPAMI Nov. 2011 2287-2301*

Unsupervised Organization of Image Collections: Taxonomies and Beyond. *Bart, Evgeniy*, +, *TPAMI Nov. 2011 2302-2315*

V

Vector quantization

Product Quantization for Nearest Neighbor Search. *Jegou, Herve*, +, *TPAMI Jan. 2011 117-128*

Vectors

Matching Forensic Sketches to Mug Shot Photos. *Klare, Brendan*, +, *TPAMI March 2011 639-646*

Vehicles

Robust Visual Tracking and Vehicle Classification via Sparse Representation. *Mei, Xue, +, TPAMI Nov. 2011 2259-2272*

Very large databases

Product Quantization for Nearest Neighbor Search. *Jegou, Herve, +, TPAMI Jan. 2011 117-128*

Video cameras

Trajectory Learning for Activity Understanding: Unsupervised, Multilevel, and Long-Term Adaptive Approach. *Morris, Brendan Tran, +, TPAMI Nov. 2011 2287-2301*

Video coding

Tiny Videos: A Large Data Set for Nonparametric Video Retrieval and Frame Classification. *Karpenko, Alexandre, +, TPAMI March 2011 618-630*

Trajectory Learning for Activity Understanding: Unsupervised, Multilevel, and Long-Term Adaptive Approach. *Morris, Brendan Tran, +, TPAMI Nov. 2011 2287-2301*

Video communication

Bilayer Segmentation of Webcam Videos Using Tree-Based Classifiers. *Yin, Pei, +, TPAMI Jan. 2011 30-42*

Video retrieval

Action Recognition from One Example. *Seo, Hae Jong, +, TPAMI May 2011 867-882*

Tiny Videos: A Large Data Set for Nonparametric Video Retrieval and Frame Classification. *Karpenko, Alexandre, +, TPAMI March 2011 618-630*

Video sequences

Discriminative Video Pattern Search for Efficient Action Detection. *Yuan, Junsong, +, TPAMI Sept. 2011 1728-1743*

Video signal processing

A Fast Bilinear Structure from Motion Algorithm Using a Video Sequence and Inertial Sensors. *Ramachandran, Mahesh, +, TPAMI Jan. 2011 186-193*

A Laplacian Approach to Multi-Oriented Text Detection in Video. *Shivakumara, Palaiahnakote, +, TPAMI Feb. 2011 412-419*

Bilayer Segmentation of Webcam Videos Using Tree-Based Classifiers. *Yin, Pei, +, TPAMI Jan. 2011 30-42*

Coded Stroboscopic Photography: Compressive Sensing of High Speed Periodic Videos. *Veeraraghavan, Ashok, +, TPAMI April 2011 671-686*

Direct Method for Video-Based Navigation Using a Digital Terrain Map. *Lerner, Ronen, +, TPAMI Feb. 2011 406-411*

Dynamic Processing Allocation in Video. *Chen, Daozheng, +, TPAMI Nov. 2011 2174-2187*

Hidden Part Models for Human Action Recognition: Probabilistic versus Max Margin. *Wang, Yang, +, TPAMI July 2011 1310-1323*

Learning a Family of Detectors via Multiplicative Kernels. *Yuan, Quan, +, TPAMI March 2011 514-530*

Robust Bilayer Segmentation and Motion/Depth Estimation with a Hand-held Camera. *Zhang, Guofeng, +, TPAMI March 2011 603-617*

Robust Object Tracking with Online Multiple Instance Learning. *Babenko, Boris, +, TPAMI Aug. 2011 1619-1632*

Robust Visual Tracking and Vehicle Classification via Sparse Representation. *Mei, Xue, +, TPAMI Nov. 2011 2259-2272*

Statistical Computations on Grassmann and Stiefel Manifolds for Image and Video-Based Recognition. *Turaga, Pavan, +, TPAMI Nov. 2011 2273-2286*

Trajectory Space: A Dual Representation for Nonrigid Structure from Motion. *Akhter, Ijaz, +, TPAMI July 2011 1442-1456*

Unconstrained Pose-Invariant Face Recognition Using 3D Generic Elastic Models. *Prabhu, Utsav, +, TPAMI Oct. 2011 1952-1961*

Video Normals from Colored Lights. *Brostow, Gabriel J., +, TPAMI Oct. 2011 2104-2114*

Video surveillance

Toward Development of a Face Recognition System for Watchlist Surveillance. *Kamgar-Parsi, Behrooz, +, TPAMI Oct. 2011 1925-1937*

Trajectory Learning for Activity Understanding: Unsupervised, Multilevel, and Long-Term Adaptive Approach. *Morris, Brendan Tran, +, TPAMI Nov. 2011 2287-2301*

Vehicle Detection Using Partial Least Squares. *Kembhavi, Aniruddha, +, TPAMI June 2011 1250-1265*

Vehicle Surveillance with a Generic, Adaptive, 3D Vehicle Model. *Leotta, Matthew J., +, TPAMI July 2011 1457-1469*

Visual databases

Energy Normalization for Pose-Invariant Face Recognition Based on MRF Model Image Matching. *Rahimzadeh Arashloo, Shervin, +, TPAMI June 2011 1274-1280*

Harvesting Image Databases from the Web. *Schroff, F., +, TPAMI April 2011 754-766*

Latent Fingerprint Matching. *Jain, Anil K., +, TPAMI Jan. 2011 88-100*

Learning to Detect a Salient Object. *Liu, Tie, +, TPAMI Feb. 2011 353-367*

Unsupervised Image Categorization by Hypergraph Partition. *Huang, Yuchi, +, TPAMI June 2011 1266-1273*

Unsupervised Organization of Image Collections: Taxonomies and Beyond. *Bart, Evgeniy, +, TPAMI Nov. 2011 2302-2315*

Visual perception

A Component-Wise Analysis of Constructible Match Cost Functions for Global Stereoopsis. *Neilson, Daniel, +, TPAMI Nov. 2011 2147-2159*

An Analysis of Visual Adaptation and Contrast Perception for Tone Mapping. *Ferradans, Sira, +, TPAMI Oct. 2011 2002-2012*

Computational versus Psychophysical Bottom-Up Image Saliency: A Comparative Evaluation Study. *Toet, Alexander, +, TPAMI Nov. 2011 2131-2146*

Visualization

A Tensor-Based Algorithm for High-Order Graph Matching. *Duchenne, Olivier, +, TPAMI Dec. 2011 2383-2395*

Nonparametric Scene Parsing via Label Transfer. *Liu, Ce, +, TPAMI Dec. 2011 2368-2382*

Reading 1D Barcodes with Mobile Phones Using Deformable Templates. *Gallo, Orazio, +, TPAMI Sept. 2011 1834-1843*

Robust Facial Feature Tracking Using Shape-Constrained Multiresolution-Selected Linear Predictors. *Ong, Eng-Jon, +, TPAMI Sept. 2011 1844-1859*

Vocabulary

Effective Unconstrained Face Recognition by Combining Multiple Descriptors and Learned Background Statistics. *Wolf, Lior, +, TPAMI Oct. 2011 1978-1990*

Volume measurement

Computing the Inner Distances of Volumetric Models for Articulated Shape Description with a Visibility Graph. *Liu, Yu-Shen, +, TPAMI Dec. 2011 2538-2544*

W**Walsh functions**

A Dual-Bound Algorithm for Very Fast and Exact Template Matching. *Schweitzer, Haim, +, TPAMI March 2011 459-470*

Wavelet transforms

Compactly Supported Basis Functions as Support Vector Kernels for Classification. *Wittek, Peter, +, TPAMI Oct. 2011 2039-2050*

On the Duality of Forward and Inverse Light Transport. *Chandraker, Manmohan, +, TPAMI Oct. 2011 2122-2128*

Using Facial Symmetry to Handle Pose Variations in Real-World 3D Face Recognition. *Passalis, Georgios, +, TPAMI Oct. 2011 1938-1951*

Wearable computers

Weakly Supervised Recognition of Daily Life Activities with Wearable Sensors. *Stikic, Maja, +, TPAMI Dec. 2011 2521-2537*

Weibull distribution

Color Constancy Using Natural Image Statistics and Scene Semantics. *Gijssen, Arjan, +, TPAMI April 2011 687-698*

Meta-Recognition: The Theory and Practice of Recognition Score Analysis. *Scheirer, Walter J., +, TPAMI Aug. 2011 1689-1695*

Z**Zernike polynomials**

Efficient 3D Geometric and Zernike Moments Computation from Unstructured Surface Meshes. *Pozo, J. M., +, TPAMI March 2011 471-484*