Welcome to the 2006 International Conference on Computational Intelligence for Modelling, Control and Automation - CIMCA'2006.

The goal of the CIMCA'2006 conference is to provide a medium for the exchange of ideas between theoreticians and practitioners to address the important issues in computational intelligence for modelling, control and automation. The conference will consist of both plenary sessions and contributory sessions, focusing on theory, implementation and applications of computational intelligence techniques for modelling, control and automation.

The conference has attracted a large number of full paper submissions from over 35 countries including: Algeria, Australia, Austria, Brazil, Canada, China, Croatia, Czech Republic, Denmark, Finland, France, Germany, India, Iran, Israel, Italy, Japan, Korea, Malaysia, Mexico, New Zealand, Norway, Pakistan, Poland, Portugal, Singapore, South Korea, Spain, Sri Lanka, Sweden, Taiwan, Thailand, The Netherlands, United Arab Emirates and the USA. Each full paper submission to the conference was reviewed by two referees.

The proceedings of the CIMCA2006 are published as books by IEEE Computer Society Publishing in USA. The books are to provide highlights of the current research in computational intelligence area. It consists of research papers in the fields of Neural Networks, Classification, Knowledge Acquisition and Pattern Recognition, Advanced Intelligent Systems, Adaptive Control, Fuzzy Logic, Robotics, Path Planning, Tracking and
Message from the Program and Organizing Chair of CIMCA 2006

Control, Evolutionary Algorithms and Swarm Intelligence, Modelling and Automation, Decision Making, Vector Support Machines, Verification and Automation, Ontology and Knowledge Management, Data Mining and Information Retrieval, Bayesian Networks and Expert Systems, Image Processing and Image understanding and Coding, Clustering, Hybrid Systems, Audio Systems Analysis, Multi-Media Applications, Case-Based Reasoning and Innovative Applications of Computational Intelligence Techniques. This book contains all the accepted papers of the 2006 International Conference on Computational Intelligence for Modeling, Control and Automation - CIMCA’2006.

Many people have assisted in the success of this conference. I would like to thank the honorary chairs, all the members of the Programme, Organising and Review Committees, Keynote Speakers, International Liaisons, Tutorial Presenters, Reviewers and the conference Secretariat for their tireless work and assistance in the organisation of this conference. I would like also to express my gratitude to all authors for contributing their research papers to the conference.

Masoud Mohammadian
November 2006 – Sydney, Australia