Cristina Nita-Rotaru is a Professor of Computer Science in the College of Computer and Information Science at Northeastern University. Prior to joining Northeastern she was a faculty in the Department of Computer Science at Purdue University for twelve years. Her research lies at the intersection of information security, distributed systems, and computer networks. The overarching goal of her work is designing and building practical distributed systems and network protocols that meet their performance and security goals in spite of mis-configurations, failures, or attacks. Her approach combines theoretical principles and experimental methodologies from distributed systems, cryptography, networking, information theory, and machine learning to create systems and protocols based on provable guarantees and validated in realistic environments.

Cristina Nita-Rotaru is a recipient of the NSF Career Award in 2006. She has served on the Technical Program Committee of numerous conferences in security, networking and distributed systems (IEEE S&P, USENIX Security, ACM CCS, NDSS, ACM Wisec, ACM SIGCOMM, ACM CoNEXT, IEEE INFOCOM, IEEE ICNP, WWW, IEEE ICDCS, IEEE/IFIP DSN, ACM PODC). She served as an Assistant Director for CERIAS (2011 - 2013), the Center of Education and Research in Information Assurance at Purdue University. She leads the Network and Distributed Systems Security Laboratory (NDS2) at Northeastern University. She has published over 100 articles in peer-reviewed conferences and journals. She is a member of the steering committee of ACM Wisec and a member of the IFIP Working Group on Dependable Computing and Fault Tolerance. She was an Associate Editor for Elsevier Computer Communications (2008 - 2011), IEEE Transactions on Computers (2011 - 2014), ACM Transactions on Information Systems Security (2009 - 2013), and Computer Networks (2012 - 2014), IEEE Transactions on Mobile Computing (2011 - 2016). She is currently an Associate Editor for IEEE Transactions on Dependable and Secure Systems. She is a senior member of IEEE, a member of IEEE Computer Society, IEEE Computer Society Technical Committee on Dependable Computing and Fault Tolerance, and a member of ACM. She is also a member of Upsilon Pi Epsilon.

Position Statement

The past and current Executive Members of the IEEE Technical Committee on Dependable Computing and Fault Tolerance have done an excellent job in creating a community that strives for scientific excellence, stays relevant by introducing new topics to the audience, is supportive of its members, and recognizes achievements at all levels. The changes made in the last few years such as the introduction of the best paper award and the Jean-Claude Laprie Award in Dependable Computing have had a positive impact on the community. I personally benefitted from this environment, from attending DSN (the flagship conference of the community) as a student till co-chairing it this year. It would be an honor for me to serve as the VP of the IEEE Technical Committee on Dependable Computing and Fault Tolerance (TCFT) and contribute to the community that has provided such a wonderful environment for my research group.
If elected, my objectives are as follows: (1) maintain and increase the scientific quality of the TCFT sponsored events, (2) increase attendance, sponsorship, and visibility for all TCFT sponsored events, (3) maintain and increase relevance of the TCFT related research to the current societal problems and promote topics on high-risk high-reward far reaching problems, (4) promote diversity in organization and attendance of TCFT sponsored events.