

# Welcome Message

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It is a great pleasure to welcome everyone to the *IEEE Transactions on Emerging Topics in Computing*, an open access journal that recently launched in 2013. This journal has been anxiously awaited by those interested in emerging aspects of computing not currently covered by other IEEE Computer Society Transactions. Some examples of emerging topics in computing include: *IT for green, synthetic and organic computing structures and systems, advanced analytics for Big Data, social/occupational computing, location-based/client computer systems, morphic computer design, electronic game systems, and health-care IT*, etc.

As with any such new venture, this transactions has been the result of the dedicated work of a large number of individuals. It takes a good team of both staff and volunteers to start a significant publication. The Editorial Board, under the direction of the Editor-in-Chief (EIC), is unique in that it is drawn from the pool of the Editors-in-Chief of other Computer Society titles. *TETC*'s Editorial Board will determine the editorial content and manage the rigorous peer review process to ensure publication of high-quality, original papers. The IEEE Computer Society will act as the administrative partner and will manage the manuscripts from their initial submission to final publication.

We are pleased to announce that Fabrizio Lombardi, a professor at Northeastern University, Boston, and a long-time valuable volunteer to the Computer Society, has been appointed as the inaugural EIC for the *IEEE Transactions on Emerging Technologies in Computing*, effective immediately. Dr. Lombardi is an IEEE Fellow, a member of the Computer Society Board of Governors, and is a past Editor-in-Chief of our flagship journal, the *IEEE Transactions on Computers*. It is hard to imagine a better individual to guide this unique and important Transactions than Dr. Lombardi.

Thomas M. Conte  
2012 1st Vice President and Vice President for Publications  
IEEE Computer Society



**Fabrizio Lombardi** graduated in 1977 from the University of Essex (UK) with a B.Sc. (Hons.) in electronic engineering. In 1977 he joined the Microwave Research Unit at University College London, where he received the Master in Microwaves and Modern Optics (1978), the Diploma in Microwave Engineering (1978) and the PhD from the University of London (1982). He is currently the holder of the International Test Conference (ITC) Endowed Chair Professorship at Northeastern University, Boston. At the same institution during the period 1998-2004 he served as Chair of the Department of Electrical and Computer Engineering. Prior to Northeastern University, he was a faculty member at Texas Tech University, the University of Colorado-Boulder and Texas A&M University. Currently, Dr. Lombardi is an associate editor of the *IEEE Transactions on Nanotechnology* and the inaugural Editor-in-Chief of the *IEEE Transactions on Emerging Topics in Computing*. He is an elected member of the Board of Governors of the IEEE Computer Society. He is also the CS representative on the boards of the IEEE Nanotechnology Council and the Computing-in-the-Core non-partisan advocacy coalition for K-12 computer science education. Dr. Lombardi was a two 2-year term Editor-in-Chief (2007-2010), Associate Editor-in-Chief (2000-2006) and Associate Editor (1996-2000) of the *IEEE Transactions on Computers*. Moreover, he has been a member of the editorial boards of the *ACM Journal of Emerging Technologies in Computing Systems*, the *IEEE Design & Test Magazine* and *IEEE Transactions on CAD of ICAS*. Dr. Lombardi has been twice a distinguished visitor of the IEEE Computer Society (1990-1993 and 2001-2004). He serves as Chair of the committee on "Nanotechnology Devices and Systems" of the Test Technology Technical Council of the IEEE. Dr. Lombardi is a Fellow of the IEEE for "contributions to testing and fault tolerance of digital systems". He was the recipient of the 2011 Meritorious Service Award and elevated to Golden Core membership by the IEEE Computer Society. He has received many professional awards: the Visiting Fellowship at the British Columbia Advanced System Institute, University of Victoria, Canada (1988), twice the Texas Experimental Engineering Station Research Fellowship (1991-1992, 1997-1998) the Halliburton Professorship (1995), the Outstanding Engineering Research Award at Northeastern University (2004) and an International Research Award from the Ministry of Science and Education of Japan (1993-1999). Dr. Lombardi was the recipient of the 1985/86 Research Initiation Award from the IEEE/Engineering Foundation and a Silver Quill Award from Motorola-Austin (1996). At the IEEE DFT07 Symposium, one of his papers was selected for the best paper award. Dr. Lombardi has been involved in organizing many international symposia, conferences and workshops sponsored by professional organizations as well as guest editor of special issues in archival journals and magazines such as *IEEE Transactions on Computers*, *IEEE Transactions on Instrumentation and Measurement*, *IEEE Transactions on VLSI*, the *IEEE Micro Magazine* and the *IEEE Design & Test Magazine*. His research interests are VLSI design, emerging technologies, memory circuits/architectures, bio/nano-inspired computing and fault/defect tolerance of digital systems. He has extensively published in these areas and coauthored/edited 10 books.