It is my pleasure to announce the creation of the IEEE Transactions on Parallel and Distributed Systems’ (TPDS) Media Center. We hope that the center will attract more readers to the journal, and assist our readers by facilitating their introduction to the latest development in the field, ranging from the design of systems used in some contributions, new exciting technologies, to demonstrating new networking paradigms and solution approaches in the field. It should further promote “systems” content in TPDS as opposed to traditionally prevailing “networking” content, although the latter is by no means excluded from the center. I have appointed new Associate Editor-in-Chief, Yunhao Liu, to handle the TPDS Media Center, together with his associates. He is involved in sensor network and RFID system constructions from hardware design through application development, and has a number of research contributions arising from these systems, primarily on localization, routing, operating systems, network diagnosis and management, and security. He is the principal scientist for the GreenOrbs project www.greenorbs.org in the TianMu mountain and urban sensor network in WuXi, China, each with more than 1,000 deployed sensors (collecting various sensory data, including temperature, humidity, illumination, and carbon dioxide titer), currently the two largest sensor deployments in the world. Yunhao Liu is among the top 10 author contributors to TPDS, and served as a TPDS associate editor before this appointment. His biography appears on the next page and contains a number of distinguished achievements.

The TPDS Media Center is designed as a multimedia webpage for this scholarly archival journal. In the Media Center, TPDS will interview outstanding researchers or engineers for their experiences and opinions on a variety of theoretical or technological topics. Meanwhile, we warmly welcome and encourage editors, authors, or volunteers to share and advertise their state-of-the-art projects or ongoing research studies relevant to the topic of parallel and distributed systems through this Media Center. Activities and call for papers (or special issues) of TPDS will be announced through this multimedia platform as well. Each article in the Media Center is in the form of a blog composed by some multimedia content, like a video and audio clip, as the main medium, and supported by certain brief text descriptions. We hope to leverage such brand new features of the Media Center as a driving force for worldwide researchers to contribute high quality and live research results to the community. We hope that you can actively participate in its growth and make it a great success.

In order to facilitate the contribution from peer researchers, we have set up an executing board of the Media Center to handle the content submissions from peer researchers. While the current board includes the Assistant EIC, Yunhao Liu (Professor at Tsinghua University, yunhao@greenorbs.com), Executive Chair, Mo Li (Assistant Professor at Nanyang Technological University, Singapore, limo@ntu.edu.sg), and the assistant, Zhenjiang Li (lzjiang@cse.ust.hk), we will look for the expertise review opinions and inputs from the TPDS AEs as well as the research community.

There are two categories of multimedia content that you can contribute. 1) The authors of an accepted regular TPDS paper are encouraged to submit their multimedia content along with their TPDS paper, which we will later select and publish on the media center. 2) Meanwhile, readers are also encouraged to directly submit their content to the executive chair Mo Li (limo@ntu.edu.sg). We’ve provided an FTP site (ftp://transMedia:media2011@ftp.computer.org) to receive the submission of multimedia contents, or you can first publish the submission to some other places (Youtube, your own FTPs, etc.) and send the content links to us.

TPDS has resolved its backlog issue, and papers are now published within approximately six months from their acceptance. To meet our annual page budget for 2012, page limit for the main file for most papers is back to its maximum, 14 pages. Each paper is still divided into two files, the main file (which replaces previously called “shortened version”) and the supplementary file. TPDS also resumed with organizing special issues. In 2011, calls for papers for two special issues were advertised, one on cyber-physical systems and another on cloud computing. I welcome proposals for future special issues.

I take this opportunity to welcome and introduce new distinguished researchers to the Editorial Board of TPDS. Song Guo, David Kaeli, Bronis R. de Supinski, and Kui Wu were appointed as new Associate Editors, starting September 2011, while Manuel E. Acacio joined the board earlier, in April 2011. Their short biographies and areas of research are given below. I am confident they will contribute to further enhancing the quality and timelines of TPDS. Fabrizio Petrini, Masafumi Yamashita, John Lui, Sampath Rangarajan, and Cheng-Zhong Xu completed their four-year terms as TPDS editors in September 2011. Their help and dedication in processing papers is greatly appreciated.

Ivan Stojmenovic
Editor-in-Chief
Yunhao Liu received the BS degree in automation from Tsinghua University, China, in 1995, and the MS and PhD degrees in computer science and engineering from Michigan State University, in 2003 and 2004, respectively. He is now EMC Chair Professor at Tsinghua University, as well as a faculty member with the Hong Kong University of Science and Technology. His research interests include wireless sensor networks, peer-to-peer computing, and pervasive computing. He published more than 140 papers in top journals such as the IEEE/ACM Transactions on Networking (8) and IEEE Transactions on Parallel and Distributed Systems (19), and in top conferences like MobiCom, INFOCOM, SIGMETRICS, SenSys, and SIGMOD. Many of his papers were selected as the Best Papers in prestigious conferences such as in DCOSS 2011, ICPADS 2009, MobiCom 2008, PerCom 2007, etc. He received the First Class Award in Natural Sciences: China Ministry of Education Award for Research Excellence, 2010, as well as the NSF China Outstanding Youth Award in 2011. He is very active in professional activities. He is a senior member of the IEEE Computer Society and an ACM Distinguished Speaker, and serves as the vice chair of ACM China Council. He organized many conferences, such as serving as the vice general chair of WWW 2008, general chair of WASA 2010, PC cochair of IEEE MASS 2011, PC cochair of IEEE ICPADS 2011, etc. He serves as the associate editor-in-chief for IEEE Transactions on Parallel and Distributed Systems and associate editor for IEEE Transactions on Mobile Computing.

Manuel E. Acacio is an associate professor of computer architecture and technology at the University of Murcia, Spain. He joined the Computer Engineering Department (DiTEC) in 1998, after he received the MS degree in computer science. Dr. Acacio started as a teaching assistant. At the same time, he began his work on his PhD thesis, which he successfully defended in March 2003. Before, in the summer of 2002, Dr. Acacio worked as a summer intern at IBM T.J. Watson, Yorktown Heights, New York. After that, he became an assistant professor in 2004, and subsequently, an associate professor in 2008. Currently, Dr. Acacio leads the Computer Architecture & Parallel Systems (CAPS) research group at the University of Murcia, which is part of the ACCA group. He has published several papers in top conferences such as HPCA, IPDPS, ICS, DSN, PACT, and SC, and renowned journals such as the IEEE Transactions on Parallel and Distributed Systems (TPDS) and IEEE Transactions on Computers (TC). Recently, he received the best paper award in the architectures track at the 25th IEEE International Parallel and Distributed Processing Symposium (IPDPS 2011). As well, he has served as a committee member of important conferences, ICPP and IPDPS among others, and he is currently an associate editor of TPDS. His research interests are focused on the architecture of multiprocessor systems. More specifically, Dr. Acacio is actively working on prediction and speculation in multiprocessor memory systems, synchronization in CMPs, power-aware cache-coherence protocols for CMPs, fault tolerance, and hardware transactional memory systems. He is a member of the IEEE.

Song Guo received the PhD degree in computer science from the University of Ottawa, Canada. Later, he held a position with the University of British Columbia on a prestigious NSERC Postdoctoral Fellowship in 2006. From 2006 to 2007, he was an assistant professor in the Department of Computer Science, University of Northern British Columbia, Canada. He is currently an associate professor with the School of Computer Science and Engineering, the University of Aizu, Japan. His research interests are mainly in the areas of protocol design and performance analysis for computer and telecommunication networks, presently focusing on network modeling, security analysis, cross-layer optimization, and performance evaluation of wireless, mobile, and personal networks for reliable, energy-efficient, and cost effective communications. He has published more than 120 papers in refereed journals and conferences in these areas. He is a senior member of IEEE.

Bronis R. de Supinski received the PhD degree in computer science from the University of Virginia in 1998 and he joined Lawrence Livermore National Laboratory’s (LLNL) Center for Applied Scientific Computing (CASC) in July 1998. He is the principal investigator and leader of the Exascale Computing Technologies (ExaCT) project and the coleader of the Advanced Simulation and Computing (ASC) program’s Application Development Environment and Performance Team (ADEPT) at LLNL. He is also an adjunct associate professor in the Department of Computer Science and Engineering at Texas A&M University. His research interests include high performance computer architectures, performance modeling and analysis, message passing implementations and tools, large-scale debugging, memory performance improvement, cache coherence and distributed shared memory, consistency semantics, and programming models. Currently, his projects include scalable debugging methods, investigations into mechanisms and tools to improve memory performance, applications of data mining techniques to tools for large-scale systems, resiliency techniques, a variety of optimization techniques and tools for MPI, and several issues with OpenMP, including its memory model and tool support. He pursues the last set of topics as the chair of the OpenMP Language Committee. Throughout his career, he has won several awards, including the prestigious Gordon Bell Prize in 2005 and 2006. He is a member of the ACM and the IEEE Computer Society.
David Kaeli received the BS and PhD degrees in electrical engineering from Rutgers University, and the MS degree in computer engineering from Syracuse University. He is the Associate Dean of Undergraduate Programs in the College of Engineering and a full professor on the ECE faculty at Northeastern University, Boston, Massachusetts. He is the director of the Northeastern University Computer Architecture Research Laboratory (NUCAR). Prior to joining Northeastern in 1993, he spent 12 years at IBM, the last 7 at the T.J. Watson Research Center, Yorktown Heights, New York. Dr. Kaeli has published more than 200 critically reviewed publications, seven books, and eight patents. His research spans a range of areas including microarchitecture to back-end compilers and database systems. His current research topics include information assurance, graphics processors, virtualization, heterogeneous computing, and multilayer reliability. He serves as the chair of the IEEE Technical Committee on Computer Architecture, and serves on the Executive Committee of ACM SIGMICRO. He is an associate editor of the Journal of Parallel and Distributed Computing and recently stepped down as associate editor of IEEE Computer Architecture Letters and the Journal of Instruction Level Parallelism. Dr. Kaeli is an IEEE Fellow.

Kui Wu received the BS degree in computer science in 1990 and the master’s degree in computer engineering in 1993, both from Wuhan University, China, and the PhD degree in computing science from the University of Alberta, Canada, in 2002. He joined the Department of Computer Science, University of Victoria, Canada, in the same year, where he is currently an associate professor. He was a visiting researcher at the Centre for Quantifiable Quality of Service in Communication Systems, Norwegian University of Science and Technology (NTNU) in 2008, and a Japan Society for the Promotion of Science (JSPS) visiting scholar at the University of Tsukuba in 2009. He is an active researcher in the areas of wireless ad hoc and sensor networks, performance evaluation, network security, and reliability of distributed systems, making significant contributions to theoretical analysis and real-world applications of wireless sensor networks. His research work has been published in top journals and conferences, including, for example, IEEE Transactions on Parallel and Distributed Systems (TPDS), IEEE Transactions on Wireless Communications (TWC), IEEE Transactions on Computers (TC), IEEE Transactions on Knowledge and Data Engineering (TKDE), ACM MobiHoc, IEEE Infocom, IEEE IWQoS, etc. His papers have been selected as a feature article in IEEE Distributed Systems Online (2006) and a spotlight paper for the December 2009 issue of TKDE. He currently serves as an associate editor of the International Journal of Ad Hoc & Sensor Networks and an associate editor of the International Journal of Sensor Networks. He also served as a guest editor of a special issue of the International Journal of Wireless and Mobile Computing. He served as a technical committee member for many conferences in the area of parallel and distributed systems, including Infocom, MASS, IPCCC, Globecom, ICC, ADHOC-NOW, LCN, and many more. He is an active reviewer for TPDS and other major IEEE transactions, e.g., TWC, IEEE Transactions on Vehicular Technology, IEEE/ACM Transactions on Networking, and IEEE Transactions on Mobile Computing. He is a senior member of the IEEE.