

Welcome Message

Jon Rokne

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I am delighted to introduce the first issue of the *IEEE Transactions on Cloud Computing*. Cloud computing is the new paradigm for distributed and shared computing that has been embraced by researchers, practitioners, and industry. The impact of cloud implementations on how computing is performed is profound. It reduces acquisition cost, maintenance cost, and has transformed the way that IT professionals and computer users handle their work. While there are many publications that cover cloud issues from an industry point of view, the IEEE Computer Society recognizes the need for a respected transactions that publishes research in the field of cloud computing. The new journal will help to fill this void by publishing high-quality, peer-reviewed papers, covering topics such as cloud security and privacy, cloud standards and protocols, cloud development tools, cloud software, cloud backup and recovery, cloud interoperability, cloud applications management, cloud data analytics, mobile cloud, private clouds, liability issues for data loss on clouds, cloud education and skill sets, and cloud applications in commerce, education, and industry.

The rapid acceptance of the cloud paradigm is also evidenced by the fact that this introduction was written while traveling, accessing it on a cloud facility anywhere with Internet access.

IEEE Transactions on Cloud Computing was developed by IEEE Cloud Computing Initiative, funded by IEEE to support activities in cloud computing such as publications, standards, education, and conferences. The IEEE Cloud portal <http://cloudcomputing.ieee.org/> is a collaborative source for information related to the cloud. Included are its initiatives on cloud, access to articles, conferences, interoperability standards, educational materials, and latest innovations. It also serves as a "portal" to other cloud resources throughout IEEE and beyond. The transaction is supported by IEEE Computer Society (managing partner), IEEE Communications Society, IEEE Consumer Electronics Society, and IEEE Power and Energy Society (where the first two societies are the financial partners). The journal has a Steering Committee overseeing the long term activities of the transaction. The Steering Committee also appointed a Search Committee for selecting the inaugural Editor-in-Chief.

I am delighted to introduce Dr. Rajkumar Buyya as the inaugural Editor-in-Chief of the transaction. Dr. Buyya is an internationally recognized researcher in cloud computing. He is well known to the community through his many contributions in the area of cloud computing in the form of books, papers, and conference presentations. He is also active in the commercialization of cloud computing research and is the Director of the the Cloud Computing and Distributed Systems (CLOUDS) Laboratory, University of Melbourne, and has organized several cloud computing conferences.

Dr. Buyya has established an Editorial Board of leading cloud computing professionals which, under the direction of the Editor-in-Chief, will determine the editorial content of the transaction and manage the rigorous peer review process to ensure publication of high-quality, original papers. The managing partner will act as the administrative partner and will manage the manuscripts work flow from their initial submission to final publication.

Many individuals, too numerous to mention here, contributed their time and ideas to define the scope and vision of this publication. I would also like to welcome authors and readers to this new transaction that is intended to be the premier forum for cloud computing research.

I would like to acknowledge the service and dedication of staff and volunteers of the IEEE Cloud Computing Initiative, the Steering Committee, and the Search Committee for the Editor-in-Chief. Support from the participating IEEE Societies and IEEE is also gratefully acknowledged.

Jon Rokne
Chair Steering Committee, IEEE Transactions on Cloud Computing



Rajkumar Buyya is a professor of computer science and software engineering, future fellow of the Australian Research Council, and director of the Cloud Computing and Distributed Systems (CLOUDS) Laboratory at the University of Melbourne, Australia. He was awarded the Dharma Ratnakara Memorial Trust Gold Medal in 1992 for his academic excellence at the University of Mysore, India. He received the Richard Merwin Award from the IEEE Computer Society (USA) for excellence in academic achievement and professional efforts in 1999. He received Leadership and Service Excellence Awards from the IEEE/ACM International Conference on High Performance Computing in 2000 and 2003. He received "Research Excellence Awards" from the University of Melbourne. He is a "Highly Cited Researcher" as noted by ISI. He received the Chris Wallace Award for Outstanding Research Contribution 2008. Dr. Buyya received the "2009 IEEE Medal for Excellence in Scalable Computing" for pioneering the economic paradigm for utility-oriented distributed computing platforms such as Grids and Clouds. Dr. Buyya has contributed to the creation of high-performance computing and communication system software for PARAM supercomputers developed by the Centre for Development of Advanced Computing (C-DAC), India. He has been awarded more than \$8 million in competitive research grants from various national and international organizations, including the Australian Research Council (ARC), Sun Microsystems, StorageTek, IBM, and Microsoft, CA Australia, the Australian Department of Innovation, Industry, Science, and Research (DIISR), and the European Council. Dr. Buyya has been remarkably productive in a research sense and has converted much of that knowledge into linkages with industry partners (such as IBM, Sun, and Microsoft), into software tools useful to other researchers in a variety of scientific fields, and into community endeavors. In recognition of dedicated services to the computing community for more than a decade, the President of the IEEE Computer Society presented Dr. Buyya with a Distinguished Service Award in 2008. Dr. Buyya is a senior member of both the IEEE and the IEEE Computer Society, and a life member of the ACM.