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TOPICS IN INTERNET TECHNOLOGY

This is the third issue of the Internet Technology Series of *IEEE Communications Magazine* after we assumed responsibility as editors of this series. There has been a steady and increasing number of submissions to this series, indicating a strong interest in its topics among our readers.

Eight possible articles were submitted. After a rigorous review process, we accepted only two papers for publication in this issue.

Current IP routing protocols based on routing on the shortest path can result in unbalanced distribution of packets under certain circumstances. This can result in large packet delays and losses. Recent efforts to solve these problems are based on enhancements to distribute link state information that are more pertinent to traffic engineering in routed networks. The first article, by Lai-Yat Kelvin Wong, Tariq Al-Khasib, and Hussein Alnuweiri, reports results on the performance of such a recently proposed enhancement.

Anycasting is a new networking paradigm where an identical address can be assigned to multiple nodes providing a specific service. In addition to unicast and multicast, IPv6 supports anycast addressing. The second article, by Satoshi Doi, Shingo Ata, Hiroshi Kitamura and Masayuki Murata, reviews IPv6-based anycast communication. Several problems and their possible solutions are described. The authors then present an Anycast Address Resolving Protocol to establish TCP connections with a specific anycast address, followed by their proposed routing protocol for intersegment anycasts.

This series is published in May and October every year. The quality of the series depends on the quality of articles and the stringent refereeing carried out by a large number of volunteers. We would like to thank the authors and reviewers for their time and dedication to this series. We also invite potential authors to continue submitting high-quality papers.

We would like to acknowledge the help of the Editor in Chief, Roch H. Glitho, and the IEEE editorial staff, especially Joe Milizzo and Sue Lange, for helping with the pro-

duction of this series. We welcome any comments you may have to further improve the quality of this series.

BIOGRAPHIES

MOHAMMED ATIQUZZAMAN [SM] (atiq@ou.edu) received M.Sc. and Ph.D. degrees in electrical engineering from the University of Manchester, England. Currently he is a professor in the School of Computer Science at the University of Oklahoma. He is Co-Editor-in-Chief of *Computer Communications Journal* (www.elsevier.com/locate/comcom), and serves on the editorial boards of *IEEE Communications Magazine*, *Telecommunications Systems Journal*, *Wireless and Optical Networks Journal*, and *Real Time Imaging Journal*. He has guest edited many special issues in various journals, and organized special sessions in conferences. He was technical co-chair of the 2003 Workshop on High Performance Switching and Routing, and the SPIE Quality of Service over Next-Generation Data Networks Conference (2001, 2002, 2003). He also serves on the technical program committees of many national and international conferences, including IEEE INFOCOM, IEEE GLOBECOM, and IEEE International Conference on Computers and Communication Networks. His current research interests are in wireless, satellite, and mobile networks, quality of service for next-generation Internet, broadband networks, multimedia over high-speed networks, TCP/IP over ATM, multiprocessor systems, and image processing. He is the co-author of the book *TCP/IP over ATM Networks*. He has taught many short courses to industry in the area of computer and telecommunication networking. His research has been supported by State and Federal agencies like NSF, NASA, U.S. Air Force, Ohio Board of Regents, and DITARD (Australia). He has over 130 refereed publications in the above areas, most of which can be accessed at <http://www.cs.ou.edu/~atiq>

MOHSEN GUIZANI [SM] is currently a professor and chair of the Computer Science Department at Western Michigan University. He received his B.S. (with distinction) and M.S. degrees in electrical engineering, and M.S. and Ph.D. degrees in computer engineering in 1984, 1986, 1987, and 1990, respectively, from Syracuse University, New York. His research interests include computer networks, wireless communications and computing, and optical networking. He currently serves on the editorial boards of six technical journals, and is Founder and Editor-in-Chief of *Wireless Communications and Mobile Computing Journal* (<http://www.interscience.wiley.com/jpages/1530-8669/>). He is the author of three books and in the process of writing another two. He has guest edited a number of special issues in journals and magazines. He has also served as member, Chair, and General Chair of a number of conferences, including ICC, GLOBECOM, INFOCOM, and many others. He has more than 130 publications in refereed journals and conferences. He was selected as a Distinguished Speaker for IEEE Computer Society until 2005. His research has been supported by Sprint, Telcordia, U.S. Navy, and Boeing, to name a few. He received both the Best Teaching and Excellence in Research Awards from the University of Missouri-Columbia in 1999 (a college-wide competition). He won the best Research Award from KFUPM in 1995 (a university-wide competition). He was selected as the Best Teaching Assistant for two consecutive years at Syracuse University, 1988 and 1989. He is a member of IEEE Communication Society, IEEE Computer Society, ASEE, ACM, OSA, SCS, and Tau Beta Pi.