Erratum

Multimedia Systems (1993) 1:37-49

Proactive cooperative scheduling and buffer management for multimedia networks

John-Thones Amenyo, Aurel A. Lazar, Giovanni Pacifici

Department of Electrical Engineering and Center for Telecommunications Research, Columbia University, New York, NY 10027-6699, USA
e-mail: giovanni@ctr.columbia.edu

Received January 10, 1993/Accepted April 10, 1993

Owing to an unfortunate error the pictures of Dr. Pacifici and Dr. Amenyo were interchanged during printing of the paper in Vol. 1, No. 1 on page 49. The correct arrangement is shown below.

GIOVANNI PACIFICI was born in Rome, Italy on Sept. 27, 1957. He received the "Laurea" and the "Dottore di Ricerca" degrees from Department of Information and Communication Technology at the University of Rome *La Sapienza* in 1984 and 1989, respectively. As a student, his main activities were focused on the performance evaluation of local and metropolitan area networks, with an emphasis on the integration of voice and data. In the course of his studies, he was a

visiting scholar at the Center for Telecommunications Research, Columbia University, from 1987 to 1988. In 1989, he joined the staff of the Center for Telecommunications Research as a research scientist. His current interests include network management architectures and integration of management and control of broadband integrated networks.

AUREL A. LAZAR has been a Professor of Electrical Engineering at Columbia University since 1988. His research interests span both theoretical and experimental studies of telecommunication networks and intelligent systems. The theoretical research he conducted during the 1980s pertains to the modeling, analysis and control of telecommunication networks and intelligent systems. He formulated optimal flow and admission control problems and, by building upon the theory of point

processes, derived control laws for Markovian queueing network models in a game theoretic setting. He was the chief architect of two experimental networks, generically called MAGNET. This work introduced traffic classes with explicit quality of service constraints to broadband switching and led to the concepts of schedulable and admissible load regions to real-time control of broadband networks. He is currently working on the foundations of the control and management architecture of future giant gigabit networks. Professor Lazar is the Director of the Telecommunication Networks Laboratory of the Center for Telecommunications Research, editor of *Multimedia Systems*, area editor for *Network Management and Control* of the *IEEE Transactions on Communications*, member of the editorial board of *Telecommunication Systems* and editor of the Springer monograph series on *Telecommunication Networks and Computer Systems*.

JOHN-THONES AMENYO was born in Ghana, West Africa. He received the degree of B.Sc. in Electrical Engineering and Computer Science from the Massachusetts Institute of Technology in 1979 and the degrees of M.Sc. and the Ph.D. in 1983 and 1991, respectively, from the Department of Electrical Engineering at Columbia University, New York. From 1979 to 1986, he was employed in various capacities relating to data communications network engineering at Amherst Associates,

AT&T Bell Laboratories, Wang Laboratories and Honeywell Information Systems. From 1986 to 1991, he was a graduate research assistant with the Center for Telecommunications Research at Columbia University and did research on the distributed control of high-speed, broadband networks. Dr. Amenyo is currently a research engineer in the Network Technologies Department at Advanced Network & Services, Elmsford, New York. His interests include the production deployment of ATM/SONET and B-ISDN wide-area networks and research into distributed computing, wide-area active badges, mobile computing, high-speed broadband networking, gigabit inter-networking, new generations of Internet and transport protocols, congestion control, and traffic characterization and prediction in broadband/multimedia networks. He is a member of the Internet Society.