ABOUT THE AUTHOR

Stamatios V. Kartalopoulos is with the Advanced Optical Networking Group of Lucent Technologies, Bell Labs Innovations, formerly AT&T. He holds a B.Sc. in physics, a graduate diploma in electronics, and M.Sc. and Ph.D. degrees in Engineering Science.

His most recent contributions in the area of communications are in DWDM systems, IP optical networks, SONET/SDH and ATM systems, and ultrafast pattern recognition. Since 1979 he has made technical contributions to digital loop carrier systems, local-area networks, fiber networks, satellite systems, and intelligent signal processing, including neural networks and fuzzy logic. His other contributions have been toward the definition, development, and management of advanced real-time, high-speed communications architectures and their implementation using VLSI and/or microprocessors, and the definition and development of high-speed and robust communications protocols.

Dr. Kartalopoulos has recently lectured on DWDM technology, on SONET/ SDH and ATM systems, and on neural networks and fuzzy logic at several seminars. Prior to employment with AT&T, he taught undergraduate and graduate courses and conducted research on the dynamic phenomena of optical materials, electro-optic devices, digital and analog computers, and searching algorithms.

Dr. Kartalopoulos is the author of *Understanding SONET/SDH and ATM* (IEEE Press, 1999) and *Understanding Neural Networks and Fuzzy Logic* (IEEE Press, 1996). In addition, he has published numerous articles and has been awarded many patents, including several in optical communications systems. He has also been a guest editor of the IEEE *Communications Magazine* and an associate editor of the *Transactions on Neural Networks*. In addition, he has served as vice president of the IEEE Neural Network Council and was a member of the IEEE USA Board.

A member of the IEEE and chair of the IEEE Communications Society to the Technical Emerging Technologies Committee, Dr. Kartalopoulos represents ComSoc to the Technical Activities Board (TAB) New Technology Directions Organization and is a member of the IEEE Press Board. Prior to this, he chaired the Signal Processing and Electronics Committee. He is also a member of the IEEE Communications Society Transmission, Access, and Optical Systems Committee.