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He received the B.S. degree in Electronics Engineering from Seoul National University, Seoul, Korea in 1970, and both the M.S. and Ph.D. degrees in Electrical Engineering from Cornell University, Ithaca, New York in 1976 and 1978, respectively.

His current research focuses on QoS-sensitive computing and networks as well as on embedded real-time and cyber-physical systems. He has authored/coauthored more than 900 technical articles and more than 30 patents or invention disclosures. He has co-authored (with C. M. Krishna) a textbook "Real-Time Systems," McGraw Hill, 1997. He has received numerous best paper awards from, for example, the 2011 ACM International Conference on Mobile Computing and Networking (MobiCom'2011), the 2011 IEEE International Conference on Autonomic Computing, the 2010 & 2000 USENIX Annual Technical Conference, the 2003 IEEE IWQoS, and the 1996 IEEE Real-Time Technology and Application Symposium. He also won the 2003 IEEE Communications Society William R. Bennett Prize Paper Award and the 1987 Outstanding IEEE Transactions on Automatic Control Paper Award. He has also received several *institutional awards*, including the Research Excellence Award in 1989, Outstanding Achievement Award in 1999, Service Excellence Award in 2000, Distinguished Faculty Achievement Award in 2001, and Stephen Attwood Award in 2004 from The University of Michigan (the highest honor bestowed to Michigan Engineering faculty); a Distinguished Alumni Award of the College of Engineering, Seoul National University in 2002; 2003 IEEE RTC Technical Achievement Award; and 2006 Ho-Am Prize in Engineering.

He has held visiting positions at the U.S. Airforce Flight Dynamics Laboratory, AT&T Bell Laboratories, Computer Science Division within the Department of Electrical Engineering and Computer Science at UC Berkeley, and International Computer Science Institute, Berkeley, CA, IBM T. J. Watson Research Center, Carnegie Mellon University, HP Research Laboratories, Hong Kong University of Science and Technology, Ewha Womans University in Korea, and Ecole Polytechnique Federale de Lausanne (EPFL) in Switzerland.

He is Fellow of IEEE and ACM, and overseas member of the Korean Academy of Engineering, served as the General Co-Chair for 2009 ACM Annual International Conference on Mobile Computing and Networking (MobiCom'09), was the General Chair for 2008 IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON'08), the 3rd ACM/USENIX International Conference on Mobile Systems, Applications, and Services (MobiSys'05) and 2000 IEEE Real-Time Technology and Applications Symposium (RTAS'00), the Program Chair of the 1986 IEEE Real-Time Systems Symposium (RTSS), the General Chair of the 1987 RTSS, a Program Co-Chair for the 1992 International Conference on Parallel Processing, and served numerous technical program committees. He also chaired the IEEE Technical Committee on Real-Time Systems during 1991-93, an Editor of IEEE Trans. on Parallel and Distributed Computing, and an Area Editor of International Journal of Time-Critical Computing Systems, Computer Networks, and ACM Transactions on Embedded Systems. He has also served or is serving on numerous government committees, such as the US NSF Cyber-Physical Systems Executive Committee and the Korean Government R&D Strategy Advisory Committee. He was a co-founder of two startups.