[2-1] Session A-Technology

Moderator: Carlos Perez Leguizamo (Bank of Mexico, Mexico)

(1) Control

Speaker: Farokh Bastani (University of Texas, Dallas, USA)

Topic: Control to Communication (IoT)

Biography: Dr. Farokh B. Bastani is the Excellence in Education Chair Professor of Computer Science at the University of Texas at Dallas and Director of the UTD site of the NSF Net-centric and Cloud Software and Systems Industry/University Cooperative Research Center (NSF NCSS I/UCRC). He received the B.Tech. degree in Electrical Engineering from the Indian Institute of Technology, Bombay, in 1977, and the M.S. and Ph.D. degrees in Computer Science from the University of California, Berkeley, in 1978 and 1980, respectively. His research interests include various aspects of systems engineering, especially the engineering of ultrahigh reliable software for safety-critical embedded systems, AI-based automated software synthesis and testing, embedded real-time process-control and telecommunications systems, formal methods and automated program transformation, high-assurance autonomous decentralized systems, high-confidence software reliability and safety assurance, inherently fault-tolerant and self-stabilizing distributed systems, modular parallel programs, and tele-collaborative systems. He has received funding from several agencies, including the National Science Foundation, Army Research Lab, US Nuclear Regulatory Commission, US Air Force, and the Texas Advanced Research Project. He was the Editor-in-Chief of the IEEE Transactions on Knowledge and Data Engineering (IEEE-TKDE) and has served on the Editorial Boards of several journals including the IEEE Transactions on Software Engineering, the International Journal of Artificial Intelligence Tools, the International Journal of Knowledge and Information Systems, and the Springer-Verlag series on Knowledge and Information Management.

(2) Information

Speaker: Toshiyuki Kanoh (NEC, Japan)

Topic: Concept evolution and revolution in the telecommunication, what will come next ?

Biography: Toshiyuki Kanoh

Executive Chief Engineer, Central Research Laboratories, NEC

Professor, Graduate School of Information Science Technology, Osaka University

Deputy Head, Osaka-University-NEC Brain Inspired Computing Research Alliance Laboratories

He joined NEC in 1981, and was charged in the development of Digital Signal Processor (Speech/Video signal processor, ATM cell processor, and Packet processor) for telecommunication systems. From 1995, He led the multi-gigabit switch and router system development project as senior manager of NEC System Development Department. From 2006, He moved to NEC Central Research Laboratories and led various computer and communication system platform research and development as general manager of NEC system platform research laboratories. From 2016, He started to lead the brain inspired computing platform research and development project as deputy head of Osaka University-NEC Brain Inspired Computing Alliance Research Laboratories.

(3) Service

Speaker: Yinong Chen (Arizona State University, USA)

Topic: Robot as a Service and its Application Development in Visual Programming

Biography: Yinong Chen received his Ph.D. from Karlsruhe Institute of Technology (KIT), Germany, in 1993. He did postdoctoral research at KIT in 1993 and at LAAS-CNRS (Laboratory of Architecture and Analysis of Systems - French National Scientific Research Organization), in 1994. From 1994 to 2000, he was with Wits University at Johannesburg, South Africa. He was the funding director for the High Dependable System Research Program at the university and a rated research fellow at South African National Science Foundation. Dr. Chen joined Arizona State University in 2001 and is a senior lecturer, a Ph.D. student advisor, the director of the Internet of Things and Robotics Education Laboratory in the school of Computing, Informatics, and Decision Systems Engineering, and an honors faculty in the Barrett Honors College of the university. Dr. Chen led the development of ASU VIPLE based on his research and education experience. He is an area editor of Elsevier Journal: Simulation Modeling Practice and Theory, an associate editor of International Journal of Simulation and Process Modelling, and an editorial board member of Journal of Systems & Software. Dr. Chen's primary research interests are in service-oriented computing, Robot as a Serve, Internet of Things, and computer science education. He (co-) authored over ten books and 200 technical papers in these areas.