Department of Computer and Information Sciences
Spring 2023 Colloquium

Distinguished Lecture

Towards Network Architectures and Protocols for Intelligent Digital Infrastructures

J.J. Garcia-Luna-Aceves
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Professor, University of Toronto

Abstract: The availability of vast computing resources today allows us to reimagine how wireless networks and the Internet at large could operate if far more machine intelligence were used inside the networks themselves, rather than just at the servers and clients using them, and to develop new network architectures and protocols for intelligent digital infrastructures. In this talk I describe early results of how communication protocols can be reimagined taking into account machine intelligence and memory, and outline research directions for the development of protocols for intelligent digital infrastructures.

Bio: J.J. Garcia-Luna-Aceves is a Professor in the ECE Department at the University of Toronto. He is a Distinguished Professor Emeritus at the University of California, Santa Cruz (UCSC); and has been a Principal Scientist at Xerox PARC, a Center Director at SRI International (SRI), a Principal of Protocol Design at Nokia, and Department Chair and CITRIS Campus Director at UCSC.

He was elected a Corresponding Member of the Mexican Academy of Sciences in 2013. He is an IEEE Life Fellow, and is a Fellow of the ACM, AAAS (American Association for the Advancement of Science), NAI (National Academy of Inventors), and AAIA (Asia-Pacific Artificial Intelligence Association). He received the 2023 Harry H. Goode Memorial Award from the IEEE Computer Society, the 2016 IEEE MILCOM Technical Achievement Award, the 2012 IEEE Communications Society AHSN TC Technical Recognition Award, the 2011 IEEE Computer Society Technical Achievement Award, and the 2017 George E. Pake Golden Oak Award from PARC. In addition, he received the SRI International Exceptional-Achievement Award in 1985 and 1989. He has published more than 500 papers in journals, conferences and books; holds 70 U.S. patents; and his H-index is 104.

EVENT DETAILS

DATE:
Monday, Nov. 13, 2023

TIME:
11 AM – 12:30 PM

LOCATION:
SERC 306

ATTENDANCE:
Open to all

RSVP:
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