

Ljiljana Trajkovic - nominated by IEEE Canada for the Canadian Pacific Railway Engineering Medal

Ljiljana Trajkovic is a Professor in the School of Engineering Science at Simon Fraser University. Her research deals with high-performance packet networks and projects range from measurements, characterization, and modeling of traffic in high-speed networks, to simulation of call admission and congestion control algorithms, and the application of intelligent control to communication systems. In the area of non-linear systems, Ljiljana works on developing theory and algorithms for finding dc operating points, steady-state, and transient responses of electronic circuits. In particular, she investigates the application of homotopy methods to solving non-linear equations that describe power electronic and switching circuits. The implementation of homotopy methods has led to the development of better circuit simulation tools and a better understanding of the behaviour of transistor circuits.

Ljiljana Trajkovic's contributions to IEEE Canada at the local, regional and national levels have been significant. She has served as Associate Editor of several IEEE Transactions, and on many committees and Society Offices. In particular, she has been a member of IEEE's Systems, Man and Cybernetics Society Board of Directors, a member of IEEE's Circuits and Systems Society Board of Governors, and is currently the President-Elect of IEEE's Circuits and Systems Society. As a member of the Technical Program Committee, Ljiljana has worked on 34 workshops and conferences, and has served tirelessly as a member of the Organizing/Steering Committees for several technical societies. She has also volunteered her time to mentor women and science students and has participated in co-op programs for international undergraduate engineering students.

Throughout her career as a researcher and engineer, Ljiljana Trajkovic has been able to successfully apply theoretical solutions to practical settings and to address issues of interest to the IC design community. Her in-depth understanding of the theory underlying the behaviour of non-linear systems has enabled her to build tools that are currently used in industry and continue to be further developed by the research community. Tonight we are pleased to recognize these many achievements with the conferring of a prestigious EIC medal.

Ladies and gentlemen, and Mr. President, as the Recipient of the Canadian Pacific Railway Engineering Medal, please welcome Ljiljana Trajkovic.