



P25: University of Zagreb Faculty of Electrical Engineering and Computing) - FER (Croatia)

Description of expertise & activities

Department of Telecommunications at the Faculty is responsible for education in B.Sc., M.Sc. and Ph.D. degrees in the field of telecommunications and informatics. Laboratory for Optical Networks (LON) has been active in developing optical network models for circuit, burst and packet switching paradigms, providing resource optimisation and performance evaluation. Availability models are developing for WDM network topologies, protection & restoration schemes. One of the lab activities is the development of tools for modelling, evaluation, optimization and design of resilient photonic networks including design, testing and verification of control plane protocols in the photonic networks. The tools are based on analytical and simulation methods.

Tasks within BONE

WP01	Knowledge dissemination
WP02	Co-leading WP
WP11	Protection and restoration mechanisms
WP22	GMPLS control plane

Key personnel

Branko Mikac received his B.Sc., M.Sc. and Ph.D. in Electrical Engineering from the University of Zagreb, Croatia, in 1970, 1980 and 1986, respectively. From 1970 to 1974 he worked at the Institute for Electronics, Telecommunications and Automation, Zagreb and in 1974 joined the Faculty of Electrical Engineering, University of Zagreb. Since 1992 he has been the professor at the Department of Telecommunications. His research and lectures are dealing with reliability of telecommunication systems, fault diagnosis of digital systems, digital transmission systems and optical networks. He worked on the project COST 239 and COST 266. Currently he is involved in projects e-Photon/ONe and COST 291, dealing with research in the modelling and evaluation of optical network availability and organization of teaching activities.

Marko Lackovic was born in 1979 in Zagreb, Croatia. He received his B.Sc., M.Sc. and Ph.D. in Electrical Engineering from the University of Zagreb, Croatia, 2002, 2004 and 2006, respectively. 2002 - 2003 he was working as a younger research assistant at the Telecommunication department, Faculty of Electrical Engineering and Computing in Zagreb. In period 2004 -2005 he was employed by EPFL, Lausanne, where he was focused on the optical packet switching issues, development of a computer aided network design tool and mathematical modelling of supply chains. 2005-2006 he affiliated with Ericsson Nikola Tesla R&D centre in Zagreb, Croatia. He is currently working for Huawei Technologies Co. Ltd. in Zagreb, as an optical product manager. He has lessons as guest teacher at the Faculty of Electrical Engineering and Computing, Zagreb.

He participated in COST Action 266, 285 and 291, as well as in e-Photon/ONe. He is author and co-author more than 20 scientific publications. He is one of the authors of the computer suite Cosmos. In his spare time he is pursuing a master degree in Economics.

Matko Ugrin was born on June 1980 in Sinj, Croatia. He finished High school in Sinj and continued his education at the Faculty of Electrical Engineering and Computing, University of Zagreb, where he graduated on July 2006 at the Telecommunication Department. Currently he is PhD student at the Faculty.