



P32: Alma Mater Studiorum – Università di Bologna - UNIBO (Italy)

Description of expertise & activities

The oldest University in the western countries was established in Bologna in the XI century. The networking group at the department of Electronics, Computer Science and Systems (DEIS) has research expertise on architectures, performance evaluation and switching matrix design for optical networks. In the last decade, DEIS-UniBO contributed to a number of European projects on optical networking (RACE-ATMOS, ACTS-KEOPS, IST-DAVID) and was co-ordinator of two national projects on this subject. DEIS-UniBO contributed actively to the e-Photon/ONe and e-Photon/ONe+ network of excellence, taking part to the NoE management activities, to WP coordination and to several integration activities.

Tasks within BONE

WP02	Contribution to teaching material and common master
WP03	WP co-leader, implementation and management of project Directory Service and reporting web site
WP11	WP co-leader, research on congestion resolution and scheduling in OBS/OPS networks
WP14	Switching architecture performance evaluation
WP21	Service aware optical networks implementation using the SIP protocol
WP23	Session layer for user mobility support
WP24	Impact of adaptation on end-to-end connections
WP25	Analysis of switching matrix architectures for optical interconnects

Key personnel

Franco Callegati is Assoc. Prof. of Telecommunication Networks at DEIS. His research interests are in the field of teletraffic modelling and performance evaluation of telecommunication networks. He is currently working on optical packet and burst switching. He has been active in several UE funded research projects.

Walter Cerroni is Assist. Prof. at DEIS. His research interests cover traffic performance evaluation of communication networks and architectures for very high-speed optical packet switching. He contributed to the IST DAVID Project and to national research projects on optical packet switching and grid computing infrastructures.

Giorgio Corazza is Full Professor of Telecommunication Networks at DEIS. His research interests are in the field of architectures and performance evaluation of telecommunication networks. He has been responsible of the research group at DEIS in past UE funded research projects and has been coordinating national projects on optical networking.

Carla Raffaelli is Assoc. Prof. at DEIS at the University of Bologna. Her research interests are in the field of switching systems architectures, teletraffic modelling and performance evaluation of telecommunication networks. She is working in the field of switching architectures for optical packet/burst switching and protocols for the next generation Internet. She has been active in UE funded research projects on Optical Packet Switching.