



SIGNALLING & CONTROL

Company for engineering "Signalling & Control" Ltd.
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REPUBLIC OF SERBIA – Ministry of Education, Science and Technological Development

PROGRAM:	PROGRAM OF THE TECHNOLOGICAL DEVELOPMENT
FIELD:	ELECTRONICS, TELECOMMUNICATIONS AND INFORMATION TECHNOLOGIES
PROJECT NAME:	PERFORMANCE OPTIMIZATION OF ENERGY-EFFICIENT COMPUTER AND COMMUNICATION SYSTEMS
PROJECT NUMBER:	PROJECT TR32023
PROJECT DURATION:	4 YEARS (2010 – 2014)
PROJECT LEADER:	DR. MIROSLAV LUTOVAC, SCIENCE ADVISER
PROJECT PARTICIPANTS:	STATE UNIVERSITY FROM NOVI PAZAR FACULTY OF ELECTRICAL ENGINEERING FROM BELGRADE FACULTY OF ELECTRONIC FROM NIS FACULTY OF TECHNICAL SCIENCES FROM KOSOVSKA MITROVICA FACULTY OF COMPUTERS FROM BELGRADE PUBLIC ENTERPRISE – SDPR FROM BELGRADE SIGNALLING & CONTROL D.O.O. FROM BELGRADE

ABSTRACT:

Project consists of the development of new methods and algorithms, derivation of theoretical results, experimental verification, and development of systems for more efficient usage of computer and communication systems, with the focus on performance and to consume less energy. The topic belongs to Green technologies, and the focus is on consuming less energy or to reduce contamination and waste materials of computer and communication systems. Research is on efficient algorithms for signal and data processing, mathematical modeling, efficient spectral usage, optimization of computer systems, and usage of reconfigurable systems. The results will be used in communication systems, wireless communication, image and speech processing, and business decisions. Commercial software solutions will be produced, new or as upgrade of existing, or as part of equipments and systems produced by our participants. It is planned to offer to global market the intellectual properties, joint venture with our international partners, and for own purpose, for scholars, scientists, educators, and students from universities in Serbia. The team is from 4 state universities and one private school. We will use software and hardware equipment in that the Serbian Ministry of Science already invested 200.000 euros in 2010.

