

STU
FEI

SLOVENSKÁ TECHNICKÁ
UNIVERZITA V BRATISLAVE
FAKULTA ELEKTROTECHNIKY
A INFORMATIKY

2011



INSTITUTE OF TELECOMMUNICATIONS

ANNUAL REPORT
SLOVAK UNIVERSITY OF TECHNOLOGY IN BRATISLAVA

INSTITUTE OF TELECOMMUNICATIONS

<http://www.ktl.elf.stuba.sk/portal>



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Deputy director: doc. Ing. Rastislav Róka, PhD.
Institute secretary: Mária Barbíriková
Administrative staff: Alexandra Šafariková (secretary)

General Information

A main objective of the Institute of Telecommunications is to integrate and in a proactive way evolve content-related educational, scientific, research, experimental and other professional activities. The IT guarantees subjects of the education within the scope of accredited educational programs provisioned at the Slovak University of Technology. By means of educational, scientific, research, experimental and other professional activities, the Institute of Telecommunications is responsible for development of following areas: telecommunication systems, networks and services, the signal processing and multimedia.

The brief history:

In the year 1964 – the Department of Telecommunication Engineering was established

At this time, in a theoretical domain an attention was focused above all on analyses and syntheses of electrical systems from the viewpoint of a theory of telecommunication engineering. Divisions of switching and transmission technologies were oriented on switching systems, multi-channel transmission systems, network designing and data transmission.

In the year 1980 – a department was renamed to the Department of Telecommunications

A modernization of telecommunication technologies and an expansion of the provide services' spectrum is projected also to pedagogical, research and experimental activities of the department. Our workers solved numerous projects of applied research oriented mainly in the area of Telecommunications.

In January the 9th, 2001 – the study program Telecommunications was accredited

In May the 1st, 2011 – the Institute of Telecommunications was established

At present, the IT consists of the 3 sections – Section of Digital Signal Processing, Section of Switching Systems, Section of Transmission Systems.

The pedagogical activity:

- the bachelor degree program (Bc.),
A student will achieve the entire first-stage academic background dealing with telecommunications in all aspects of the professional activity including analyzing, designing, maintaining and utilizing of systems.
- the master degree program (Ing.),
A student will achieve the entire second-stage academic background dealing with telecommunication technologies in all their aspects. It solves an extensive difficult Diploma thesis project with significant research and development parts. A student can choose

one of the following areas of the specialization:

- digital signal processing,
 - telecommunication systems, networks and services or
 - business in telecommunications or
 - security of information and telecommunication technologies,
- the doctoral degree program (PhD.),
A student will achieve the deep contemporary theoretical knowledge and methodic academic background and practical experience in key areas of Telecommunications on the level of current research state in the world.
- the whole-life education.

The Institute of Telecommunications aims at sustaining its position as a major centre of science and research. By its scientific and professional activities, the IT belongs to progressive teams – the „EUROPROJEKT 2011“ Award for exceptional contribution in the area of education and science of the project “Support for the Creation of the Center of Excellence for Smart Technologies, Systems and Services“.



Workers of the IT are members of many expert technical committees.

The IT solves multiple scientific, technical, government and international projects and has long-time fellowships with telecommunication companies and research institutes in Slovakia and abroad. The IT makes initiatives for participating in European scientific and educational projects.

- Operating program research and development. Center of excellence – SMART technologies, networks and Services I.
- Operating program research and development. Center of excellence – SMART technologies, networks and Services II.
- VEGA
- KEGA
- DAAD

The IT actively supports a development and a popularization of new telecommunication technologies by organizing and co-organizing of international conferences and workshops.

A quantity of valuable scientific publications in foreign and national scientific and professional journals and in proceedings from significant international scientific conferences shows evidence of the high professional level of the IT FEI STU members.

Telecommunications are a relatively young program consequential on long-time work and experience. Students take a high concern in the study of Telecommunications and their practical applications are extraordinary in Slovakia and abroad.

Departments of Institute of Telecommunications

Digital Signal Processing

Department chair: doc. Ing. Gregor Rozinaj, PhD.

Switching Systems

Department chair: doc. Ing. Martin Medvecký, PhD.

Transmission Systems

Department chair: prof. Ing. Peter Farkaš, DrSc.

I. STAFF

Professors:

prof. Ing. Ivan Baroňák, PhD., prof. Ing. Peter Farkaš, DrSc.,
prof. Ing. Jaroslav Polec, PhD.

Associate Professors:

doc. Ing. Ján Čuchran, PhD., doc. Ing. Martin Medvecký, PhD.,
doc. Ing. Miloš Orgoň, PhD., doc. Ing. Jarmila Pavlovičová, PhD.,
doc. Ing. Rastislav Róka, PhD., doc. Ing. Gregor Rozinaj, PhD.,
doc. Ing. Ján Zold, PhD.

Assistant Professors:

Ing. Jozef Čepko, PhD., JUDr. Štefan Gyorgy, PhD.,
Ing. Michal Halás, PhD., Ing. Ján Hodál, Ing. Richard Chomist, PhD.,
Ing. Erik Chromý, PhD., Ing. Tomáš Janvars, Ing. Juraj Kačur, PhD.,
Ing. Matej Kavacký, PhD., Ing. Ján Körösi,
Ing. Kvetoslava Kotuliaková, PhD., Ing. Juraj Mačica, PhD.,
Ing. Tomáš Páleník, PhD., Ing. Michal Polláško, PhD.,
Ing. Martin Rakús, PhD., Ing. Renáta Rybárová, PhD.,
Ing. Eva Samuhelová, Ing. Matúš Turcsány, PhD.,
Ing. Radoslav Vargic, PhD., Ing. Juraj Vojtko, PhD., Ing. Ján Vrabec

Research Workers:

Ing. Matúš Kováčik, Ing. Bakyt Kyrbashov, PhD., Ing. Miroslav Talanda,
Ing. Martin Turí Nagy, PhD.

Technical Staff:

Alexandra Šafariková (secretary), Mária Barbíriková, Michaela Bujková, Mgr. Monika Csonková, Ing. Viktor Janata, Ing. Maroš Michalík

PhD. Students:

Ing. Daniel Adamko, Ing. Mahmoud Aldaour, Ing. Tomáš Balogh, Ing. Jozef Ban, Ing. Marián Beniak, Ing. Ivan Bešťák, Ing. Monika Dávideková, Ing. Jozef Kenyeres, Ing. Stanislav Klúčik, Ing. Anna Kondelová, Ing. Adrián Kováč, Ing. Lenka Krulíkovská, Ing. Peter Kubizniak, Ing. Ján Kulík, Ing. Juraj Londák, Ing. Denisa Luknárová, Ing. Michal Mardiak, Ing. Ivan Minárik, Ing. Tibor Mišuth, Ing. Angela Mordeľová, Ing. Karol Nagy, Ing. Andrej Nesterovskij, Ing. Sandra Ondrušová, Ing. Michal Osadský, Ing. Juraj Pavlovič, Ing. Ján Pochavek, Ing. Renata Rybárová, Ing. Juraj Taraba, Ing. Adam Tisovský, Ing. Róbert Tomek, Ing. Ján Tóth, Ing. Marek Vančo, Ing. Mário Varga, Ing. Matúš Vasek, Ing. Ahmad Yassine



II. EQUIPMENT

II. 1 Teaching and Research Laboratories

- E-learning Multimedia Laboratory
- Laboratory of Data Transmission
- Laboratory of Digital Signal Processing
- Laboratory of Next Generation Networks
- Laboratory of Multimedia Communication
- Laboratory of Telecommunications Management Network

- Laboratory of Telecommunications Technology (Optical SDH, ATM, RWS)
- NGN Lab
- Audioacoustical Laboratory

II. 2 Special Measuring Instruments and Computers

- Optical Network (SDH – STM, 155 Mbit/s)
- Optical Network (ATM – 155 Mbit/s)
- Multiplexor NORTEL S/DMS 1X (16 x 2,048 Mbit/s)
- IMS platforma ALCATEL – LUCENT (Center of Excellence)
- Laboratory NGN PABX OXO Communication Server
- Private Telecommunication System ALCATEL OXE
- Testing System for Delay in IP Networks: CISCO routers 1800 and SW iX Cheriot
- FWA system (26 GHz) - VoIP via GTS Slovakia
- FWA system (3,5 GHz) - VoIP and High Speed Internet via GTS Slovakia
- Broadband experimental data network (10GIG)
- NGN platform for Testbeds and Interconnects (Fokus IMS including HSS, Sitronics HSS, Mobicents AS, PACTOLUS AS, ŽU Žilina, TU Košice)
- Telecommunications Videoconference Systems for ISDN (3 x PictureTel, 2 x I VIEW)
- Measuring set Wandel and Goltermann IBT 10 (for ISDN interface S0 and U)
- Siemens Node Integrator – Software for Simulation of TMN
- COSSAP (Software for simulation of telecommunication systems)
- Measuring set Siemens - Carrier Frequency Level Test (Set W2008-K/D2008-K)
- Logic Analyzer Philips PM 3570
- Cluster composed of 6 PC, aggregate 10,6 GHz
- Telecommunications Instructional Teaching Modelling System TIMS-301
- Spectral analyzer HP 3589A
- CAN analyzer CANLAB
- IQ Kiosk
- NVIDIA GTX480s

III. TEACHING

III. 1 Undergraduate Study (Bc.)

Subject, semester, hours per week for lectures and for seminars or practical exercises, name of the lecturer:

Telecommunication Technologies (3rd sem., 3-2 h) M. Orgoň
Telecommunication Technologies (4th sem., 3-2 h) M. Orgoň
Communication and Information Networks (4th sem., 3-2 h) M. Halás
Communication Systems (4th sem., 3-1 h) M. Rakús
Digital Communications

(4th sem., 3-2 h) P. Farkaš
 Analog and Digital Signal Processing I
 (5th sem., 3-2 h) R. Vargic
 Communication Protocols
 (5th sem., 3-2 h) K. Kotuliaková
 Communication Systems (for FIIT SUT)
 (5th sem., 3-2 h) P. Farkaš
 Mobile and Satellite Communications I
 (5th sem., 3-2 h) P. Farkaš, M. Turcsány
 Telecommunications Transmission Lines
 (5th sem., 3-2 h) J. Čuchran, R. Róka
 Analog and Digital Signal Processing II
 (6th sem., 3-2 h) J. Pavlovičová
 Digital Transmission Systems and Networks
 (6th sem., 3-2 h) J. Čuchran, R. Róka
 Switching Systems I
 (6th sem., 3-2 h) I. Baroňák

III. 2 Graduate Study (Ing.)

Digital Signal Processing
 (1st sem., 3-2 h) G. Rozinaj
 Mobile and Satellite Communications II
 (1st sem., 3-2 h) P. Farkaš, M. Turcsány
 Mobile and Satellite Communications III
 (2nd sem., 3-2 h) P. Farkaš, M. Turcsány
 Image Compression
 (1st sem., 3-2 h) J. Polec
 Switching Systems II
 (1st sem., 3-2 h) I. Baroňák
 Security of Communication Networks and Services
 (1st sem., 3-2 h) M. Orgoň
 Communications Theory (for FIIT SUT)
 (2nd sem., 2-1 h) P. Farkaš
 Architecture of Mobile and Satellite Systems
 (for FIIT SUT)
 (2nd sem., 2-1 h) P. Farkaš
 Integration of Digital Networks and Services
 (2nd sem., 3-2 h) E. Chromý
 Probabilistic Models in Telecommunications
 (2nd sem., 3-2 h) J. Polec
 Broadband Switching Systems
 (3rd sem., 3-2 h) M. Medvecký
 Digital Image Processing
 (3rd sem., 3-2 h) J. Pavlovičová
 Digital Speech Processing
 (3rd sem., 3-2 h) G. Rozinaj
 Classification methods for signal processing
 (3rd sem., 3-2 h) J. Kačur
 Optical Communication Systems and Networks
 (3rd sem., 3-2 h) R. Róka
 Private Telecommunication Networks and Services
 (3rd sem., 2-3 h) I. Baroňák
 Telecommunication Legislative
 (3rd sem., 2-3 h) I. Baroňák
 Telecommunication Systems Management
 (3rd sem., 3-2 h) M. Medvecký

Wavelets and Filter Banks
 (3rd sem., 3-2 h) R. Vargic



IV. RESEARCH PROJECTS

IV. 1 National Scientific Projects

- Operating program research and development. Center of excellence – SMART technologies, networks and Services I. (IMS Platform for NGN). OPVaV - 2008/4.1/01–SORO. Duration: 2009 – 2011 (completed) (I. Baroňák)
- Operating program research and development. Center of excellence – SMART technologies, networks and Services II. (IMS Platform for NGN). OPVaV - 2008/4.1/01–SORO. Duration: 2010-2013 (solved) (I. Baroňák)
- Modelling of traffic parameters in NGN telecommunication systems and networks. VEGA - 1/0565/09. Duration: 2009 – 2011 (completed) (I. Baroňák)
- Advancement of coding technologies. VEGA 1/0376/09. Duration: 2009-2012 (solved) (P. Farkaš)
- Video cut detection. STU grant. Duration: 2011-2012 (solved) (L. Krulikovská)
- Analysis of speech prosody in multimodal speech synthesizer. STU grant. Duration: 2011-2012 (solved) (A. Kondelová)
- Advanced Image Processing Algorithms for Effective Human Face Retrieval and Coding. VEGA 1/0961/11. Duration: 2011-2013 (solved) (J. Pavlovičová)
- The Optimization of Video Coding Efficiency for Transmission and Record. VEGA 1/0602/11. Duration: 2011-2013 (solved) (J. Polec)
- The Development of Digital Literacy in Primary and Secondary School. KEGA 119-005TVU-4/2010. Duration: 2010-2011 (completed) (J. Polec)
- Analysis and Proposal for Advanced Optical Access Networks in the NGN Converged Infrastructure Utilizing Fixed Transmission Media for Supporting Multimedia Services. VEGA 1/0106/11. Duration:

- 2011-2013 (solved) (R. Róka)
- Algorithms and Methods of Multimedia Signal Processing for Human Machine Interface. VEGA 1/0718/09. Duration: 2009-2011 (completed) (G. Rozinaj)
- Multimedia Services and Applications in the Environment of New Generation Converged Network Infrastructure. VEGA 1/0720/09. Duration: 2009-2011 (completed) (R.Vargic)

IV. 2 International Scientific Project

- Audio-speech interface for mobile devices, DAAD Duration: 2010-2011 (completed) (G. Rozinaj)



V. COOPERATION

V. 1 Cooperation in Slovakia

- Alcasys
- Alcatel Lucent Slovakia
- ALISON Slovakia
- API
- Comenius University in Bratislava
- Council for Broadcasting and Retransmission
- Ericsson Slovakia, Bratislava
- GTS Slovakia
- ITM
- Methodical Pedagogical Centers
- Ministry of Agriculture of Slovak Republic
- Ministry of Economy of Slovak Republic
- Ministry of Interior of Slovak Republic
- Ministry of Transport, Construction and Regional development of Slovak Republic
- NextiraOne
- Nokia Siemens networks
- NVIDIA, USA
- Orange Slovakia
- PROFiber Networking, Trnava
- PTT Research Institute, Banská Bystrica
- Siemens PSE Slovakia
- Slovak Agricultural University in Nitra
- Slovak Association of Electrotechnical Companies
- Slovak Statistical Office of Slovak Republic

- Slovak Telekom
- Society of Lifelong Learning in Bratislava
- Technical University in Košice
- Telecommunication Office of Slovak Republic
- Telecommunication Users Group Slovakia
- Tesla, Liptovský Hrádok
- University of Trnava
- University of Žilina
- Constantine the Philosopher University, Nitra
- WiMAX Slovakia

V. 2 International Cooperation

- Aalborg University Center for Person Kommunikation, Denmark
- Alcatel Stuttgart, Germany
- ARC Seibersdorf research GmbH, Austria
- Budapest Polytechnic, Hungary
- CELN Prague, CR
- Croatian Academy of Engineering, Zagreb, HR
- ČVUT in Prague, CR
- Deutsche Telecom Laboratory in Berlin
- Deutsche Telecom University in Leipzig
- Ericsson, Sweden
- École Nationale des Télécommunications de Bretagne (ENST)
- EMMERCE EEIG, Linköping, Sweden
- Fachhochschule Heilbronn, Germany
- Fachhochschule Oldenburg, Ostfriesland, Wilhelmshaven, University of Applied Sciences, Germany
- Economic Chamber, CR
- Institut National des Télécommunications (INT), Evry, France
- ISEP Paris, France
- Kingston University, Faculty of Technology, the UK
- Lancaster University, the UK
- The Charta 77 Foundation, CR
- Nortel, Vienna, Austria
- Polish Academy of Sciences Gliwice, Poland
- Politechnica Poznań, Poland
- Politecnico di Milano
- Portugal Telecom Inovacao (PT Inovacao)
- Rechenzentrum der RWTH Aachen, Germany
- Siemens Vienna, Austria
- T-Mobile, CR
- Telenor, Norway
- The National and Kapodistrian University of Athens, Greece
- TU Budapest, Hungary
- TU Graz, Austria
- TU Ljubljana, Slovenia
- TU Maribor, Slovenia
- TU Wien, Austria
- TU Zagreb, Croatia
- TU Tampere
- University of Central Lancashire, the UK
- University of Strathclyde, Glasgow, the UK

- University of Versailles, France
- University of West Bohemia in Pilsen, CR
- University of Hradec Kralove, CR
- UPC Barcelona, Spain
- VŠB TU in Ostrava, CR
- VUT in Brno, CR

VI. THESES

VI. 1 Master Theses

Master theses written as part of the 5-year-study plan supervised at the Department of Telecommunications. The names of supervisors are in brackets:

- [1] Ambruš, I.: Utilization of MPLS - TP technology in transport networks NGN (M. Medvecký)
- [2] Bačkády, L.: Compression of speech signals (J. Kačur)
- [3] Bako, P.: Measurement of the transmission parameters of fiber optic connectors for singlemode fiber (R. Róka)
- [4] Bakšová, I.: Designing and simulating a network architecture for a medium-sized company (R. Róka)
- [5] Baránek, P.: Conception of effective communication in ad-hoc network (J. Kenyeres)
- [6] Bartovič, K.: Utilization of modulation techniques in optical transmission media (R. Róka)
- [7] Belobrad, J.: New applications for IPTV (J. Londák)
- [8] Bešták, I.: Communication security in power line distribution (M. Orgoň)
- [9] Bogdanov, P.: Modeling system for error analysis of the selected digital transmission system (M. Rakús)
- [10] Borik, L.: Approximation of language model based on detection of vowels (J. Körösi)
- [11] Bunčák, M.: Analysis of signal self-similarity (R. Vargic)
- [12] Dedíková, Z.: Slovak unit selection speech synthesis (J. Čepko)
- [13] Čirke, D.: Measurements on WSN platform crossbow (T. Páleník)
- [14] Dávideková, M.: Application of two-dimensional signatures in mobile wireless systems (P. Farkaš)
- [15] Dujsík, J.: VoIP in environment of private networks (M. Kavacký)
- [16] Fehér, Z.: Communication networks over power distribution lines (R. Róka)
- [17] Florek, I.: Central error management in non-homogeneous telecommunications networks (M. Medvecký)
- [18] Frlíčka, M.: Providing QoS in IMS (B. Kyrbashov)
- [19] Gavorník, M.: ICT management using SOA architecture (M. Medvecký)
- [20] Gramblička, P.: Tonal detection and identification in audio signals (R. Vargic)
- [21] Grenčík, J.: Program to learn encoding and decoding of linear block codes (E. Samuhelová)
- [22] Hangáč, V.: Creating a software environment for virtual learning Applications (M. Orgoň)
- [23] Horváth, F.: Proposal for metropolitan area network using ethernet technology (M. Medvecký)
- [24] Hucíková, M.: Ensuring the quality of connection over VoIP networks (M. Halás)
- [25] Hudec, M.: Evaluation of methods for texture synthesis using classification (J. Polec)
- [26] Jankovič, P.: Analysis of utilization xDSL technologies with taking account on comprehension to converged NGN network (J. Čuchran)
- [27] Juhos, L.: VoIP and its interworking with classical telecommunication networks (M. Halás)
- [28] Jurkovič, J.: Traffic protection using optical media for information transmission (R. Róka)
- [29] Kližan, P.: Cut detection in video-sequences (L. Krulikovská)
- [30] Klúčovský, D.: Video streaming as a multimedia service in NGN (Next Generation Networks) (J. Londák)
- [31] Kmeť, J.: Calling through VoIP technologies (M. Talanda)
- [32] Kohautová, V.: Web applications for IPTV (J. Londák)
- [33] Korytiak, M.: The impact of IPsec on quality of VoIP call (Ing M. Halás)
- [34] Kováč, P.: Simulation of VoIP traffic in IP multimedia subsystem environment based on OpenIMSCore (B. Kyrbashov)
- [35] Král, M.: Design of access network given to operate services to households, small and medium-sized companies (M. Kavacký)
- [36] Krčmáriková, J.: E-learning course: satellite navigation system GALILEO (M. Rakús)
- [37] Kumorovitz, M.: The Slovak language statistical model (J. Kačur)
- [38] Lengyel, N.: Video Shot Cut Detection (J. Pavlovičová)
- [39] Lenický, P.: Draft of structured cabling in combination with PLC technology (R. Róka)
- [40] Lőrinc, J.: Factor-graph utilization (P. Farkaš)
- [41] Majerčák, M.: Possibility of usage interactive graphic webtechnologies (B. Mišota)
- [42] Makovínyi, P.: Speech synthesis in mobile phone using parametric database (R. Rybárová)
- [43] Malá, T.: Compression of audio signals (J. Kačur)
- [44] Masaryk, P.: Simulations of communication system in an OFDM mobile channel (T. Páleník)
- [45] Matula, M.: Design and implementation of personal and professional website of university teacher (P. Farkaš)
- [46] Mičuch, J.: Preventive mechanisms of the traffic management in the IP systems (I. Baroňák)

- [47] Minárik, I.: Coding of audio signals at low speed (M. Turi Nagy)
- [48] Mlynár, M.: Image coding using Gabor filters (M. Osadský)
- [49] Mokráň, M.: Quality maintenance of VoIP connection (M. Halás)
- [50] Moravec, R.: Vulnerability and security in network IP (K. Kotuliaková)
- [51] Moucha V.: Applications at IP multimedia subsystem (R. Vargic)
- [52] Muráň, M.: VoIP Technologies and their application in the private networks (M. Talanda)
- [53] Nagy, K.: Analysis of turbo type decoding (P. Farkaš)
- [54] Nedeliak, P.: Analysis exploitation service xDSL in consideration of incorporation in converge networks NGN (J. Čuchran)
- [55] Obert, I.: The creation of the speech databases (G. Rozinaj)
- [56] Ondrejkovič, P.: Analysis IP protocols in mobile networks (K. Kotuliaková)
- [57] Ondruš, M.: Securing safety of corporate infrastructure (M. Orgoň)
- [58] Oravec, R.: Use of data transmission in mobile environments (R. Róka)
- [59] Páterek, J.: Data networks for the distribution of energy (R. Róka)
- [60] Písch, D.: Mobile communication security in Bluetooth network (D. Adamko)
- [61] Pjatrik, S.: Qualitative parameters of selected services IPTV from customer view (end-to-end) and their management in NGN environment (J. Londák)
- [62] Rozinaj, M.: Analyse of interference in wireless sensor networks (M. Rakús)
- [63] Ružička, R.: Measurement-based admission control (E. Chromý)
- [64] Sitek, A.: Carrier Ethernet technology in metropolitan area networks (R. Róka)
- [65] Slovák, M.: Utilization of Ethernet technology in optical access networks (R. Róka)
- [66] Sokírka, M.: Protocol TCP over wireless systems (R. Róka)
- [67] Straka, M.: Modeling of multimedia traffic in NGN (T. Balogh)
- [68] Száraz, G.: Implementation of VoIP technology (M. Talanda)
- [69] Szilvássy R.: The optimalization of routing of the traffic of multipoint connections in telecommunication networks (L. Krulikovská)
- [70] Ševcov, M.: Methods to ensure QoS in MPLS networks (M. Medvecký)
- [71] Ševčík, J.: Application, implementation and measurement of metallic homogenous symmetric line model function (J. Čuchran)
- [72] Škulavík, J.: Security analysis of Hitag2 cards (M. Orgoň)
- [73] Šroba, L.: Decoding of turbo codes by using iterative graph algorithms (T. Páleník)
- [74] Štajger, P.: Distributed algorithms for wireless sensor networks (P. Farkaš)
- [75] Štefančík, J.: Impact of synchronization errors on the transmission error rate in OFDM systems (T. Páleník)
- [76] Tichý, M.: Voice navigation in the library system (G. Rozinaj)
- [77] Turiak, F.: The possibility of realization rapid turbo decoder (P. Farkaš)
- [78] Vacho, M.: Interference between wireless sensor networks and other communication technologies (T. Páleník)
- [79] Vajíček, M.: Use of Ethernet technology in transport networks (M. Medvecký)
- [80] Vančo, M.: Pronunciation of numerals in speech synthesis (G. Rozinaj)
- [81] Varga, M.: Parametrization of signals in automatic speech recognition process (J. Kačur)
- [82] Vasek, M.: Phonetic transcript of text for speech synthesis (G. Rozinaj)
- [83] Vašek, M.: Masking errors in photorealistic pictures (J. Polec)
- [84] Vincek, P.: Multiplexion technology WDM in optical transport networks (R. Róka)
- [85] Vozár, M.: VoIP technology and their applications in an environment of non-public networks (M. Talanda)
- [86] Weber, M.: Erlangs formulas and their utilization in asynchronous networks (E. Chromý)
- [87] Weber, M.: Admission control methods in NGN networks (E. Chromý)
- [88] Zámečníková, M.: Educational model for ARQ methods (K. Kotuliaková)
- [89] Zeman, M.: Technologies in LTE – comparison of OFDM and SC-FDMA (T. Páleník)

VI. 2 PhD. Theses

- [1] Ondrušová, S.: Approximation and interpolation of object boundaries for transform coding (J. Polec)
- [2] Osadský, M.: Object oriented image coding (J. Polec)
- [3] Páleník, A.: Modelling and synthesis of Slovak prosody (G. Rozinaj)
- [4] Poctavek, J.: Error modelling of data channels (J. Polec)
- [5] Rybárová, R.: Learning Methods in Speech Synthesis (G. Rozinaj)
- [6] Vojtko, J.: Adaptation of acoustic model training practise for automatic speech recognition system for Slovak language (G. Rozinaj)
- [7] Treiber, A.: Design and Benchmarking of Acoustic Feedback in Human Machine Interface (G. Rozinaj)
- [8] Yassine, A.: One Hybrid ARQ for Broadcasting or Multicasting in Wireless Erasure Channel (P. Farkaš)

VII. OTHER ACTIVITIES

VII. 1 Conferences and Seminars Organized by the Department

- ELOSYS 2011, October 2011 Trenčín, Slovak Republic, (cooperation with FEI STU Bratislava)
- 13th Conference of Doctoral Students - ELITECH 2011, May 2011, Bratislava, Slovak Republic, (cooperation with FEI STU Bratislava)
- 5th International Workshop on Speech and Signal Processing Redžúr 2011, May 2011 Bratislava, Slovak Republic, (cooperation with FEI STU Bratislava)
- Conference: World Telecommunication and Information Society Day 2011 (WTISD), May 2011, Bratislava, Slovak Republic, (cooperation with SES)
- International Conference - RTT 2011 – Research Telecommunication Technology 2011, September 2011, Brno, Czech Republic, (cooperation with FEEC BUT Brno)
- 34th International Conference on Telecommunications and Signal Processing - TSP 2011, July 2011, Budapest, Hungary, (cooperation with FEEC BUT Brno)

VIII. MEMBERSHIP IN INSTITUTIONS/ COMMITTEES

VIII. 1 Membership in National Institutions/Committees

- I. Baroňák: ETS norms, member of National Committee TNK No. 41 for Telecommunications,
- Transformation of ETS Norms in National Environment
- I. Baroňák: Award of J.Murgaš 2011: member of Committee MDPT SR a SES, Selection Candidate of Award of J.Murgaš for Year 2011
- I. Baroňák: Member of Grant Committee of Ministry of Transport, Construction and Regional Development of Slovak Republic, Bratislava
- I. Baroňák: Scientific Board of the Faculty, Slovak University of Technology in Bratislava, Faculty of Electrical Engineering and Information Technology
- I. Baroňák: Scientific Board of the Faculty, University of Žilina, Faculty of Electrical Engineering
- I. Baroňák: VEGA, projects reviewer
- I. Baroňák: APVV (Slovak Research and Development Agency), projects reviewer
- P. Farkaš: Accreditations Committee of Slovak Government - working group for information sciences, information and communication technologies with responsibility also for the area of automation and telecommunications

- J. Pavlovičová: Scientific Board of the Faculty, Slovak University of Technology in Bratislava, Faculty of Electrical Engineering and Information Technology
- J. Pavlovičová: Head of review committee for ESKAS Scholarship (Switzerland), SAIA 2012
- J. Pavlovičová: KEGA, projects reviewer
- J. Polec: VEGA, projects reviewer
- J. Polec: KEGA, projects reviewer
- J. Polec: Foundation of SPP, projects reviewer
- R. Róka: KEGA, projects reviewer

VIII. 2 Membership in International Institution/Committees

- I. Baroňák: ETSI
- I. Baroňák: CTF in Slovak Republic, Executive committee member CTF in Slovak Republic
- I. Baroňák: Conference with International Participation: ELOSYS 2011, October 2011, Trenčín, Slovak Republic, member of Program committee,
- I. Baroňák: International Conference - RTT 2011 – Research Telecommunication Technology 2011, Brno, Czech Republic, September 2011, member of Program Committee
- I. Baroňák: 4th International Conference - NIMT 2011 – New Information and Multimedia Technologies, Brno University of Technology, September 2011, Brno, member of scientific Committee
- I. Baroňák: ICETA 2011 – International Conference on Emerging Telecommunications Technologies and Applications, Košice, Slovak Republic, November 2011, member of Program Committee
- I. Baroňák: Journal: Elektrovrevue, member of Editorial Board
- I. Baroňák: Journal: AEEE (Advances in Electrical and Electronic Engineering), member of Editorial Board and reviewer
- I. Baroňák: Journal: Radioengineering, member of Editorial Board and reviewer
- I. Baroňák: GAČR (Grant Agency of Czech Republic), projects reviewer
- I. Baroňák: Journal of Electrical Engineering, reviewer
- I. Baroňák: Journal: Acta electrotechnica et informatica, reviewer
- I. Baroňák: Journal: Integrated Computer-Aided Engineering, reviewer
- I. Baroňák: Conference: World Telecommunication and Information Society Day 2011 (WTISD), May 2011, Bratislava, Slovak Republic, (cooperation with SES), chairman of Program committee
- M. Beniak: Workshop Redžúr 2011, reviewer
- P. Farkaš: IEEE Communications Letters and IEEE Transactions on Signal Processing, reviewer
- P. Farkaš: SDR 2011 – WinnComm, Software Defined Radio –Wireless Innovation Conference and Produkt Exposition 29. 11. – 2. 12. 2011, Washington, DC, USA, TPC member
- P. Farkaš: Teneth Annual Wireless Telecommunications

- Symposium, WTS 2011, April 13-15, 2011, New York City, New York, USA, TPC member
- P. Farkaš: European Wireless Conference, EW 2011, 27. 4. – 29. 4. 2011, Viedeň Rakúsko, TPC member,
 - P. Farkaš: 5-th International Conference on Signal Processing and Communication Systems, ICSPCS 2011, 12. 12. -14. 12. 2011, Honolulu, Hawaii, USA, TPC member
 - P. Farkaš: Twentieth International Electrotechnical and Computer Science Conference. Portorož, Slovenia, September 19-21, 2011, TPC member
 - P. Farkaš: The 4-th IET International Conference on Wireless, Mobile & Multimedia Networks, ICWMMN 2011, 27.30. 11. 2011 Beijing, China, TPC member
 - P. Farkaš: Elsevier Journal: Computers & Electrical Engineering, reviewer
 - P. Farkaš: Journal of Electrical Engineering, reviewer
 - P. Farkaš: GAČR (Grant Agency of Czech Republic), project reviewer
 - P. Farkaš: Radioengineering, reviewer
 - P. Farkaš: Slaboproudý obzor , member of Editorial Board of the journal
 - P. Farkaš: IEEE, IEEE Czechoslovakia Chapter - Executive Committee member P. Farkaš: URSI – Official Member in Scientific Commission C - Signals and Systems
 - P. Farkaš: European Polytechnical University, Pernik, Bulgaria, Scientific Board member
 - E. Chromý: Conference KTTO 2011, Szczyrk, Poland, member of Scientific and Programme Committee and reviewer
 - E. Chromý: Conference TSP 2011, Budapest, Hungary, reviewer
 - E. Chromý: Journal Advances in Electrical and Electronic Engineering, member of International Scientific Editorial Board and reviewer
 - E. Chromý: Electrotechnics magazine - Elektrotechnika, reviewer
 - E. Chromý: Conference: World Telecommunication and Information Society Day 2011 (WTISD), May 2011, Bratislava, Slovak Republic, (cooperation with SES), member of Program and Organizing Committee
 - J. Kačur: EURASIP Journal on Advances in Signal Processing, reviewer
 - J. Kačur: IJCNIS, reviewer
 - J. Kačur: Workshop Redžúr 2011, member of Program and Reviewers Committees
 - J. Kačur: Workshop Redžúr 2011, Session Chair
 - M. Kavacký: Journal Advances in Electrical and Electronic Engineering, member of Scientific editorial board, reviewer
 - A. Kondelová: Workshop Redžúr 2011, member of Organizing and Reviewers Committees
 - K. Kotuliaková: Conference RTT2011, member of Program and Reviewers Committees
 - K. Kotuliaková: Journal of Electrical Engineering, reviewer
 - K. Kotuliaková: Conference TSP2011, reviewer
 - J. Kőrösi: Workshop Redžúr 2011, reviewer
 - P. Kubizniak: IEEE
 - J. Londák: Workshop Redžúr 2011, member of Organizing and Reviewers Committees
 - M. Medvecký: Journal - Advanced in Electrical and Electronic Engineering, reviewer
 - M. Medvecký: Conference TSP2011, Budapest, Hungary, Scientific Programme Committee member
 - M. Medvecký: Journal - Advanced in Electrical and Electronic Engineering, reviewer
 - M. Medvecký: Conference TSP2011, Budapest, Hungary, Scientific Programme Committee member
 - M. Medvecký: Conference TSP2011, Budapest, Hungary, reviewer
 - M. Medvecký: Conference ELOSYS 2011, chairman of the section
 - M. Medvecký: CTF in Slovak Republic
 - M. Orgoň: Conference KTTO 2011, Ostrava, Czech Republic, reviewer
 - M. Orgoň: Journal - Advances in Electrical and Electronic Engineering, 2011, Ostrava, Czech Republic, member of Editorial Board and reviewer
 - M. Orgoň: Conference TSP, 2011, Wien, Austria, reviewer
 - M. Orgoň: Conference RTT, 2011, Ostrava, Czech Republic, reviewer
 - M. Orgoň: Conference ELOSYS 2011, member of Program and Reviewers Committees
 - M. Orgoň: Radioengineering, reviewer
 - J. Pavlovičová: Journal of Electrical Engineering, reviewer
 - J. Pavlovičová: ELITECH`11, member of Program and Review Committee
 - J. Pavlovičová: Workshop Redžúr 2011, member of Program and Review Committee
 - J. Pavlovičová: Workshop Redžúr 2011, Session Chair
 - T. Páleník: IEEE
 - T. Páleník: Conference TSP 2011, Budapest, Hungary, reviewer
 - J. Polec: Radioengineering, member of Editorial Board and reviewer
 - J. Polec: IEEE Transaction on Image Processing, reviewer
 - J. Polec: GAČR (Grant Agency of Czech Republic), projects reviewer
 - J. Polec: Acta Electrotechnica et Informatica, reviewer
 - J. Polec: Workshop Redžúr 2011, reviewer
 - M. Poľaško: IEEE
 - M. Rakús: IEEE
 - R. Róka: IEEE
 - R. Róka: International Journal of Communication Networks and Information Security, Area Editor
 - R. Róka: International Journal of Communication Networks and Information Security, member of the Editorial Board and reviewer
 - R. Róka: International Journal of Research and

- Reviews in Computer Science, member of the Editorial Board and reviewer
- R. Róka: Advances in Electrical and Electronic Engineering Journal, reviewer
 - R. Róka: Elektrotechnika Journal, reviewer
 - R. Róka: Radioengineering Journal, reviewer
 - R. Róka: Conference ELITECH 2011, member of the Programme and Review Committee, chairman of the session and reviewer
 - R. Róka: CTF in Slovak Republic
 - R. Róka: Conference ELOSYS 2011, chairman of the section
 - R. Róka: Conference KTTO 2011, member of the Review Committee and reviewer
 - R. Róka: Conference RTT 2011, member of the Programme Committee and reviewer
 - R. Róka: Conference TSP 2011, member of the Scientific Programme Committee and reviewer
 - G. Rozinaj: IET
 - G. Rozinaj: Workshop Redžúr 2011, General Chair
 - G. Rozinaj: Workshop Redžúr 2011, member of Program and Reviewers Committees
 - G. Rozinaj: International Journal of Signal and Imaging Systems Engineering (IJSISE) member of Editorial board
 - G. Rozinaj: Conference IWSSIP 2011, member of Program and Reviewers Committees
 - G. Rozinaj: Journal of Electrical Engineering, reviewer
 - G. Rozinaj: Acta Electrotechnica et Informatica, member of Editorial Board
 - G. Rozinaj: EURASIP Journal on Advances in Signal Processing, member of Editorial Board
 - G. Rozinaj: Conference ELMAR 2011, member of Program and Reviewers Committees, invited lecturer, chairman of the session
 - R. Rybárová: Workshop Redžúr 2011, reviewer
 - J. Tóth: Workshop Redžúr 2011, member of Organizing and Reviewers Committees
 - M. Turi Nagy: Workshop Redžúr 2011, member of Organizing, Program and Reviewers Committees
 - R. Vargic: Workshop Redžúr 2011, reviewer
 - R. Vargic: Radioengineering, reviewer
 - R. Vargic: Elektrotechnika, reviewer
 - R. Vargic: EURASIP Journal on Advances in Signal Processing, reviewer
 - R. Vargic: Konferencia Radioelektronika2011, Brno, reviewer
 - R. Vargic: Konferencia TSP2011, Budapest, reviewer
 - J. Vojtko: Workshop Redžúr 2011, reviewer
 - J. Vojtko: Workshop Redžúr 2011, Organizing Committee Chair

IX. PUBLICATIONS

IX. 1 Journals

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- [2] BENIAK, M. - PAVLOVIČOVÁ, J. - ORAVEC, M.: 3D Chrominance Histogram Based Face Localisation. In: International Journal of Signal and Imaging Systems Engineering. - ISSN 1748-0701 (on-line). - ISSN 1748-0698 (print). - Vol. 4, Iss. 1 (2011), p. 3-12. (in English)
- [3] BEŠŤÁK, I. - ORGOŇ, M.: Accelerating the Construction of Wide Band Access Network in Slovakia. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 17, No. 6 (2011), 12-13, 33. (in Slovak)
- [4] CHOVAN, R. - BAROŇÁK, I.: Application IMS in Region. In: Posterus. - ISSN 1338-0087. - December (2011), <http://www.posterus.sk/?p=12264>. (in Slovak)
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- [16] MEDVECKÝ, M.: The Efficiency of Constraint Based Routing in MPLS Networks. In: Advances in Electrical and Electronic Engineering. - ISSN 1336-1376. - Vol. 9, No.5 (2011), p. 196-205. (in English)
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- [18] MLÝNEK, P. - MIŠUREC, J. - KOUTNÝ, M. - ORGOŇ, M.: Power Line Cable Transfer Function for Modelling of Power Line Communication System. In: Journal of Electrical Engineering. - ISSN 1335-3632. - Vol. 62, No. 2 (2011), p. 104-108. (in English)
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- [20] ONDRUŠOVÁ, S. - POLEC, J.: Shape Error Concealment for Shape Independent Transform Coding. In: World Academy of Science, Engineering and Technology. - ISSN 2010-376X. - Iss. 79 (2011), p. 686-689. (in English)
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- [30] WEBER, A. - CHROMÝ, E.: Erlang Formulas and their Use in Asynchronous Networks. In: Posterus. - ISSN 1338-0087. - October (2011), <http://www.posterus.sk/?p=11871>. (in Slovak)
- [31] ZBONČÁK, J. - KAVACKÝ, M.: Quality of Service and Quality of Experience. In: Posterus. - ISSN 1338-0087. - November (2011), <http://www.posterus.sk/?p=11948>. (in Slovak)
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IX. 2 Conference Proceedings

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- [2] BALOGH, T. - MEDVECKÝ, M.: Packet Prioritization in Qos Supporting. In: ELITECH'11 : 13th Conference of Doctoral Students Faculty of Electrical Engineering and Information Technology. Bratislava, Slovak Republic, 17 May, 2011. - Bratislava : Nakladateľstvo STU, 2011. - ISBN 978-80-227-3500-1. - p. 1-5. (in English)
- [3] BALOGH, T. - MEDVECKÝ, M.: Performance Evaluation of WFQ, WF2Q+ And WRR Queue Scheduling Algorithms. In: Telecommunications and Signal Processing TSP-2011 : 34th International Conference. Budapest, Hungary, 18.-20.8.2011. - Brno : VUT v Brně, 2011. - ISBN 978-1-14577-1409-2. - p. 136-140. (in English)
- [4] BAN, J. - FÉDER, M. - ORAVEC, M. - PAVLOVIČOVÁ, J.: Enhancement of One Sample per Person Face Recognition Accuracy by Training Sets Extension. In: Proceedings ELMAR-2011 : 53rd International Symposium. 14-16 September 2011, Zadar, Croatia. - Zadar : Croatian Society Electronics in Marine, 2011. - ISBN 978-953-7044-12-1. - p. 25-28. (in English)
- [5] BAROŇÁK, I. - CHOVAN, R.: Application of the IMS Platform in Defined Region Infrastructure. In: New Information and Multimedia Technologies. NIMT - 2011 : Brno, Czech Republic, 15.-16.9.2011. - Brno : Brno University of Technology, 2011. - ISBN 978-80-214-4241-2. - p. 52-59. (in English)
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- [12] BUNČÁK, M. - VARGIC, R.: Deterministic and Statistical Self-Similarity. In: Proceedings Redžúr 2011 : 5th International Workshop on Multimedia and Signal Processing. May 12, 2011, Bratislava, Slovak Republic. - Bratislava : Nakladateľstvo STU, 2011. - ISBN 978-80-227-3506-3. - p. 65-69. (in English)
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