

DEPARTMENT OF TELECOMMUNICATIONS

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

Head of Department

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I. STAFF

Professors	Prof. Ing. Ivan Baroňák, PhD., Prof. Ing. Peter Farkaš, DrSc., Prof. Ing. Pavol Podhradský, PhD., Prof. Ing. Jaroslav Polec, PhD.
Associate Professors	Doc. RNDr. Ing. Ivan Bajla, PhD., 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 Zodl, PhD.
Assistant Professors	Ing. Jozef Čepko, PhD., Bc. Zuzana Dedíková, Ing. Jana Filanová, 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. Stanislav Majchrák, Ing. Tomáš Páleník, PhD., Ing. Michal Pofaško, PhD., Ing. Martin Rakús, PhD., Ing. Eva Samuhelová, Ing. Matúš Turcsány, PhD., Ing. Radoslav Vargic, PhD., Ing. Juraj Vojtko, Ing. Ján Vrabc
Research Workers	Ing. Matúš Kováčik, Ing. Bakyt Kyrbashov, PhD., Ing. Miroslav Talanda, Ing. Martin Turi Nagy, PhD.
Technical Staff	Alexandra Šafariková (secretary), Mária Barbíriková, Michaela Bujková, Ing. Rozália Hudíková, Ing. Viktor Janata, Ing. Maroš Michalík
PhD. Students	Ing. Daniel Adamko, Ing. Mahmoud Aldaour, Ing. Tomáš Balogh, Ing. Jozef Ban, Ing. Marián Beniák, Ing. Peter Fízel, 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. Tibor Mišuth, Ing. Andrej Nesterovskij, Ing. Sandra Ondrušová, Ing. Michal Osadský, Ing. Andrej Páleník, Ing. Juraj Pavlovič, Ing. Ján Poctavek, Ing. Renata Rybárová, Ing. Juraj Taraba, Ing. Adam Tisovský, Ing. Róbert Tomek, Ing. Ján Tóth, Ing. Martin Wolf, 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
- 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., 3-2h)	M. Orgoň
Telecommunication Technologies	(4th sem., 3-2h)	M. Orgoň
Communication and Information Networks	(4th sem., 3-2h)	M. Halás
Communication Systems	(4th sem., 3-1h)	M. Rakús
Digital Communications	(4th sem., 3-2h)	P. Farkaš
Analog and Digital Signal Processing I	(5th sem., 3-2h)	R. Vargic
Communication Protocols	(5th sem., 3-2h)	M. Poľáško
Communication Systems (for FIIT SUT)	(5th sem., 3-2h)	P. Farkaš
Mobile and Satellite Communications I	(5th sem., 3-2h)	P. Farkaš, M. Turcsány
Telecommunications Lines	(5th sem., 3-2h)	J. Čuchran, R. Róka
Analog and Digital Signal Processing II	(6th sem., 3-2h)	J. Pavlovičová
Digital Transmission Systems and Networks	(6th sem., 3-2h)	J. Čuchran, R. Róka
Switching Systems I	(6th sem., 3-2h)	I. Baroňák

III.2 Graduate Study (Ing.)

Digital Signal Processing	(1st sem., 3-2h)	G. Rozinaj
Mobile and Satellite Communications II	(1st sem., 3-2h)	P. Farkaš, M. Turcsány
Mobile and Satellite Communications III	(4th sem., 3-2h)	P. Farkaš M. Turcsány
Image Compression	(1st sem., 3-2h)	J. Polec
Switching Systems II	(1st sem., 3-2h)	I. Baroňák
Security of Communication Networks and Services	(1st sem., 3-2h)	M. Orgoň
Communications Theory (for FIIT SUT)	(2nd sem., 2-1h)	P. Farkaš
Architecture of Mobile and Satellite Systems (for FIIT SUT)	(2nd sem., 2-1h)	P. Farkaš
Integration and Convergence of Digital Networks and Services	(2nd sem., 3-2h)	E. Chromý
Probabilistic Models in Telecommunications	(2nd sem., 3-2h)	J. Polec
Broadband Switching Systems	(3rd sem., 3-2h)	M. Medvecký
Digital Image Processing	(3rd sem., 3-2h)	J. Pavlovičová
Digital Speech Processing	(3rd sem., 3-2h)	G. Rozinaj
Intelligent Networks and Services	(3rd sem., 3-2h)	P. Podhradský
Optical Communication Systems and Networks	(3rd sem., 3-2h)	J. Čuchran, R. Róka
Private Telecommunication Networks and Services	(3rd sem., 2-3h)	I. Baroňák
Telecommunication Legislative	(3rd sem., 2-3h)	I. Baroňák
Telecommunication Systems Management	(3rd sem., 3-2h)	M. Medvecký
Wavelets and Filter Banks	(3rd sem., 3-2h)	R. Vargic

IV. RESEARCH 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, 2009-2011, (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, 2010-2013, (I. Baroňák)
- Modelling of Traffic Parameters in NGN Telecommunication Systems and Networks, VEGA - 1/0565/09, 2009-2011 (I. Baroňák)
- Advancement of Coding Technologies, VEGA 1/0376/09, 2009-2012 (P. Farkaš)
- Prosody and Modification of Speech, APVV LPP-078-06, 2007-2010 (G. Rozinaj)
- Algorithms and Methods of Multimedia Signal Processing for Human Machine Interface, VEGA 1/0718/09, 2009-2011 (G. Rozinaj)
- Audio-Speech Interface for Mobile Devices, DAAD, 2010- 2011 (G. Rozinaj)
- Multimedia Services and Applications in the Environment of New Generation Converged Network Infrastructure, VEGA 1/0720/09, 2009-2011 (P. Podhradský)

- Intelligent Error Correction in Image Information Transmission Through Wireless Channels, VEGA 1/0883/08, 2008-2010 (J. Polec)
- Analysis and Design of Applications for Extended Access Networks in the NGN Infrastructure Utilized Fixed Metallic Transmission Media for Supporting of Multimedia Services and Mutual Interconnections of Various Technologies and Networks, VEGA 1/0396/08, 2008-2010 (R. Róka)
- Utilization of GPU Computing for Speedup of Communication Systems Simulation, Program of Support for Young Researchers, 2010 (T. Pálenik)

V. COOPERATION

V.1 Cooperation in Slovakia

- Agrogenofond in Nitra
- 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, Posts and Telecommunications 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 Telecom
- Society of Lifelong Learning in Bratislava
- Technical University in Košice
- Telecommunication Office of Slovak Republic
- Telecommunication Users Group Slovakia
- Tesla, Liptovský Hrádok
- T-Mobile Slovakia
- 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, CzR
- Croatian Academy of Engineering, Zagreb, HR
- ČVUT in Prague, CzR
- 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, CzR
- 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, CzR
- 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, CzR
- 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, CzR
- Universty of Hradec Kralove, CzR
- UPC Barcelona, Spain
- VŠB TU in Ostrava, CzR
- VUT in Brno, CzR

V.3 Membership in International Organizations and Societies

- IEEE (P. Farkaš, T. Páleník, M. Pořásko, M. Rakús, R. Róka)
- Correspondent Member of the Croatian Academy of Engineering (P. Podhradský)
- IET (G. Rozinaj)
- Executive Committee Member - CTF in Slovak Republic (I. Baroňák)

- CTF in Slovak Republic (I. Baroňák, M. Medvecký, R. Róka)
- ETSI (I. Baroňák)
- URSI – Official Member in Scientific Commission C - Signals and Systems (P. Farkaš)
- IEEE CAS/COM/SP joint Czechoslovakia Chapter- Executive Committee member (P. Farkaš)
- European Polytechnical University, Pernik, Bulgaria, Scientific Board member (P. Farkaš)

VI. THESESES

VI.1 Masters Theses

Masters theses supervised at the Department of Tele-communications. The names of supervisors are in brackets.

- [1] Arbeit, V.: Software VoIP PBX and its Collaboration with Other Telecommunication Networks (M. Halás)
- [2] Babic, D.: Security of Networks and Services - Proposal for a Secure Network (M. Orgoň)
- [3] Balko, M.: Dynamic Bandwidth Allocation WDM (R. Róka)
- [4] Bartová, A.: Draft Convergent Communication Solutions (voice + data) for a Small Office with Offices (M. Kupkovič)
- [5] Belačič, M.: Encoding and Decoding 2-Dimensional Constrained Binary Codes (P. Farkaš)
- [6] Bundil, T.: 'Consensus Propagation' Algorithm in WSN (P. Farkaš)
- [7] Butko, J.: Approximation and Interpolation of Objects Shape (J. Polec)
- [8] Cingel, P.: Draft Convergent Communication Solutions (data + voice) for a Large Corporation with Offices (M. Kupkovič)
- [9] Divičan, M.: Speaker Verification Based on Voice Characteristics Using SVM (J. Vojtko)
- [10] Dovičič, J.: Technical Solution Design for IPTV Service (E. Chromý)
- [11] Duda, P.: The Optimalization Routing Connections in the Multipoint Telecommunication Network (J. Filanová)
- [12] Ferenczyová, I.: Implementation of Contact Center in School Sector (I. Baroňák)
- [13] Figura, M.: Robustness Parameterization of Speech Signal in ASR Systems (J. Kačur)
- [14] Filipko, T.: Application Server Pactolus - Analysis and Modification Back-to-Back User Agent (B2BUA) (J. Matejka)
- [15] Fister, M.: Multimedia Animation Talking Head (G. Rozinaj)
- [16] Gajancová, M.: Implementation of VoIP Technologies in an Environment of Private Networks (M. Talanda)
- [17] Gonšor, J.: Methodology of Correction of Incorrect Speech Synthesis (G. Rozinaj)
- [18] Grmanová, J.: Use of Technology Carrier Ethernet Transport in NGN Transport Networks (M. Medvecký)
- [19] Halčín, F.: Wireless Sensor Networks (P. Farkaš)
- [20] Hradská, J.: Evaluation of the Ways of Providing QoS in the Metropolitan and Transport Networks Based on Ethernet Technology (M. Medvecký)
- [21] Hricko, L.: Detection of the Characteristic Facial Features (G. Rozinaj)
- [22] Hvišč, P.: Modeling of Speech Signals Using STN Model and their Compression (M. Turi Nagy)
- [23] Chmara, M.: Presence Service in the IPTV Environment (P. Podhradský)
- [24] Chochelinski, R.: Proposal of NGN Network (I. Baroňák)
- [25] Jakubov, P.: New Technologies for Testing Telecommunications Services (E. Molnár)
- [26] Janata, J.: Providing of QoS for Multimedia Streams in MPLS Networks (M. Halás)
- [27] Jancura, F.: Face Points Detection on Mobile Phone (R. Rybárová)
- [28] Janecký, T.: WiFi IEEE 802.11n (M. Halás)
- [29] Jánoš, P.: Building NGN by Concepts of ALCATEL-LUCENT (I. Baroňák)
- [30] Jonis, M.: Routing of Unicast and Multicast Traffic in MPLS Networks (M. Medvecký)
- [31] Kahan, P.: Analysis and Comparison of the Use of Multimedia Services in Slovakia (J. Čuchran)

- [32] Kántor, T.: Attenuation of Optical Fibers (L. Peťko)
- [33] Kondelová, A.: Analysis of Prosody Features in Slovak (G. Rozinaj)
- [34] Kováč, A.: Assurance of QoS in VoIP Networks (M. Halás)
- [35] Kováč, L.: Parametrization of Speech Signals in Speech Recognition Process (J. Kačur)
- [36] Kovačovic, M.: Implementation of VoIP Technology in Private Networks (B. Kyrbashov)
- [37] Krajč, O.: Project of Metropolitan Optical Network (B. Graňák)
- [38] Kramarič, T.: Migration to NGN (I. Baroňák)
- [39] Kubeková, K.: Solution of Connection of Village into Access Network of Telecommunication Provider (E. Chromý)
- [40] Kužma, B.: Masking Errors in Classified Textures (J. Polec)
- [41] Labuda, I.: Securing of Database Systems (G. Csomós)
- [42] Lukáč, I.: Measurement of Traffic in IP Telephony (M. Halás)
- [43] Lukáč, M.: VoIP and Co-operation with Public Switch Telephone Network (M. Halás)
- [44] Lupták, A.: Web Portal for the Department of the Slovak Language of the Faculty of Philosophy of the Comenius University in Bratislava (M. Orgoň)
- [45] Melas, T.: Data Networks in Power Engineering (R. Róka)
- [46] Michalka, T.: Quality of Service in Wideband Networks (M. Kavacký)
- [47] Moravčík, F.: Model Realizations of Digital Subscriber Line on a Symmetrical Telecommunication Lines (R. Róka)
- [48] Mordelová, A.: Testing the Intelligibility of the Slovak Sign Language at Videoconferences (J. Filanová)
- [49] Muráň, J.: Teaching Software for Analysis Convolution Codes (M. Rakús)
- [50] Olos, M.: Web Applications for IPTV (P. Podhradský)
- [51] Pápay, M.: Using MPLS-TP Technology in NGN Transport Networks (M. Medvecký)
- [52] Parcová, M.: VoIP Technology and its Application (M. Talanda)
- [53] Petro, R.: Link Budget Calculator for Geostationary Satellites (L. Znášik)
- [54] Pichová, P.: Automatic Segmentation of Speech Signals (J. Kačur)
- [55] Pintér, A.: Image Enhancement Using Morphological Operations (J. Pavlovičová)
- [56] Pomoty, M.: Ensuring of QoS VoIP Communication in WiFi Networks (M. Halás)
- [57] Pösinger, M.: Methodology of Implementation of Private NGN Networks for SME (M. Kavacký)
- [58] Radošovský, M.: Wireless Sensor Networks - Interference in ISM Band (T. Páleník)
- [59] Repová, M.: Construction of Linear Block Codes (P. Farkaš)
- [60] Ruman, J.: Binary Morphological Operations in Image Processing (J. Pavlovičová)
- [61] Sabo, R.: XML Applications for Alcatel IP Touch (P. Šelc)
- [62] Sabol, T.: Texture Classification Using Hartley Transform (J. Polec)
- [63] Simonides, J.: Data Dependent Triangulation (J. Polec)
- [64] Solčanský, M.: Ensuring QoS in IMS Networks (B. Kyrbashov)
- [65] Synak, D.: Speech Synthesis via Internet (A. Páleník)
- [66] Szőke, D.: Traffic Routing of Multipoint Connections in Telecommunication Network (J. Filanová)
- [67] Šághy, T.: Diphone Synthesizer of Slovak Language in PHP (G. Rozinaj)
- [68] Šajti, I.: Traffic Protection Using Optical Media for Information Transmission (R. Róka)
- [69] Šimlaštíková, D.: Analysis of ARQ Methods (K. Kotuliaková)
- [70] Škorvánek, J.: Error Concealment for H.264 (J. Polec)
- [71] Šmahovský, R.: Macrobends for Different Types of Single-mode Optical Fibres (L. Peťko)
- [72] Štötét, M.: Data Networks in Power Engineering (R. Róka)
- [73] Špilková, A.: The Creation of the Speech Database (woman voice) for Diphone Speech Synthesis (G. Rozinaj)
- [74] Štulajter, M.: Texture Classification via Slant Transform (J. Polec)
- [75] Šulgan, M.: Usage of Multimedial Digital Advertisement Network (J. Filanová)
- [76] Šuráň, J.: Usage of Erlang's Equations in The IP Networks (E. Chromý)
- [77] Tóth, J.: Phonetic Transcription of Abbreviation for Speech Synthesis (G. Rozinaj)
- [78] Tóth, P.: Practical Measurement of Optical Fibres (R. Róka)
- [79] Tuba, Z.: QoS Mechanisms in MPLS Networks (M. Medvecký)

- [80] Urminský, F.: Harmonic Model Analysis of the Speech Signals (R. Rybárová)
- [81] Vacho, I.: System Architecture of Slovak Synthesizer (R. Rybárová)
- [82] Valent, M.: Automatic Detection Parts of Speech in the Slovak Sentence (G. Rozinaj)
- [83] Valentin, M.: Wireless Sensor Networks - Application of Directive Antenna (T. Páleník)
- [84] Vaško, J.: Evaluation of Concatenative Distortion at Speech Synthesis (J. Čepko)
- [85] Vavrin, M.: Segmentation of Texture Images (J. Pavlovičová)
- [86] Vido, P.: Security of Mobile Communications (M. Orgoň)
- [87] Violová, M.: Selected Services of NGN (I. Baroňák)
- [88] Vnučák, P.: Simulations on Error Rate of DVB-T System in Environment of Fading Channels (M. Rakús)
- [89] Voleník, M.: Security and Protection of Computer Networks (M. Orgoň)
- [90] Weiss, P.: Coding of Facial Images by Triangulation (J. Polec)
- [91] Zaťko, M.: Design Technical Solution Service Video on Demand (E. Chromý)
- [92] Zolnay, A.: Utilization IP Videoconferencing in the Educational Process (M. Kavacký)

VI.2 PhD Theses

- [1] Karlubíková, T.: Special Algorithms of Interpolation and Extrapolation of Pictures (J. Polec)
- [2] Mačica, J.: Twodimensional Translation Codes (P. Farkaš)
- [3] Tóthová, Ž.: Error Concealment in Texture Images Using ALBP Classifier (J. Polec)
- [4] Mikóczy, E.: Advanced Multimedia Architecture for Next Generation of Internet Protocol Television Systems (P. Podhradský)
- [5] Páleník, T.: Communication System Design Based on SDR Platform: Exploiting the Redundancy of an OFDM System (P. Farkaš)

VII. OTHER ACTIVITIES

VII.1 Conferences and Seminars Organized by the Department

- ELOSYS 2010, October 2010 Trenčín, Slovak Republic, (cooperation with FEI STU Bratislava)
- 4th International Workshop on Speech and Signal Processing Redžúr 2010, May 2010 Bratislava, Slovak Republic, (cooperation with FEI STU Bratislava)
- NoTeS 2010, June 2010, Banská Bystrica, Slovak Republic, (cooperation with FEI STU Bratislava)
- Slovak VoIP, September 2010, Banská Bystrica, Slovak Republic, (cooperation with FEI STU Bratislava)

VII.2 Expertise, tenders, international and national commission members

- ETS norms, member of National Committee TNK No. 41 for Telecommunications, Transformation of ETS Norms in National Environment (I. Baroňák)
- Award of J. Murgaš 2010: member of Committee MDPT SR a SES, Selection Candidate of Award of J. Murgaš for Year 2010 (I. Baroňák)
- Member of Grant Committee of MDPT SR for Post, Telecommunication and Information Technologies. Bratislava, 2010 (I. Baroňák)
- Conference: NoTeS 2010, June 2010, Banská Bystrica, Slovak Republic, member of Program Committee (I. Baroňák)
- Conference: Slovak VoIP, September 2010, Banská Bystrica, Slovak Republic, member of Program Committee (I. Baroňák)
- Conference with International Participation: ELOSYS 2010, October 2010, Trenčín, Slovak Republic, member of Program Committee (I. Baroňák)
- International Conference - RTT 2010 – Research Telecommunication Technology 2010, Ostrava, Czech Republic, September 2010, member of Program Committee (I. Baroňák)
- 3rd International Conference - NIMT 2010 – New Information and Multimedia Technologies,

- Brno University of Technology, September 2010, Brno, member of Scientific Committee (I. Baroňák)
- ICETA 2010 – International Conference on Emerging Telecommunications Technologies and Applications, Košice, Slovak Republic, November 2010, member of Program Committee (I. Baroňák)
 - Journal: Elektrevue, member of Editorial Board (I. Baroňák)
 - Journal: AEEE (Advances in Electrical and Electronic Engineering), member of Editorial Board (I. Baroňák)
 - VEGA, projects reviewer (I. Baroňák)
 - APVV (Slovak Research and Development Agency), projects 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: AEEE (Advances in Electrical and Electronic Engineering), reviewer (I. Baroňák)
 - Journal: Radioengineering, reviewer (I. Baroňák)
 - Journal: Integrated Computer-Aided Engineering, reviewer (I. Baroňák)
 - Workshop Redžúr 2010, reviewer (J. Čepko)
 - Workshop Redžúr 2010, member of Organizing Committee (Z. Dedíková)
 - Accreditations Committee of Slovak Government - working group for information sciences, information and communication technologies with responsibility also for the area of automation and telecommunications (P. Farkaš)
 - IEEE Communications Letters and IEEE Transactions on Signal Processing, reviewer (P. Farkaš)
 - 9th annual Wireless Telecommunication Symposium, Embassy Suites USF Busch Gardens, Tampa, USA WTS 2010, Vienna, Austria, 21 - 23 April, 2010, TPC member (P. Farkaš)
 - The 3rd IET International Conference on Wireless, Mobile & Multimedia Networks, ICWMMN 2010, 26- 29 September. Beijing Jiaotong University, 2010 Beijing, China, TPC member (P. Farkaš)
 - Int. Symposium on Broadband Communications, ISBC 2010, Melaka, Malaysia, 11 -14 July 2010, TPC member (P. Farkaš)
 - Software Defined Radio, SDR 2010, Washington D. C., USA, Nov.30-Dec. 4-th 2010, TPC member, track chair and reviewer (P. Farkaš)
 - Wireless Personal Mobile Communications WPMC 2010, Precife, Brazil, S23: ICT Innovations for a Green Society III (Special Session) Chaire (P. Farkaš)
 - 4th International Conference on Signal Processing and Communication Systems, ICSPCS 2010, Golden Coast, Australia, 13-15 December, 2010, TPC member, track chair and reviewer (P. Farkaš)
 - 19th International Electrotechnical and Computer Science Conference. Portorož, Slovenia, September 20-22, TPC member (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)
 - Conference KTTO 2010, Ostrava, Czech Republic, member of Scientific and Programme Committee (E. Chromý)
 - Conference NoTes 2010, Banská Bystrica, Slovak Republic, member of Programme Committee (E. Chromý)
 - Conference TSP 2010, Baden, Austria, reviewer (E. Chromý)
 - Conference RTT 2010, Velké Losiny, Czech Republic, reviewer (E. Chromý)
 - Journal - Advances in Electrical and Electronic Engineering, member of International Scientific Editorial Board (E. Chromý)
 - Journal - Advanced in Electrical and Electronic Engineering, reviewer (E. Chromý)
 - JEEEC, reviewer (J. Kačur)

- EURASIP Journal on Advances in Signal Processing, reviewer (J. Kačur)
- Workshop Redžúr 2010, member of Program and Reviewers Committees (J. Kačur)
- Conference KTTO 2010, Ostrava, reviewer (M. Kavacký)
- Journal Advances in Electrical and Electronic Engineering, member of Scientific Editorial Board, reviewer (M. Kavacký)
- Workshop Redžúr 2010, member of Organizing Committee (A. Kondelová)
- Conference RTT2010, member of Program and Reviewers Committees (K. Kotuliaková)
- Journal of Electrical Engineering, reviewer (K. Kotuliaková)
- Conference TSP2010, reviewer (K. Kotuliaková)
- Workshop Redžúr 2010, member of Reviewers and Organizing Committees (J. Kőrösi)
- International Conference on Computer Vision and Graphics (ICCVG 2010), chairman of the section 'Low & Middle-level Vision 1' (L. Krulikovská)
- Conference RTT 2010, Velké Losiny, Czech Republic, reviewer (B. Kyrbashov)
- Journal - Advanced in Electrical and Electronic Engineering, reviewer (B. Kyrbashov)
- Conference KTTO 2010, Ostrava, Czech Republic, reviewer (B. Kyrbashov)
- Conference KTTO 2010, Ostrava, Czech Republic, reviewer (M. Orgoň)
- Journal - Advances in Electrical and Electronic Engineering, 2010, Ostrava, Czech Republic, reviewer (M. Orgoň)
- International Journal of Electronics, 2010, Leeds, United Kingdom, reviewer (M. Orgoň)
- Conference TSP, 2010, Vienna, Austria, reviewer (M. Orgoň)
- Conference RTT, 2010, Ostrava, Czech Republic, reviewer (M. Orgoň)
- Conference ELOSYS 2010, member of Program and Reviewers Committees (M. Orgoň)
- Conference ELOSYS 2010, chairman of the section (M. Orgoň)
- Journal of Electrical Engineering, reviewer (J. Pavlovičová)
- Conference ISABEL 2010, Reviewers Committee (J. Pavlovičová)
- ELITECH`10, organizing committee (J. Pavlovičová)
- Workshop Redžúr 2010, reviewer (J. Pavlovičová)
- Journal of Electrical Engineering, member of Editorial Board and reviewer (P. Podhradský)
- International Journal of Signal and Imaging Systems Engineering (IJSISE), member of Editorial Board (P. Podhradský)
- Conference IWSSIP 2010, member of Program and Reviewers Committees (P. Podhradský)
- Conference ELMAR 2010, member of Program and Reviewers Committees (P. Podhradský)
- Radioengineering, member of Editorial Board and reviewer (J. Polec)
- GAČR (Grant Agency of Czech Republic), projects reviewer (J. Polec)
- VEGA, projects reviewer (J. Polec)
- Acta Electrotechnica et Informatica, reviewer (J. Polec)
- Foundation of SPP, projects reviewer (J. Polec)
- Workshop Redžúr 2010, reviewer (J. Polec)
- International Journal of Communication Networks and Information Security, Area Editor (R.Róka)
- International Journal of Communication Networks and Information Security, member of Editorial Board and reviewer (R.Róka)
- International Journal of Research and Reviews in Computer Science, member of Editorial Board and reviewer (R.Róka)
- Radioengineering Journal, reviewer (R.Róka)
- APVV (Slovak Research and Development Agency), projects reviewer (R.Róka)
- KEGA, projects reviewer (R.Róka)
- Conference ELITECH 2010, chairman of the section (R.Róka)
- Conference ELOSYS 2010, chairman of the section (R.Róka)
- Conference RTT 2010, reviewer (R.Róka)
- Conference TSP 2010, chairman of the section and reviewer (R.Róka)
- International Journal of Signal and Imaging Systems Engineering (IJSISE), member of Editorial board (G. Rozinaj)

- Conference IWSSIP 2010, 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 2010, member of Program and Reviewers Committees, invited lecturer, chairman of the session (G. Rozinaj)
- Workshop Redžúr 2010, member of Program and Reviewers Committees (G. Rozinaj)
- Workshop Redžúr 2010, member of Program and Reviewers Committees (M. Turi Nagy)
- Radioengineering, reviewer (R. Vargic)
- Workshop Redžúr 2010, reviewer (R. Vargic)
- Workshop Redžúr 2010, member of Reviewers and Organizing Committees (J. Vojtko)

VIII. PUBLICATIONS

VIII.1 Journals

- [1] BALOGH, T. - MEDVECKÝ, M.: Comparison of Priority Queueing Based Scheduling Algorithms. In: Elektrovēue. - ISSN 1213-1539. - Vol. 15, date: 16.11. (2010), Art. no. 93. (in English)
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VIII.2 Conference Proceedings

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