

STU  
FEI

SLOVENSKÁ TECHNICKÁ  
UNIVERZITA V BRATISLAVE  
FAKULTA ELEKTROTECHNIKY  
A INFORMATIKY

# 2011



**OFFICE FOR EUROPEAN UNION PROGRAMMES**

**ANNUAL REPORT**  
**SLOVAK UNIVERSITY OF TECHNOLOGY IN BRATISLAVA**

# OFFICE FOR EUROPEAN UNION PROGRAMMES

<http://www.kpeu.stuba.sk>



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## General Information

Office for European Union Programmes (OEUP) at Faculty of EE&IT (FEEIT) functions since its establishment in 2000 as an autonomous Office of this Faculty. The main task is to support and develop international collaboration in the area of educational, research, cultural and entrepreneurial activities with an aim to increase the participation of groups and individuals mainly from FEEIT in international projects and to secure an effective development of human resources at FEEIT. Into the scope of the OEUP also belongs a preparation of international projects including a generation of professional and financial conditions for execution of international mobility for STU graduates.

OEUP activities could be summarized as follows

- Organization and carrying out international mobility programmes for STU graduates,
- Search for new forms of international collaboration including new project proposal preparation within EU programmes and further elaboration of contacts with abroad,
- Active collaboration and cooperation within national and international projects with other Slovak Universities,

- Further development of contacts with non-governmental organizations mainly in the area of education and research, deepening of contacts with state and private organizations in the area of education, research and collaboration with industry,
- Advisory and consulting service in the area of preparation, submission and management of EU projects, including organization of seminars and training,
- Help in search for domestic and foreign partners for projects within EU programmes,
- Coordination of international research, education and other project preparation,
- Communication with National Agencies and National Contact Points for individual EU programmes,
- Advisory and consulting activity within preparation and carrying out of events with foreign participation (workshops, seminars, conferences, etc),
- Preparation of events initiated by foreign partners.

OEUP itself has coordinated and carried out educational, research, supporting and other projects.

Leonardo da Vinci program mobility projects, granted to OEUP, represent for STU graduates a significant milestone in their professional life. This is happening also thanks to professional preparation of these specialized stays by OEUP.

# I. STAFF

## Professors:

Prof. Dr. Pavol Podhradský

## Associate Professors:

Assoc. Prof. Dr. Marian Veselý

## Research Workers:

Dr. Eugen Mikóczy

Dr. Andrea Staňová

Darina Matušiková, MSc.

## Technical Staff



# II. EQUIPMENT

## II. 1 Teaching and Research Laboratories

## II. 2 Special Measuring Instruments and Computers

# III. TEACHING

## III. 1 Undergraduate Study (Bc.)

## III. 2 Graduate Study (Ing.)

# IV. RESEARCH PROJECTS

## IV. 1 National Scientific Projects

## IV. 2 International Scientific Project

- HBB-Next (Hybrid Broadcast Broadband Next Generation), FP7 No. 287848. Duration: 2011-2014 (solved) (P. Podhradský)
- IMProVET (Innovative Methodology for Promising VET Areas), LdV No. CZ/11/LLP-LdV/TOI/134011. Duration: 2011-2013 (solved) (P. Podhradský)
- EDIGRA-pro (European Dimension of Technology Education for Slovak Graduates – a New Approach

- to Mobilities), LdV No. SK/09/LDV/PLM/02-93220798. Duration: 2010–2011 (completed). (M. Veselý)
- COSTEL (STU Graduates in European Labour Market), LdV No. 11322 1199. Duration: 2011-2012 (being solved). (M. Veselý)

# V. COOPERATION

## V. 1 Cooperation in Slovakia

- Alcatel Lucent Slovakia
- Orange Slovakia
- Siemens PSE Slovakia
- Slovak Agricultural University in Nitra
- Slovak Association of Electrotechnical Companies
- Slovak Telekom
- Society of Lifelong Learning in Bratislava
- Technical University in Košice
- Telecommunication Users Group Slovakia
- University of Trnava
- University of Žilina
- Secondary school of electrical engineering K. Adlera, Bratislava
- Vocational and technical secondary school, Banská Bystrica
- Secondary school of electrical engineering J. Murgaša, Banská Bystrica

## V. 2 International Cooperation

- Croatian Academy of Engineering, Zagreb, HR
- ČVUT in Prague, CZ
- Deutsche Telecom Laboratories in Berlin, DE
- Deutsche Telecom University in Leipzig, DE
- ISEP Paris, FR
- King Abdulaziz University, Jeddah, Kingdom of Saudi Arabia
- Rundfunk Berlin-Brandenburg, Berlin, DE
- Institut für Rundfunktechnik, GMBH, München, DE
- NEC Europe, LTD., London, UK
- TNO - Research Institute, Delft, NL
- Katholische University in Leuven, BE
- Technische Hochschule Mittelhessen, Giessen, DE
- TARA Systems, Muenchen, DE
- San Pablo CEU University, Madrid, ES
- XPERTIA Soluciones Integrales, S.L., ES
- Consultoría de Innovación y Financiación, S.L., ES
- Dublin City University, UK
- National College of Ireland
- Brunel University, UK
- Vrije Universiteit Brussel, BE
- Hochschule Offenburg, DE
- Laboratori Guglielmo Marconi, S.P.A, IT
- Nexsoft, S.P.A, IT
- Università della Calabria, IT
- Polytechnic University of Timisoara, RO
- Brno University of Technology, CR
- Technical University of Lodz, PL

- Norwegian Institute of Information Technology, Norway
- FRAUNHOFER Institute, DE
- White Loop, Ltd., UK
- Metodologie, Investimenti, Applicazioni, S.R.L, IT
- Linköping University, SW
- Jönköping International Business School, SW
- Politechnica Poznań, Poland
- Politecnico di Milano
- TU Maribor, Slovenia
- TU Wien, Austria
- TU Zagreb, Croatia
- UPC Barcelona, Spain
- University of Carlos III (UC3M) Madrid, ES
- Q-Star test, BE
- Photeon Technologies, AT
- Balfor Recruitment, UK
- CEDO, CZ
- Finqal sarl, FR
- Architekturbüro Reinberg ZT GmbH, AT
- JML Consultants Water Feature Design S.L., ES
- feld72 architekten zt gmbh, AT
- Fachhochschule Vorarlberg GmbH, AT
- MENIS ARQUITECTOS, ES
- Stéphane Beel Architects BVBA, BE
- OFIS arhitekti d.o.o., SI
- HONDELATTE LAPORTE ARCHITECTES, FR
- VIZE Atelier, s.r.o, CZ
- Placementmaker Limited, UK
- Organisation des Architectes Alternatifs, FR

## VI. THESES

### VI. 1 Master theses

### VI. 2 PhD. Theses

## VII. OTHER ACTIVITIES

### VII. 1 Conferences and Seminars Organized by the Department

Seminar of COSTEL participants to exchange experience, 16. 6. 2011, FEI STU

## VIII. MEMBERSHIP IN INSTITUTION/ COMMITTEES

### VIII. 1 Membership in National Institution/Committees

- P. Podhradský: Journal of Electrical Engineering, member of Editorial Board

- P. Podhradský: VEGA, projects reviewer
- P. Podhradský: APVV (Slovak Research and Development Agency), projects reviewer



### VIII. 2 Membership in International Institution/Committees

- P. Podhradský: Croatian Academy of Engineering, correspondent member
- P. Podhradský: International Journal of Signal and Systems Engineering, member of Editorial Board
- P. Podhradský: International Conference IWSSIP 2011, member of International Program and Reviewers Committees
- P. Podhradský: International Symposium ELMAR 2011, member of International Program and Reviewers Committees,
- E. Mikóczy: IEEE - Institute of Electrical and Electronics Engineers, IEEE Communications Society
- E. Mikóczy: ACM – Association for Computing Machinery, ACM Special Interest Group SIGCOM & SIGMM
- E. Mikóczy: ISCT - Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering
- E. Mikóczy: ETSI - European Telecommunications Standards Institute – TISPAN (Telecommunications and Internet converged Services and Protocols for Advanced Networking) – Technical Member, Active Rapporteur, ETSI MCD (Media Content Distribution) - Technical Member
- E. Mikóczy: ITU-T - International Telecommunication Union – Telecommunication, Study Group 13 NGN, technical member
- E. Mikóczy: Reuters – Member of expert community
- E. Mikóczy: TRIDENTCOM 2011 - 6th International Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities, Shanghai, China, member of International Program and Reviewers Committees
- E. Mikóczy: 3rd ngnlab.eu International NGN Workshop, Delft, Nederland, member of International Program Committee

# IX. PUBLICATIONS

## IX. 1 Journals

- [1] MIKÓCZY, E., KOTOLIAK, I., van DEVENTER, M. O.: Evolution of the converged NGN service platforms towards Future Networks, in Future Internet Journal, Special Issue "Network vs. Application Based Solutions for NGN", 2011, ISSN 1999-5903 (In English), <http://www.mdpi.com/1999-5903/3/1/67/>

## IX. 2 Conference Proceedings

- [1] PODHRADSKÝ, P.: New Multimedia Applications based on IMS NGN Architecture, 18th International Conference on Systems, Signals and Image Processing, IWSSIP 2011, ISBN:978-9956-9966-1-0, 16-18 June 2011, Sarajevo, Bosnia and Herzegovina, Invited Paper,
- [2] MIKÓCZY, E., SCHUMANN, S., PODHRADSKÝ, P., KOSKI, Y., HEINIKANGAS, M.: Hybrid IPTV Service with IMS – Integration of IMS based IPTV with Broadcast and Unicast Mobile TV Service Using DVB-H", 5th International Conference on Next Generation Mobile Applications, Services and Technologies, 14.-16. September 2011, Cardiff, Wales, UK, ISBN: 978-0-7695-4496, S. 76-81 (In English),
- [3] LONDÁK, J., PODHRADSKÝ, P.: Selected security threats in VoIP IMS architecture. In: Proceedings Redžúr 2011 : 5th International Workshop on Multimedia and Signal Processing. May 12, 2011, Bratislava, SR, Nakladateľstvo STU, 2011. - ISBN 978-80-227-3506-3. - S. 81-84
- [4] PODHRADSKÝ, P., KADLIC, R., LONDÁK, J., LÁBAJ, O., LEVICKÝ, D.: Enhanced ICT in Virtual Training and m-learnin. In: Proceedings ELMAR-2011 : 53rd International Symposium ELMAR-2011, 14-16 September 2011, Zadar, Croatia, 2011. - ISBN 978-953-7044-12-1
- [5] PODHRADSKÝ, P., ROZINAJ, G., MIKÓCZY, E.: HBB-Next FP7 project, Digital Agenda for Europe Mini-Conference, October 2011, Bratislava. Invited presentation
- [6] PODHRADSKÝ, P., TRÚCHLY, P., KADLIC, R., LONDÁK, J., LÁBAJ, O.: Enhanced ICT in Virtual Training and m-learnin. In: LdV MLARG Final Conference, October 2011, Istanbul. Invited presentation
- [7] MIKÓCZY, E.: IPTV/IMS Blended Services and platforms convergence, IMS World Forum 2011, 12-14. April, 2011, Barcelona, Spain
- [8] MIKÓCZY, E.: NGN based IPTV tutorial, 3rd ngnlab.eu International NGN Workshop, November 2011, Delft, Nederland

## IX. 3 Parts of books

- [1] PODHRADSKÝ, P., MIKÓCZY, E., LÁBAJ, O., LONDÁK, J., TRÚCHLY, P., at al: NGN Architectures and NGN Protocols, LdV IntEleCT, Educational publication, 210 pages, Published by ČVUT Praha, ISBN: ISBN:978-80-01-04949-5, September 2011, CD version

## IX. 4 Others

- [1] MIKÓCZY, E.: Standardization (active participation on ETSI TISPAN NGN Release 2/3 specifications): Technical contributions related to IPTV, co-author of more than 160 agreed drafts of contributions accepted and involved in 15 ETSI specifications of Release 2/3: WI0005, WI2048, WI2049, WI3127, WI3137, WI7029, WI1059, WI8019, WI2070, WI2074, WI2076, WI 2079, WI3208, WI3204, WI7033.
- [2] MIKÓCZY, E.: Rapportuer for Technical Specification ETSI TISPAN Release 3 work item WI3208: TS 183 064 "NGN integrated IPTV stage 3" and WI6061: TS 186 020 "IMS-based IPTV interoperability test specification" (leading ETSI STF for finalization of WI6061 test cases).





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