



NOVEMBER 6 - 8, 2017/ MUNICH, GERMANY

THE 9TH INTERNATIONAL CONGRESS ON ULTRA MODERN TELECOMMUNICATIONS AND CONTROL SYSTEMS

*ICUMT 2017: Facilitating the Internet of Skills*

WELCOME!

Welcome to the website of the ICUMT 2017 – The 9th International Congress on Ultra Modern Telecommunications and Control Systems. It is our great pleasure to invite you to the ICUMT 2017, which will be hosted this time in Munich, Germany on 6 – 8 November, 2017. The event is organized jointly by Brno University of Technology, Tampere University of Technology and several industrial partners. The congress is held within the framework of the RUDN University Competitiveness Enhancement Program „5–100“.

ICUMT is an IEEE (R8 + Germany Section) technically co-sponsored (approved) premier international congress providing an open forum for researchers, engineers, network planners and service providers targeted on newly emerging technologies, systems, standards, services, and applications, bringing together leading international players in telecommunications, control systems, automation and robotics. The event is positioned as a major international annual congress for the presentation of original results achieved from fundamental as well as applied research and engineering works.

Following the success of the previous events normally attracting around 120 participants from both academia and industry, ICUMT 2017 is planned as a three-day event offering a number of plenary sessions, technical sessions, and specialized workshops.

We look forward to seeing you in beautiful city of Munich – rapidly expanding centre of advanced technologies, art, culture, finance, innovations, education, business, and tourism in Germany and Europe!

Recent news

January 17, 2018: We are happy to let you know that the accepted ICUMT 2017 papers are now available in the IEEE Xplore.

December 22, 2017: We are happy to let you know that IEEE has accepted the ICUMT 2017 proceedings for publication in IEEE Xplore. The papers should be available online in few weeks.

November 16, 2017: The ICUMT 2017 photos are now available at the Official Facebook page.

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Important dates

Deadline for Workshop Proposal: **May 26, 2017**

Deadline for Regular Paper Submission (HARD): **July 24, 2017**

Notification of Paper Acceptance: **September 11, 2017**

Final Paper Submission: **September 25, 2017**

Authors' Early Registration and Payment: **September 29, 2017**

Authors' Late Registration and Payment: **October 13, 2017**



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Welcome



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Ometov, Aleksandr	RAB02.3		<i>Multi-factor Authentication: A Survey and Challenges in V2X Applications</i>
	RAB01.5		<i>Comparative Evaluation of Radio Propagation Properties at 15 GHz and 60 GHz Frequencies</i>
Orlov, Yuri	APTP02.4		<i>Software Complex for Modeling Non-Stationary Event Flows</i>
Ostrikova, Darya	APTP01.3		<i>Analytical Model for Multicast Subgrouping in 5G-Mobile eMBMS Environment</i>
Ovsyannikova, Anna	TC02.1		<i>On the joint use of nonlinear amplifier and optimal signals with increased duration</i>
P  A B C D E F G H I K L M N O P R S T U V W Y Z			
Pavia, João Pedro	TC04.1		<i>The Evolution and Future Perspective of Security in Mobile Communications Networks</i>
Peethala, Daniel	TC02.5		<i>Probability of Coverage Based Analysis of Distributed Antenna System and its Implementation on LTE Based Real-Time-Testbed</i>
Peng, Bile	THZCOM02.2		<i>Channel Sounding Techniques for Applications in THz Communications - A first correlation based channel sounder for ultra-wideband dynamic channel measurements at 300 GHz</i>
Pessoa, Luis	THZCOM02.3		<i>Building an End User focused THz based Ultra High Bandwidth Wireless Access Network: The TERAPOD Approach</i>
Petkovic, Bojana	TC03.6		<i>Information content-based determination of optimal sensor number</i>

Petrov, Dmitry	THZCOM01.1		<i>MMSE Based K-best Algorithm for Efficient MIMO Detection</i>
Piksarv, Peeter	TC03.4		<i>Spatio-Temporal Mobility Analysis for Community Detection in the Mobile Networks Using CDR Data</i>
Pinto, Paulo	TC03.2		<i>Outliers detection in network services with self-learned profiles</i>
Pleshakov, Ruslan	APTP02.4		<i>Software Complex for Modeling Non-Stationary Event Flows</i>
Pokorny, Jiri	TC07.4		<i>A Non-invasive Electricity Measurement within the SmartGrid Landscape: Arduino-based Visualization Platform for IoT</i>
Porcel, Marco A.	THZCOM02.3		<i>Building an End User focused THz based Ultra High Bandwidth Wireless Access Network: The TERAPOD Approach</i>
Pshenichnikov, Anatoly	APTP01.1		<i>Modeling of Vertical Handover from 3GPP LTE to Cognitive Wireless Regional Area Network</i>
Punceva, Magdalena	TC04.3		<i>Public security using absorbing Markov chains</i>
Pyrkin, Anton	CS03.5		<i>Simple Speed Observer for PMSM</i>
R  A B C D E F G H I K L M N O P R S T U V W Y Z			
Ramos, João	CS02.2		<i>A wearable and non-wearable approach for gesture recognition - Initial results</i>
Raso, Ondrej	TC04.4		<i>Lightweight Structures of Big Numbers for Cryptographic Primitives in Limited Devices</i>
Ravani, Bahram	CS01.3		<i>An Approach for Evaluating Collaborative Software Environments Based on Integration of House of Quality with Multi-Attribute Utility Theory</i>
Renaud, Cyril	THZCOM02.3		<i>Building an End User focused THz based Ultra High Bandwidth Wireless Access Network: The TERAPOD Approach</i>
Rey, Sebastian	THZCOM02.2		<i>Channel Sounding Techniques for Applications in THz Communications - A first correlation based channel sounder for ultra-wideband dynamic channel measurements at 300 GHz</i>
Ribeiro, Bruno	TC07.3		<i>Hybrid Model for Secure Communications and Identity Management in Vehicular Ad Hoc Networks</i>
Rinaldi, Federica	APTP01.3		<i>Analytical Model for Multicast Subgrouping in 5G-Mobile eMBMS Environment</i>
Rog, Andrey	THZCOM01.1		<i>MMSE Based K-best Algorithm for Efficient MIMO Detection</i>
Róka, Rastislav	TC02.3		<i>Analysis of Possibilities for Numerical Simulations of Continuous Wave DFB Laser</i>
Rossberg, Michael	TC06.3		<i>Reducing Call Blocking Rates For Anonymous Voice Over IP Communications</i>
Rumyantsev, Alexander	APTP02.3		<i>A Gaussian Approximation of Runtime Estimation in a Desktop Grid Project</i>
Rupprecht, Franca	CS01.3		<i>An Approach for Evaluating Collaborative Software Environments Based on Integration of House of Quality with Multi-Attribute Utility Theory</i>
S  A B C D E F G H I K L M N O P R S T U V W Y Z			
Saaifan, Khodr	TC02.4		<i>Lattice Coding for MIMO Systems in Impulse Noise</i>
Sadreddini, Zhaleh	TC01.4		<i>Dynamic User-centric Spectrum Handoff in 5G Systems: Optimized Criteria Based Resource Management Framework</i>
Salik, Pavol	TC02.3		<i>Analysis of Possibilities for Numerical Simulations of Continuous Wave DFB Laser</i>
Samouylov, Konstantin	APTP01.3		<i>Analytical Model for Multicast Subgrouping in 5G-Mobile eMBMS Environment</i>
	APTP02.2		<i>LTE Network Model with Signals and Random Resource Requirements</i>
Sanguankotchakorn, Teerapat	RAB01.1		<i>Performance Improvement of a Random Access Channel Protocol over M2M Communications</i>
Santos, Alexandre	TC07.3		<i>Hybrid Model for Secure Communications and Identity Management in Vehicular Ad Hoc Networks</i>
Santos, António	CS02.2		<i>A wearable and non-wearable approach for gesture recognition - Initial results</i>
Schaefer, Guenter	TC06.3		<i>Reducing Call Blocking Rates For Anonymous Voice Over IP Communications</i>
Schatz, David	TC06.3		<i>Reducing Call Blocking Rates For Anonymous Voice Over IP</i>

		<i>Communications</i>
Schmidt, Carlo	CS01.3	<i>An Approach for Evaluating Collaborative Software Environments Based on Integration of House of Quality with Multi-Attribute Utility Theory</i>
Scholz, Sebastian	CS01.1	<i>Performance Modeling of Networked Control Systems</i>
Sebastião, Pedro	TC04.1	<i>The Evolution and Future Perspective of Security in Mobile Communications Networks</i>
Šeda, Miloš	TC06.5	<i>Mobile Platform for Online QoE Assessment in Video Streaming Services</i>
Šeda, Pavel	TC06.5	<i>Mobile Platform for Online QoE Assessment in Video Streaming Services</i>
Sedlacek, Petr	TC07.6	<i>Practical Overview of Commercial Connected Cars Systems in Europe</i>
Seitz, Jochen	TC07.1	<i>Towards 802.11p-based Vehicle-to-Pedestrian Communication for Crash Prevention Systems</i>
Semkin, Vasilii	RAB01.5	<i>Comparative Evaluation of Radio Propagation Properties at 15 GHz and 60 GHz Frequencies</i>
Sergeeva, Ekaterina	CS01.2	<i>Digital Control System of the Recuperation Device</i>
Sevastianov, Anton	APTP01.5	<i>Application of the Noncommutative Theory of Statistical Decisions to the Modeling of Quantum Communication Channels</i>
Sevastyanov, Leonid	APTP01.2	<i>Large-Scale Queuing Systems and Services Pricing</i>
	APTP01.5	<i>Application of the Noncommutative Theory of Statistical Decisions to the Modeling of Quantum Communication Channels</i>
Sewalkar, Parag	TC07.1	<i>Towards 802.11p-based Vehicle-to-Pedestrian Communication for Crash Prevention Systems</i>
Shah, A. F. M. Shahen	TC05.3	<i>Performance Modeling and Analysis of the IEEE 802.11 DCF for VANETS</i>
Shaik, Zubair	TC01.2	<i>Implementation Aspects of Hierarchical Radio Resource Management Scheme for Overlay D2D</i>
Shibata, Shusaku	RAB02.4	<i>A CoMP Clustering Method in Consideration of Spectrum Sharing for Fairness Improvement</i>
Shokair, Ahmad	RAB01.2	<i>Near Optimal Linear-Service Oriented Resource Allocation Strategy for LTE Networks</i>
Shorgin, Sergey	APTP01.4	<i>Analyzing Impact of Path Loss Models on Probability Characteristics of Wireless Network with Licensed Shared Access Framework</i>
Sigalingging, Xanno	TC03.5	<i>RIVA: A Real-time Information Visualization and Analysis Platform for Social Media Sentiment Trend</i>
Silhavy, Pavel	TC05.2	<i>Accuracy Comparison of Propagation Models for mmWave Communication in NS-3</i>
	TC06.4	<i>Performance Evaluation of Multi-carrier Power Line Communication Systems in Real Condition for Smart Grid Neighborhood Area Networks</i>
	TC04.5	<i>Methodology for Correlations Discovery in Security Logs</i>
Silva, Adão	RAB01.3	<i>Performance Evaluation of a Frequency Selective Millimeter Wave System with Limited Feedback</i>
Silva, Joana	CS02.2	<i>A wearable and non-wearable approach for gesture recognition - Initial results</i>
Silva, Vinicius	CS02.2	<i>A wearable and non-wearable approach for gesture recognition - Initial results</i>
Slacik, Jan	TC04.4	<i>Lightweight Structures of Big Numbers for Cryptographic Primitives in Limited Devices</i>
	TC06.4	<i>Performance Evaluation of Multi-carrier Power Line Communication Systems in Real Condition for Smart Grid Neighborhood Area Networks</i>
Slita, Olga	CS03.5	<i>Simple Speed Observer for PMSM</i>
Smekal, David	TC04.5	<i>Methodology for Correlations Discovery in Security Logs</i>
Sneps-Sneppe, Manfred	TC06.1	<i>On telecommunications evolution: Pentagon case and some challenges</i>
Soares, Filomena	CS02.2	<i>A wearable and non-wearable approach for gesture recognition - Initial results</i>
Solomitchii, Dmitrii	RAB01.5	<i>Comparative Evaluation of Radio Propagation Properties at 15 GHz and 60 GHz Frequencies</i>

Soni, Vaibhav	CS01.3		<i>An Approach for Evaluating Collaborative Software Environments Based on Integration of House of Quality with Multi-Attribute Utility Theory</i>
Sopin, Eduard	APTP02.2		<i>LTE Network Model with Signals and Random Resource Requirements</i>
Sousa, Filipe	CS02.2		<i>A wearable and non-wearable approach for gesture recognition - Initial results</i>
Sousa, Susana	TC07.3		<i>Hybrid Model for Secure Communications and Identity Management in Vehicular Ad Hoc Networks</i>
Souto, Nuno	RAB02.1		<i>Efficient Channel Estimation Using TCH Codes</i>
Stanciu, Madalina	TC07.5		<i>Application layer protocol for IoT using Wireless Sensor Networks communication protocols</i>
Stangaciu, Valentin	TC07.5		<i>Application layer protocol for IoT using Wireless Sensor Networks communication protocols</i>
Stusek, Martin	TC05.2		<i>Accuracy Comparison of Propagation Models for mmWave Communication in NS-3</i>
	TC07.4		<i>A Non-invasive Electricity Measurement within the SmartGrid Landscape: Arduino-based Visualization Platform for IoT</i>
Su, Kwan-Wu	TC03.5		<i>RIVA: A Real-time Information Visualization and Analysis Platform for Social Media Sentiment Trend</i>
Sung, Chi Wan	TC01.1		<i>Coded Caching in Partially Cooperative D2D Communication Networks</i>
T  A B C D E F G H I K L M N O P R S T U V W Y Z			
Tebbi, Ali	TC01.1		<i>Coded Caching in Partially Cooperative D2D Communication Networks</i>
Teodoro, Sara	RAB01.3		<i>Performance Evaluation of a Frequency Selective Millimeter Wave System with Limited Feedback</i>
Timonina, Elena	APTP02.1		<i>Analysis of Information Security of Distributed Information Systems</i>
Titova, Ekaterina	CS03.5		<i>Simple Speed Observer for PMSM</i>
Töpfer, Hannes	TC03.6		<i>Information content-based determination of optimal sensor number</i>
Turlikov, Andrey	RAB02.2		<i>Comparison of eMBMS transmission methods with unicast in low SNR conditions</i>
	RAB02.5		<i>Upper Bound and Approximation of Random Access Throughput over Chase Combining HARQ</i>
U  A B C D E F G H I K L M N O P R S T U V W Y Z			
Uhlir, Dalibor	TC07.6		<i>Practical Overview of Commercial Connected Cars Systems in Europe</i>
V  A B C D E F G H I K L M N O P R S T U V W Y Z			
van der Veer, Gerrit	CS01.3		<i>An Approach for Evaluating Collaborative Software Environments Based on Integration of House of Quality with Multi-Attribute Utility Theory</i>
Vasilyev, Sergey	APTP01.2		<i>Large-Scale Queuing Systems and Services Pricing</i>
Vikhrova, Olga	APTP02.2		<i>LTE Network Model with Signals and Random Resource Requirements</i>
Voloshina, Natalia	RAB01.4		<i>Image Encryption in Code Based Compression Algorithms Based on Multilevel Image Structure Model</i>
Volvenko, Sergey	TC02.1		<i>On the joint use of nonlinear amplifier and optimal signals with increased duration</i>
Vrazhevsky, Sergey	CS01.5		<i>Robust Control Algorithm under Mismatched Disturbances</i>
	CS01.4		<i>Robust Suboptimal Output Stabilization for Multi Input Multi Output Plants under Disturbances</i>
Vunder, Nina	CS01.2		<i>Digital Control System of the Recuperation Device</i>
W  A B C D E F G H I K L M N O P R S T U V W Y Z			
Wang, Jue	THZCOM02.1		<i>THz Electronics for Data Centre Wireless Links - the TERAPOD Project</i>
Warda, Ahmad	TC03.6		<i>Information content-based determination of optimal sensor number</i>
Wasige, Edward	THZCOM02.1		<i>THz Electronics for Data Centre Wireless Links - the TERAPOD Project</i>
	THZCOM02.3		<i>Building an End User focused THz based Ultra High Bandwidth Wireless Access Network: The TERAPOD Approach</i>
Waswa, Abubaker	TC01.2		<i>Implementation Aspects of Hierarchical Radio Resource Management</i>

Matovu			<i>Scheme for Overlay D2D</i>
Watanabe, Takashi	RAB02.4		<i>A CoMP Clustering Method in Consideration of Spectrum Sharing for Fairness Improvement</i>
Wu, Yong-Ting	TC03.5		<i>RIVA: A Real-time Information Visualization and Analysis Platform for Social Media Sentiment Trend</i>
Y		 TOP	A B C D E F G H I K L M N O P R S T U V W Y Z
Yu, Heejung	TC05.4		<i>Improvement of Spectrum Utilization with Retransmission in Cognitive Radio Networks: Analytical Approach</i>
Z		 TOP	A B C D E F G H I K L M N O P R S T U V W Y Z
Zarifeh, Nidal	TC02.5		<i>Probability of Coverage Based Analysis of Distributed Antenna System and its Implementation on LTE Based Real-Time-Testbed</i>
Zaripova, Elvira	APTP01.1		<i>Modeling of Vertical Handover from 3GPP LTE to Cognitive Wireless Regional Area Network</i>
Zavjalov, Sergey	TC02.1		<i>On the joint use of nonlinear amplifier and optimal signals with increased duration</i>
Zeman, Kryštof	TC05.2		<i>Accuracy Comparison of Propagation Models for mmWave Communication in NS-3</i>
Zhidkov, Sergey	TC02.2		<i>Orthogonal Transform Multiplexing with Memoryless Nonlinearity: a Possible Alternative to Traditional Coded-Modulation Schemes</i>
Zikria, Yousaf Bin	TC05.4		<i>Improvement of Spectrum Utilization with Retransmission in Cognitive Radio Networks: Analytical Approach</i>
Zoghdar-Moghadam-Shahrekohne, Behrouz	CS03.3		<i>A Novel Approach for Mitigating SSR in DF1G-Based Wind Farms Integrated into Series Compensated Network</i>
Zorin, Alexander	APTP01.5		<i>Application of the Noncommutative Theory of Statistical Decisions to the Modeling of Quantum Communication Channels</i>