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RUSSIA SECTION TEM/GRS/ITSS JOINT CHAPTER

2025 INTERNATIONAL CONFERENCE «ENGINEERING MANAGEMENT OF COMMUNICATION AND TECHNOLOGY» (EMCTECH)

IEEE Conference Record #65814

Vienna, Austria, on-line

October 15, 2025

CONFERENCE PROGRAM

Planned conference venue – Springer Schloessl Seminarhotel

Photo by organizers

For inclusion in publication program, an article must be online oral presented by one of the co-authors

THE PROGRAM INDICATES AUSTRIAN TIME UTC+2 (GMT+2)

OCTOBER 15 (WEDNESDAY)

9^{45} ... 10^{00}
REGISTRATION

10^{00} ... 10^{10}
WELCOME SPEECH BY PROGRAM COMMITTEE

Prof. Oleg Varlamov, *Doctor of Technical Science, Chairman of "Institute of Radio and Information Systems" (IRIS) Association, Austria, Senior Member, IEEE*

Dr. Svetlana Dymkova, *Chair of IEEE TEM/GRS/ITSS Joint Chapter, member, IEEE*

10^{10} ... 12^{40}
PLENARY SESSION

VLADIMIR DOKUCHAEV
Plenary Session Moderator

Professor (2001), Doctor of Technical Sciences (1999), Senior Science Researcher Degree in Telecommunication Networks and Teletraffic (1992), Ph.D. Degree (1990), TEMIC Fellow (2000). Member (Expert) of Group on Capacity Building Initiatives International Telecommunication Union (GCBI ITU), Switzerland: https://academy.itu.int/index.php/main-activities/gcbi/membership. IEEE member. Full member of the International Academy of Informatization (IAI). Author of more than 300 scientific and academic publications and monographs in the field of Telecommunication Networks Management, Teletraffic, Information Security, Data Risk Management, Human Capacity Building

10^{10} … 10^{40}	**Damith Wijewardana, Joseph Taylor Alexander,** *Eastern Institute of Technology, Gisborne, New Zealand* **Amr Adel,** *Eastern Institute of Technology, Napier, New Zealand* **Vladimir Fedorov,** *Moscow Technical University of Communications and Informatics, Moscow, Russia* **Noor Alani, Anastasia Mozhaeva,** *Eastern Institute of Technology, Napier, New Zealand* **FROM LAB TO REAL-WORLD: INDUSTRIALLY ORIENTED AI TRAINING WITHOUT HIGH-PERFORMANCE HARDWARE**
10^{40} … 11^{10}	**Alexander Pastukh,** *The M.I. Krivosheev National Research Centre for Telecommunication (NRCT), Moscow, Russia* **Valery Tikhvinskiy,** *The International Information Technology University, Almaty, Kazakhstan* **ASSESSMENT OF INTERFERENCE BETWEEN 5G/NR SYSTEMS AND FIXED-SATELLITE SERVICES IN THE 4500-4800 MHZ BAND USING MONTE CARLO SIMULATION**

11^{10} … 11^{40}	**Michael Mann,** *RGM Global Ventures, Vienna, Austria* **WHEN THE CROWD OUTSMARTS THE EXPERTS: MATHEMATICAL FOUNDATIONS OF COLLECTIVE INTELLIGENCE IN AI SYSTEMS**
11^{40} … 12^{10}	**Nataliya V. Solovyeva, Svetlana N. Maltseva** *Moscow Technical University of Communications and Informatics, Moscow, Russia* **PRAGMATIC AND LINGUACULTURAL ADAPTATION OF TEXTS FOR USER INTERFACE LOCALIZATION**
12^{10} … 12^{40}	**Geovanny García-Downing,** *Escuela de Ingeniería en Computadores Instituto Tecnológico de Costa Rica Cartago, Costa Rica* **Adriana Calderón-Barboza,** *Escuela de Ingeniería en Computadores Instituto Tecnológico de Costa Rica Cartago, Costa Rica* **Jason Leitón Jiménez,** *Escuela de Ingeniería en Computadores Instituto Tecnológico de Costa Rica Cartago, Costa Rica* **Luis Alberto Chaverría Zamora,** *Escuela de Ingeniería en Computadores Instituto Tecnológico de Costa Rica Cartago, Costa Rica* **Luis Alonso Barboza Artavia,** *Escuela de Ingeniería en Computadores Instituto Tecnológico de Costa Rica Cartago, Costa Rica* **DEEP LEARNING SYSTEM FOR DETECTION AND CLASSIFICATION OF BANANA AND PLANTAIN CULTIVATION ZONES IN SATELLITE IMAGES, IMPLEMENTING DATA PARALLELISM**

12^{40}... 13^{00} **COFFEE BREAK**

13^{00} ... 15^{30}

SESSION I

TECHNOLOGY ADVANCEMENTS IN IOT DEVICES & ARTIFICIAL INTELLIGENCE; BROADCAST TECHNOLOGIES ADVANCEMENTS – RADIO, IP, CELLULAR, ON DEMAND, INTERACTIVE; DIGITALIZATION PROCESS AND SECURITY MANAGEMENT IN DIGITAL SOCIETY AND INDUSTRY 4.0

VALERY TIKHVINSKIY
Session I Moderator

Doctor of Economics Science (2003), Ph.D. Degree in Radio engineering (1988), Member of European Standards Organization (ETSI), (TC/M2M, TC/ERM, TC/STQ) and oneM2M Partnership Project. Actively participated in ITU (ITU-R SG1), CEPT/ECC (ENC/WG RA, ENC/WG/FM). ITU Field Expert ID: 06169. ITU-D Mission: Erevan-2001 (Armenia), Sana'a-2005 (Yemen) and Astana (2014). Visit-Professor of Tunisian Telecommunication Institute (IsetCom, Tunisia) and International Information Technologies University (IITU, Kazakhstan), published over 350 scientific papers on Economic-legal, QoS – problems of telecommunications, Spectrum Management and EMC issues, author of 15-th books on Economic-legal and Technological issues of Internet of Things and 2G/3G/4G/5G/6G mobile communications.

13^{00} … 13^{20}	**Hannah Mae R. Bertulfo, Justine Troy C. Espiritu, Julianne Grace C. Gomez, Mhayvrick D. Macasieb, Veronica Jones M. Magno, Jaypy T. Tenerife** *Industrial Engineering Department Technological Institute of the Philippines Quezon City, Philippines* **STRATEGIC RISK MANAGEMENT IN PHARMACEUTICAL DISTRIBUTION: A QUALITATIVE CASE STUDY IN THE CONTEXT OF INDUSTRY 4.0**
13^{20} … 13^{40}	**Sarah Malaeb, Maroun Jneid, Imad Saleh** *Laboratoire Paragraphe EA 349, Ecole Doctorale ED 224 CLI Cognition, Langage, Interaction, Université Paris, Saint-Denis, France* **DEVELOPING A SEMANTIC INNOVATION CAPABILITIES TAXONOMY USING MACHINE LEARNING, GENERATIVE AI, AND NLP TECHNIQUES**
13^{40} … 14^{00}	**Michael Mann,** *RGM Global Ventures, Vienna, Austria* **BEYOND LIMITS: A MATHEMATICAL INFORMATION-THEORETIC FRAMEWORK REDEFINING AI GENERALIZATION BOUNDS**
14^{00} … 14^{20}	**Michael Mann,** *RGM Global Ventures, Vienna, Austria* **ENGINEERING DYNAMIC DEMOCRACY: A MATHEMATICAL MODEL AND BLOCKCHAIN-BASED IMPLEMENTATION FOR NEXT-GENERATION GOVERNANCE SYSTEMS**
14^{20} … 14^{40}	**Tatyana A. Kuzovkova, Maria M. Sharavova, Olga I. Sharavova, Polina A. Zholtikova** *Moscow Technical University of Communication and Informatics, Moscow, Russia* **THE IMPACT OF DIGITALIZATION ON THE NATURE AND MANAGEMENT SYSTEM OF DIGITAL SECURITY**
14^{40} … 15^{00}	**Olga I. Sharavova, Maria M. Sharavova, Tatyana A. Kuzovkova, Polina A. Zholtikova** *Moscow Technical University of Communication and Informatics, Moscow, Russia* **DIGITAL TRANSFORMATION AND THE EVOLUTION OF ITS SOCIO-ECONOMIC CONSEQUENCES**

15^{00} … 15^{20}	**Roman Umanskiy,** *Moscow Technical University of Communications and Informatics, Moscow, Russia* **Valery Tikhvinskiy,** *National Research University Higher School of Economics (HSE University), Moscow, Russia* **DESIGNING A BUSINESS MODEL CONTROLLING SYSTEM FOR THE DIGITAL ECOSYSTEM OF A MOBILE NETWORK OPERATOR**
15^{20} … 15^{40}	**Tatiana K. Artemova, Aleksey S. Gvozdarev, Mikhail A. Zuev,** *Department of Intelligent Radiophysical Information Systems (IRIS), P.G. Demidov Yaroslavl State University, Yaroslavl, Russia* **COMPARATIVE ANALYSIS OF AMPLIFY-AND-FORWARD VS DECODE-AND-FORWARD RELAY ASSISTED COMMUNICATION IN PRESENCE OF HYPER-RAYLEIGH FADING**
15^{40} … 16^{00}	**Aleksey S. Gvozdarev, Tatiana K. Artemova, Ilya D. Ermakov,** *Department of Intelligent Radiophysical Information Systems (IRIS), P.G. Demidov Yaroslavl State University, Yaroslavl, Russia* **THE IMPACT OF CHANNEL ESTIMATION QUALITY ON WIRELESS COMMUNICATIONS IN THE PRESENCE OF HYPER-RAYLEIGH FADING**

QUESTIONS AND DISCUSSION

16^{00}... 16^{15}
COFFEE BREAK

16^{15} … 19^{00}

SESSION II

DIGITAL TRANSFORMATION AND DATA RISK MANAGEMENT IN ICT/TELECOMMUNICATION ENGINEERING TECHNOLOGY LEADING TO SOCIAL AND ECONOMICAL CHANGE DEVELOPING PERSONAL SKILLS FOR LEADING INNOVATION INITIATIVES

VLADIMIR DOKUCHAEV
Session II Moderator

Professor (2001), Doctor of Technical Sciences (1999), Senior Science Researcher Degree in Telecommunication Networks and Teletraffic (1992), Ph.D. Degree (1990), TEMIC Fellow (2000). Member (Expert) of Group on Capacity Building Initiatives International Telecommunication Union (GCBI ITU), Switzerland: https://academy.itu.int/index.php/main-activities/gcbi/membership. IEEE member. Full member of the International Academy of Informatization (IAI). Author of more than 250 scientific and academic publications and monographs in the field of Telecommunication Networks Management, Teletraffic, Information Security, Data Risk Management, Human Capacity Building

16^{15} … 16^{30}	**Mariya Kolomeytseva,** *Moscow Technical University of Communication and Informatics, Moscow, Russia* **USING DIGITAL TECHNOLOGIES TO DEVELOP CRITICAL THINKING IN EDUCATION**
16^{30} … 16^{45}	**Andreas Kh. Marinosyan** *Moscow City Pedagogical University, Moscow, Russia* **Marina A. Anikyeva** *Institute of Space and Information Technologies, Siberian Federal University, Krasnoyarsk, Russia* **STRUCTURING AND ANALYSIS OF SCIENTIFIC TEXTS BASED ON ACADEMIC GENEALOGY**
16^{45} … 17^{00}	**Alena Mikhaylova, Lidia Sklyar, Tatyana Bocharova, Olga Trubach** *Moscow Technical University of Communication and Informatics, Moscow, Russia* **TECHNOLOGIES FOR HUMANITARIAN EDUCATION OF THE DIGITAL GENERATION**
17^{00} … 17^{15}	**Ekaterina A. Karelina, Anna M. Kanunnikova, Fedor Yuю Baikov,** *State University of Management, Moscow, Russia* **THE ROLE OF DIGITAL TECHNOLOGIES IN THE TRANSFORMATION OF GLOBAL AGRI-FOOD SYSTEMS**
17^{15} … 17^{30}	**Vladimir Dokuchaev,** *International Telecommunication Union (GCBI ITU), Geneva, Switzerland* **DIGITAL TWINS: NEW RISKS OF MULTI-CLOUD INFORMATION SYSTEMS ARCHITECTURE**

COFFEE BREAK

17^{30} … 17^{45}	**Svetlana N. Maltseva,** *Moscow Technical University of Communications and Informatics, Moscow, Russia* **Anna Yu. Pavlova,** *Russian University of Transport (MIIT), Moscow, Russia* **ENHANCING CRITICAL THINKING AND INFORMATION ANALYSIS COMPETENCIES IN IT STUDENTS**
17^{45} … 18^{00}	**Korableva Elena, Shakolyukova Valentina,** *Moscow Technical University of Communications and Informatics, Moscow, Russia* **CURRENT TRENDS AND PROSPECTS FOR THE DEVELOPMENT OF THE DIGITAL INNOVATION ECOSYSTEM IN DIFFERENT REGIONS OF THE WORLD**
18^{00} … 18^{15}	**Galina P. Platunina, Tatyana Y. Salutina, Yulia V. Gnezdova, Irina A. Frank,** *Moscow Technical University of Communication and Informatics, Moscow, Russia* **TECHNOLOGICAL CONTROLLING: DIGITAL TRANSFORMATION OF MANAGEMENT DECISIONS**
18^{15}... 18^{30}	**Natalya I. Obukhova, Galina P. Platunina, Shaydula N. Gatiyatulin, Milana T. Benia** *Moscow Technical University of Communications and Informatics, Moscow, Russia* **DEVELOPING RESILIENCE AND ADAPTIVE THINKING AS KEY COMPETENCIES FOR MANAGERS**

$18^{\underline{30}}$... $19^{\underline{00}}$
QUESTIONS AND DISCUSSION

Planned conference venue – Springer Schloessl seminarhotel
Photo by organizers

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