



INTERNATIONAL CONFERENCE

**«ENGINEERING MANAGEMENT
OF COMMUNICATION AND TECHNOLOGY»
(EMCTECH)**

IEEE Conference Record #58502

**Vienna, Austria
October 16 – 18, 2023**

**FINAL INFORMATION
AND STATISTICS**

**“Connecting Development of Technology,
Engineering Management and Personal Skills”**



International conference

"ENGINEERING MANAGEMENT OF COMMUNICATION AND TECHNOLOGY" (EMCTECH) was held on October 16-18, 2023 in Vienna (Austria)

On EMCTECH-2023 was invited researchers, educators, managers, and students, which research activity, case studies or best practices, shedding light on the theory or practice of engineering, technology, innovation management, or development of personal skills, business and entrepreneurship.

CONFERENCE ORGANIZERS:

- INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE);
- INSTITUTE OF RADIO AND INFORMATION SYSTEMS (IRIS ASSOCIATION, VIENNA, AUSTRIA)
- RUSSIA SECTION TEM/GRS/ITSS JOINT CHAPTER

CONFERENCE EMCTECH-2023 WILL PRODUCE A PUBLICATION. All accepted and presented Papers following the conference will be submitted for inclusion into IEEE Xplore and will be submitted also for indexing in Scopus and Web of Science data bases.

FIELD OF INTEREST ON EMCTECH-2023:

- Technology advancements in IoT devices, artificial Intelligence, Broadcasting, wire and optical communication;
- New opportunities using technology in BioMedical, Farming, Transportation, and Cyber Physical Systems;
- Digital Transformation and Data Risk Management in ICT/Telecommunication, smart cities, public policy;
- Engineering technology leading to social, political and economical change.

On EMCTECH-2023 IEEE in cooperation with Institute of Radio and Information Systems (IRIS) provide various opportunities for publishing results of research, based on international scientific and technical cooperation of researchers, PhD students and students in the field of radio and information systems.

EMCTECH TOTAL STATISTICS

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Year	Applications	Accepted papers	% of accepted papers	IEEE Members - Conference Participants	Conference participants	Conference authors	Organizations	Cities	Countries/ Continents
2020	95	57	60	10	201	139	38	17	12/5
2021	46	28	60	10	80	65	31	25	22/5
2022	95	46	48	10	140	122	44	29	11/3
2023	46	24	52	10	180	72	20	14	8/2

The table shows statistical data based on the conference results (four years), taking into account the COVID-19 period. Please note that despite COVID, the percentage of confirmed for the publication program reports has not changed. At the same time, the number of submitted reports changed despite external conditions, and the number of co-authors and their geographical location varied from year to year.

The papers which are discussed at the conference can be divided into the following topics:

TECHNOLOGY ADVANCEMENTS IN IOT DEVICES & ARTIFICIAL INTELLIGENCE

SMART CONTROL TECHNOLOGY IN TRANSPORTATION, FARMING AND CYBER PHYSICAL SYSTEMS

BROADCAST TECHNOLOGIES ADVANCEMENTS – RADIO, IP, CELLULAR, ON DEMAND, INTERACTIVE

TECHNOLOGY ADVANCEMENTS IN WIRE AND OPTICAL COMMUNICATION AND CONTROL SYSTEMS

DIGITALIZATION PROCESS AND SECURITY MANAGEMENT IN DIGITAL SOCIETY

DIGITAL TRANSFORMATION AND DATA RISK MANAGEMENT IN ICT/TELECOMMUNICATION

DEVELOPING PERSONAL SKILLS FOR LEADING INNOVATION INITIATIVES

20 companies took part in the conference:

1. ADiT-LAB, Instituto Politécnico de Viana do Castelo, Viana do Castelo, Portugal
2. ALGORITMI Research Center / LASI, Universidade do Minho, Guimarães, Portugal
3. Austrian Center for Digital Production, Technologies, TU Wien, Vienna, Austria
4. Department. of Intelligent Radiophysical Information Systems (IRIS), P.G. Demidov Yaroslavl State University, Yaroslavl, Russia
5. Financial University under the Government of the Russian Federation, Moscow, Russia
6. GCBI ITU-D, Geneva, Switzerland
7. HSE University, Moscow, Russia
8. IFT – Institute of Production Engineering and Photonic Technologies, TU Wien, Vienna, Austria
9. Institute of Radio and Information Systems (IRIS), Vienna, Austria
10. International Information Technology University, Almaty, Kazakhstan
11. Kanza Research: Resilient Built Environment (RBE), Faculty of Technology Management and Business (FPTP), University Tun Hussein Onn Malaysia, Johor, Malaysia
12. Moscow Aviation institute (National Research University), Moscow, Russia
13. Moscow Technical University of Communication and Informatics, Moscow, Russia
14. National Central University, Taoyuan, Taiwan
15. National Tsing Hua University, Hsinchu, Taiwan
16. RFmondial GmbH, Hannover, Germany
17. St.-Petersburg State University of Aerospace Instrumentation, Saint-Petersburg, Russia
18. State University of Management, Moscow, Russia
19. Tomsk State University of Control Systems and Radioelectronics, Tomsk, Russia
20. Yuri Gagarin State Technical University of Saratov, Saratov, Russia

Participants with reports from 14 cities and 8 countries took part in the conference:

Almaty, Kazakhstan
Geneva, Switzerland
Guimarães, Portugal
Hannover, Germany
Hsinchu, Taiwan
Johor, Malaysia
Moscow, Russia

Saint-Petersburg, Russia
Saratov, Russia
Taoyuan, Taiwan
Tomsk, Russia
Viana do Castelo, Portugal
Vienna, Austria
Yaroslavl, Russia

Some of reports were presented at a plenary session, the remaining reports were distributed over two sessions. The sessions were moderated by leading industry experts.

Session 1: Vladimir Dokuchaev, Professor, Doctor of Technical Sciences, TEMIC Fellow, Member (Expert) of Group on Capacity Building Initiatives International Telecommunication Union (GCBI ITU), Switzerland, IEEE member. Author of more than 250 scientific and academic publications in the field of Telecommunication Networks Management, Teletraffic, Information Security, Data Risk Management, Human Capacity Building.

Session 2: Elena Korableva, Associate professor, Doctor of Philosophy, Specializing in Ontology and Gnoseology, author of more than 150 scientific publications. Her Academic interests are Ontology, Gnoseology, person in information-oriented society, humanitarian dimensions of intelligent networks.

The authors of the best reports, based on the decisions of the conference program committee, are annually awarded commemorative diplomas. After several years of EMCTECH international conference successful holding, one can conclude that these publications are in demand in the scientific community.

Based on the results of past EMCTECH conferences, in the engineering and technology community, there is no sharp increase in the number of co-authors and geography of participants. At the same time, having considered the topics of scientific articles submitted for review, we can conclude that this area of research is expanding, including a noticeable increase in the number of publications of artificial intelligence and widespread use of information technology.

The next EMCTECH conference – October 16-18, 2024

Vienna, Austria