ISMSFuN 2022

Special Session on Intelligent Solutions for Management and Securing Future Networks

at the 14th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2022)
Almaty, Kazakhstan, June 6-9, 2022
Conference website: http://www.aciids.pwr.edu.pl/

Special Session Organizers

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Objectives and topics

The success of Future Networks e.g. related to 5G technology will be determined by the presence of applications and services that use the network to provide new opportunities to users, facilitating their functioning in society or serving companies to provide better products to consumers. For this reason, research on the applications of Future Networks seems to be as important as research on the development of data transmission technology itself. The scope of the research related to Future Networks applications includes technical possibilities in areas such as medicine, aviation, shipping, transport, energy, industry, smart cities and IoT. So far, each subsequent stage in the development of ICT networks has created new challenges in the context of ensuring a high level of security to network users and has set new requirements for the solutions or devices used. Security problems can be solved at the stage of implementing the Future Network infrastructure, therefore it is important to provide a research environment that will allow for the identification of security problems in the network and work on new security, algorithms and services allowing to raise the level of security. The goal of the session is to bring together researchers and technology which would provide better understanding of Future Network management, security, and novel applications based on artificial intelligence and machine learning. The scope of the ISMSFuN 2022 includes, but is not limited to the following topics:

- Measurement of traffic generated by different types of applications such as audio, video, data etc.
- Measurements of collective traffic
- Modeling the traffic generated by different types of applications
- Modeling of collective traffic
- Authentication techniques
- Machine learning techniques to improve authentication

- Communication resource allocation and management in New Generation Networks
- Computational resource allocation and management in distributed service-based systems
- Algorithms and methods for New Generation Networks
- New patterns and algorithms for distributed systems
- Distributed systems and microservice architecture
- Practical applications of 5G and distributed service-based systems solutions in IoT, Industry 4.0 and other Smart Systems
- Application of blockchain technology for the purposes of secure authentication and ensuring privacy
- Security of IoT systems.
- Knowledge Management for Security Threats Detection
- Data Mining and Data Correlation for Anomaly Detection and Security Boost
- Application of AI in System Monitoring and Incident Response
- Uncertainty and Big Data in OT/PCS/ICS/SCADA Security
- Nature-Inspired Algorithms for IT and OT Security
- Cyber-Threat Intelligence & Information Sharing
- Risk Management (SIEM, IT Audits, Security Metrics)

Important dates

Submission of papers: **January 15, 2022 (EXTENDED - HARD)**
Notification of acceptance: **March 1, 2022**
Camera-ready papers: **March 15, 2022**
Registration & payment: **March 15, 2022**
Conference dates: **June 6-9, 2022**

Program Committee (to be invited)

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Józef Woźniak , Gdańsk University of Technology, Poland
Dawid Zydek, University of Nevada, Las Vegas, USA

Submission

All contributions should be original and not published elsewhere or intended to be published during the review period. Authors are invited to submit their papers electronically in pdf format, through EasyChair. All the special sessions are centralized as tracks in the same conference management system as the regular papers. Therefore, to submit a paper please activate the following link and select the track: ***ISMSFuN 2022: Special Session on Intelligent Solutions for Management and Securing Future Networks.***

https://easychair.org/conferences/?conf=aciids2022

Authors are invited to submit original previously unpublished research papers written in English, of up to 13 pages, strictly following the LNCS/LNAI format guidelines. Authors can download the Latex (recommended) or Word templates available at Springer's web site. Submissions not following the format guidelines will be rejected without review. To ensure high quality, all papers will be thoroughly reviewed by the EAML 2022 Program Committee. All accepted papers must be presented by one of the authors who must register for the conference and pay the fee. The conference proceedings will be published by Springer in the prestigious series LNCS/LNAI (indexed by ISI CPCI-S, included in ISI Web of Science, EI, ACM Digital Library, dblp, Google Scholar, Scopus, etc.).