

AIIS 2022

Special Session on Artificial Intelligence in Information Security

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 speed of development and change of cyberspace in the last 3-5 years has amazed the imagination of not only inexperienced users, but also venerable specialists in the field of information technology and information security. There is an exponential development not even of the volume of processed data, the number of devices or applications/services connected to the Internet, but also of the concepts and technologies themselves, and the comprehensive digitalization and the transition of most businesses to online in connection with the pandemic has only accelerated this trend.

Classical deviation analysis systems are built, as a rule, on some rules set in advance by operators: for example, exceeding the volume of specific traffic, a certain number of unsuccessful authentication attempts, and a certain number of consecutive triggers of information security. Systems based on artificial intelligence will be able to make automated decisions and help security personnel make faster and more effective decisions about attacks or anomalies.

We would like to offer an opportunity for researchers and practitioners to identify new promising research directions as well as to publish recent advances in this area. The scope of the AIIS 2022 includes, but is not limited to the following topics:

- Information Security
- Cybersecurity
- Machine Learning
- Deep learning
- Neural Networks
- AI-based methods for cybersecurity
- AI-based methods for cyber attacks
- AI-based methods for anomalies detection
- AI-based detection/defense for cyber attacks
- AI for protecting data in cyberspace security
- AI for system security in cyberspace
- AI for mobile security
- Artificial Intelligence of Things
- Adversarial attack and defense in cyberspace
- Adversarial machine learning in cyberspace
- Research challenges in AI for cyberspace security

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)

Haider Abbas, National University of Sciences and Technology Pakistan, Islamabad, Pakistan
Shynar Mussiraliyeva, Al-Farabi Kazakh National University, Kazakhstan
Batyrbek Omarov, Al-Farabi Kazakh National University, Kazakhstan
Zhanna Alimzhanova, Al-Farabi Kazakh National University, Kazakhstan
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Nursulu Kapalova, Institute of Information and Computer Technologies, Almaty, Kazakhstan
Nurgul Seilova, International Information Technology University, Almaty, Kazakhstan

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: **AIIS 2022: Special Session on Artificial Intelligence in Information Security**.

<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 AIIS 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.).