

Call for Contributions

Submission

1. **Inform the Chair:** with the Title of your Contribution

2. **Submission URL:**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=CYBER+2019+Special>

Please select Track Preference as **AICYBER**

Special track

AICYBER: The Nexus of Cognitive Computing, Artificial Intelligence and Cyber Security – Anomaly Detection at Scale

Chair and Coordinator

Steve Chan, Decision Engineering Analysis Laboratory, USA

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along with

CYBER 2019, The Fourth International Conference on Cyber-Technologies and Cyber-Systems

<http://www.iaria.org/conferences2019/CYBER19.html>

September 22, 2019 to September 26, 2019 - Porto, Portugal

The cycles of adaptation by cyber attackers are ever increasing and the amount of data to analyze is increasingly exponentially. To meet these evolving threats, cyber defenders are increasingly utilizing Cognitive Computing and Artificial Intelligence (AI) to assist them with anomaly detection at scale. Cognitive computing aims to solve problems with naturalistic processes (e.g., human thinking). The Turing Archive for the History of Computing defines AI as “the science of making computers do things that require intelligence when done by humans.” Practitioners often explain the relationship among AI, Machine Learning (ML), and Deep Learning (DL) as follows: AI comprises a field that seeks to ascertain solutions to complex problems. Machine learning is a subdomain of AI and uses mathematical and statistical ways to extract information from data. DL is a subdomain of machine learning and endeavors to learn the data, such as with an artificial neural network approach. In contemporary times, cyber practitioners are endeavoring to leverage all the above in the defense of their systems. This special track will endeavor to foster stimulating conversation and serve as an intellectual launching pad for advanced thoughts to address the cyber storm that is brewing.

Topics include, but not limited to:

- Next-Generation Cyber Capabilities
- Cognitive Computing, Artificial intelligence, and Machine Learning
- Artificial Intelligence for Smarter Cybersecurity
- Cyber Data-Driven Analytics
- Cyber Threat Intelligence
- Cyber Electromagnetic Spectrum Vulnerabilities
- Protecting strategic/critical infrastructure against Cyber Attacks
- Cyber Security for Smart Cities
- Blockchain for Cyber Security
- The Future of Cyber Security

Important Datelines

Inform the Chair: As soon as you decide to contribute

Submission: July 26, 2019

Notification: August 16, 2019

Registration: August 26, 2019

Camera-ready: August 26, 2019

Note: These deadlines are somewhat flexible, providing arrangements are made ahead of time with the chair.

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaia.org]
- Presentations: slide only [slide-deck posted on www.iaia.org]
- Demos: two pages [posted on www.iaia.org]

Paper Format

- See: <http://www.iaia.org/format.html> [both LaTeX and .doc templates]
- Before submission, please check and comply with the editorial rules: <http://www.iaia.org/editorialrules.html>
- More information on camera ready preparations will be posted after the paper notifications are sent out.

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaiajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

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Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaia.org/registration.html>

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