Call for Papers: The 5th Age of Information Workshop
in conjunction with IEEE INFOCOM 2022, Virtual Conference, May 2, 2022

Freshness of information underpins the operation of cyber-physical systems and Internet-of-Things applications that constitute key use cases of next generation communication networks. These use cases span a range of verticals including healthcare, agriculture, and intelligent transportation. Next generation wireless technologies promise links with very low latencies of the order of milliseconds. This and edge computing are key to low-latency networking. However, research on age of information (AoI) metrics has now established that low-latency networking by itself is insufficient to enable freshness. In fact, design principles that underlie current networks must be revisited to ably support the next generation of applications that require fresh information.

This has spurred new research formulations related to AoI in all layers of communication networks and has created an active research community around the topic. Building on the success of the first four AoI Workshops, the 5th Age of Information Workshop (AoI Workshop), which will be held virtually on May 2, 2022 in conjunction with IEEE INFOCOM 2022, invites papers on topics of interest that include, but are not limited to:

- AoI Analysis and Optimization
- Age-based Source and Channel Coding
- AoI and Information Theory
- Real-time Signal Tracking and Estimation
- Age of Channel State Information
- AoI in Robotics and Control Systems
- AoI and Security
- Cross-Layer Design for AoI
- AoI and Distributed Computing
- AoI and Networking
- AoI and Game Theory
- AoI and Control Theory
- AoI and Machine Learning
- Data Freshness in Caches and Databases
- Fresh Big Data
- Fresh Data for Online Learning
- AoI and Operations Research
- Applications of AoI

The AoI Workshop calls for original and previously unpublished papers, up to 6 pages (with the option of 2 extra pages at $100 per extra page). Manuscripts must be formatted in standard IEEE camera-ready format (double-column, 10-pt font) and submitted as PDF files (formatted for 8.5x11 inch paper) through the EDAS website: TBA.

Important Dates
Submission Deadline: December 20, 2021 (tentative)
Notification of Acceptance: February 6, 2022 (tentative)
Camera Ready: February 28, 2022 (tentative)

Organizing Committee
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