CALL FOR PAPERS

SELECTED AREAS IN COMMUNICATIONS SYMPOSIUM

DATA STORAGE TRACK

Track Chair

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Scope and Topics of Interest

Data storage systems have revolutionized information technology over the past several decades, evolving from punch cards to today's hard disk drives, optical disks, flash memories etc. Physical data storage technologies such as STT RAMs, phase change memories, memristors etc. are emerging as possible alternatives on the technology timescale. We need innovative channels engineering to realize high storage densities with high throughput and better energy efficiencies for these systems. Also, massive distributed storage networks have emerged catering to ubiquitous access to reliable and secure access of data. Designing high speed and energy efficient architectures for such large scale distributed storage systems is a problem of timely importance.

The goal of this data storage track is to bring together researchers and technologists to present novel and significant results on fundamental and applied aspects of physical and distributed data storage.

To ensure complete coverage of the advances in this field, the Data Storage Track of the SAC Symposium solicits original contributions in, but not limited to, the following topical areas:

- Novel signal processing methods for emerging hard disk drive technologies such as TDMR, bit-patterned media recording etc.
- Channel characterization for flash memories and other emerging technologies such as RRAMs, memristors, phase change memories etc.
- Error correction and modulation codes for data storage channels
- Information theoretic aspects for data storage channels
- Innovative channels engineering aspects of optical storage systems
- Architecture and circuit design aspects for data storage
- Coding techniques for distributed storage networks
- Security and data compression for cloud storage and storage devices
- Energy-efficient designs for distributed storage
- Architecture and design of large-scale storage subsystems based on emerging non-volatile memories

Submission Guidelines

The IEEE ICC 2018 website provides full instructions on how to submit papers & the paper format.

You will select the desired symposium/track when submitting.

The paper submission deadline is October 15, 2017.

Only PDF files will be accepted for the review process and all submissions must be done through EDAS at http://edas.info/