NAS 2022 Call for Papers

IEEE · **IEEE computer society**

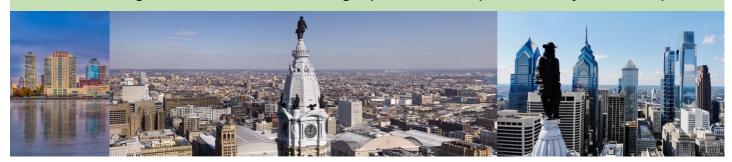## The 16th IEEE International Conference on Networking, Architecture and Storage (NAS 2022, sponsored by the IEEE)

Philadelphia, PA, October 3-4, 2022, http://www.nas-conference.org

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The International Conference on Networking, Architecture, and Storage provides a high-quality international forum to bring together researchers and practitioners from academia and industry to discuss cutting-edge research on networking, high-performance computer architecture, and parallel and distributed data storage technologies. NAS 2022 will expose participants to the most recent developments in the interdisciplinary areas.

Each submission can be either a regular paper (up to 8 pages) or a short paper (up to 4 pages), including all text, figures, tables, footnotes, appendices, references, etc. Authors are invited to submit previously unpublished work for possible presentation at the conference. The program committee will nominate best papers for recognition in the three conference topic areas. All papers will be evaluated based on their novelty, fundamental insight, experimental evaluation, and potential for long-term impact; new-idea papers are encouraged. All accepted papers will be published in IEEE digital library. Selected and extended papers will be recommended for journal publications.

- Accelerator-based architectures
- Ad hoc and sensor networks
- Application-specific, reconfigurable (FPGA) or embedded architectures
- Architecture for handheld or mobile devices
- Architecture, networking or technologies storage modeling and simulation methodologies
- Big Data infrastructure
- Big Data services and analytics
- Cloud computing and storage
- Augmented/Virtual Reality arch
- Data-center scale architectures
- Effects of circuits and emerging technology on architecture
- Hardware security
- File systems, object-based
- Storage performance and scalability
- GPU architecture and programming
- Quantum computing

- Mobile and wireless networks
- Network applications and services
- Network architecture and protocols
- Network information theory
- Network modeling and measurement
- Network security
- Non-volatile memory
- Parallel and multi-core architectures
- Parallel I/O
- Power and energy efficient architectures and techniques
- Processor, cache, memory system architectures
- Software defined networking
- Software defined storage
- SSD architecture and applications
- Storage management
- Storage virtualization and security
- Virtual and overlay networks

Important Dates:

Paper submission deadline:	May 29, 2022
Author notification:	July 1, 2022
Camera-ready submission:	July 22, 2022