

CALL FOR PAPERS

2024 International Conference on Advances in Parallel and Distributed Computing

Tiako Center, Oklahoma City, OK, USA & Online, April 1-4

Oklahoma International Publishing (OKIP) is pleased to host the 2024 International Conference on Advances in Parallel and Distributed Computing (APDC). The conference aims to bring together scholars from different disciplinary backgrounds to emphasize dissemination of ongoing research and development in the field. Proposals are solicited describing original works in fields below and related technologies. APDC will include a peer-reviewed program of technical, industrial and poster sessions. Accepted and presented full papers from the tracks below will be published by OKIP and submitted for indexation in major abstract and citation databases of peer-reviewed literature. Extended version of best papers will be considered for Journal publication.

High-Performance Computing

- HPC Advanced Concepts
- Performance | Scalability | Virtualization
- Fault Tolerance | Reliability | Availability
- Multicore Algorithms | Operating System
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Parallel Computing

- Parallelism | Automatic Parallelization
- Programming Languages/Libraries/Tools/Model
- Parallel/Distributed Algorithms/Architectures
- Energy Factors/Technological Factors
-

Mobile & Wireless Computing

- Communication Modeling/Designing/Analysis
- Mobile/Wireless Software and Hardware
- Heterogeneous Wireless Networks
- ...

Network Architecture/System

- Interconnection Networks and Architectures
- I/O, File Systems and Memory System
- Power-Efficiency | Systems-on-Chip
- Fault-Tolerant Algorithms/Systems
- ...

Parallel/Distributed (P/D) Systems Security

- Security | Privacy | Compliance | Simulation
- Edge Computing Security

Technical Research & Industry Contribution

Full Paper: Accomplished research results (6 pages)

Short Paper: Work in progress/fresh developments (3 pages)

Poster/Journal First: Displayed/Oral presented (1 page)

Corporate Showcase & Exhibition

Booth: Display product and/or service offerings (1 page)

Oral: Present product and/or service offerings (1 page)

- Trusted Computing | Crowdsourcing
- Cyber-physical Systems Security
- Distributed/Embedded Systems Security
- ...

Blockchain and Information Warfare in Wireless/P/D Systems

- Blockchain and Distributed Ledgers
- Wireless and Digital Forensics
- Trust Authority Distribution
- Wireless/Bluetooth Information Assurance (IA)
- ...

P/D Applications

- HPC Applications and Case Studies
- Grid/Cloud/Fog/Bio-inspired Computing
- Augmented/Virtual Reality
- ...

Cloud Computing Concepts/Applications/Services

- Pervasive Computing | Cloud Standards
- Public/Private/Hybrid Cloud | Governance
- Multi-Tenancy Clouds | 5G/6G/7G Cloud
- Business Models | Industry-Specific Clouds
- ...

Platform/Provisioning/Storage in P/D Systems

- Containers | Public/Private/Hybrid Storage
- Integrated Circuits | Processing Units

- FPGAs/GPUs/APUs/TPUs/vCPUS Design
- System Scalability/Performance/Evaluation
- Computational Resources/Engines/Functions
- ...

Infrastructure in P/D Systems

- Performance and Optimization in the Cloud
- Architect. Modeling/Components Distribution
- Cloudlet Infrastructure | Edge-Cloud Systems
- Performance Monitoring/Evaluation
- ...

Data/Big-Data in P/D Systems

- Data Encryption Techniques
- Data Mining Theoretical Foundation
- Scientific and Statistical Data Mining
- ...

Algorithms/Models/Prog. in P/D Systems

- Algorithms, Models, and Formal Verification
- Graph Algo | Model Checking for P/D Comp.
- Message/Shared-Memory Broadcasting
- ...

Distribution, Componentization, and Collaboration

- Formal Methods and Theoretical Foundations
- Component-Based Software Engineering
- Critical and Embedded Software Design
- ...

Student Poster & Career Fair

Graduate & Doctoral: Peer-reviewed Poster (1 page)

Undergraduate/High School: Selected Poster (1 page)

Recruiter Booth: Product/Service & Job offerings (1 page)

Workshop, Tutorial, Forum & Panel

Workshop, Tutorial & Tour: Proposal (1 page)

Executive Forum, Panel & Talk: Proposal (1 page)

For more information, submission details and important dates visit or contact:

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