PERFORMANCE EVALUATION
An International Journal

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DESCRIPTION

*Performance Evaluation* functions as a leading journal in the area of modeling, measurement, and evaluation of performance aspects of computing and communication systems. As such, it aims to present a balanced and complete view of the entire Performance Evaluation profession. Hence, the journal is interested in papers that focus on one or more of the following dimensions:

- Define new performance evaluation tools, including measurement and monitoring tools as well as modeling and analytic techniques
- Provide new insights into the performance of computing and communication systems
- Introduce new application areas where performance evaluation tools can play an important role and creative new uses for performance evaluation tools.

More specifically, common application areas of interest include the performance of:
- Resource allocation and control methods and algorithms (e.g. routing and flow control in networks, bandwidth allocation, processor scheduling, memory management)
- System architecture, design and implementation
- Cognitive radio VANETs
- Social networks and media
- Energy efficient ICT
- Energy harvesting
- Data centers
- Data centric networks
- System reliability
- System tuning and capacity planning
- Wireless and sensor networks
- Autonomic and self-organizing systems
- Embedded systems
- Network science

Further, common performance evaluation tools of interest include:
- Queueing theory
- Scheduling theory
- Simulation methods
- Data analysis
- Measurement techniques (e.g. software and hardware monitors)
- Workload characterization
- Stochastic geometry
- Large deviations
- Mean-field theory
- Game theory
- Equilibrium analysis

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AUDIENCE

System Designers, Implementors, Theoricians and Analysts concerned with performance aspects of computers, computer communications, telecommunications and distributed systems.

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GUIDE FOR AUTHORS

INTRODUCTION
Topics are drawn from, but are not restricted to, the following areas:

• Performance studies of computers, computer communications, telecommunications and distributed systems
• Resource allocation and control methods and algorithms (e.g. routing and flow control in networks, bandwidth allocation, processor scheduling, memory management)
• System reliability
• Modeling and analysis methods (e.g. queueing and scheduling theory, simulation methods, data analysis)
• Measurement techniques (e.g. software and hardware monitors) and workload characterization
• System architecture, design and implementation discussed from a performance viewpoint
• Performance evaluation applications (e.g. system tuning, procurement, capacity planning)
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