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.

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- 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:
- Queuing 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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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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