



PERFORMANCE EVALUATION

An International Journal

AUTHOR INFORMATION PACK

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ISSN: 0166-5316

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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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) and workload characterization stochastic geometry large deviations mean-field theory game theory and 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)
- Case studies and model validations

Types of Paper

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[2] Van der Geer, J., Hanraads, J.A.J., Lupton, R.A., 2018. The art of writing a scientific article. *Heliyon.* 19, e00205. <https://doi.org/10.1016/j.heliyon.2018.e00205>.

Reference to a book:

[3] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

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[4] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281–304.

Reference to a website:

[5] Cancer Research UK, *Cancer statistics reports for the UK*. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13 March 2003).

Reference to a dataset:

[dataset] [6] M. Oguro, S. Imahiro, S. Saito, T. Nakashizuka, Mortality data for Japanese oak wilt disease and surrounding forest compositions, *Mendeley Data*, v1, 2015. <https://doi.org/10.17632/xwj98nb39r.1>.

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