

Scalable Computing: Practice and Experience

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Scope and history

SCPE provides avenue for publishing original refereed high-quality papers that address the present and future of distributed and parallel computing. The journal focuses on algorithm development, implementation and execution on real-world distributed and parallel architectures, as well as application of distributed and parallel computing and systems to the solution of real-life problems.

SCPE has been created in 1998 (until 2002 it appeared in print as PDCP: Parallel and Distributed Computing Practices, ISSN 1097-2803). In 2005 it changed its name to the current one and, as SCPE, started to appear only in an electronic format (4 numbers per year). It is published in English, in an open access format, with **no fee charged to the authors**.

Topics of interest

- Distributed systems*: Cloud computing; Communication optimizations and tools; Dependable business- and mission-critical systems; Distributed and cluster operating systems; Distributed data-bases - design and languages; Distributed management & control; Fault-tolerance and testing; Heterogeneous databases; High-speed networks; Grid computing; Interconnection net-works and communication algorithms; Internet computing; Middleware; Mobile computing; Object-oriented databases; Peer-to-peer systems; Quality control; Real-time systems; Digital transmission systems
- Parallel and high performance computing*: Input/output concepts; Parallel algorithms; Parallel computing libraries; Parallel data mining; Parallel file systems; Parallel numerical algorithms; Performance evaluation; Programming languages; Scheduling; Load balancing; Systolic algorithms
- Intelligent techniques in distributed/parallel system*: Data mining; Expert systems; Functional programming languages; Fuzzy logic; Genetic algorithms; Neural networks; Software agents; Software engineering
- Computer Architectures*: Analysis and synthesis of parallel and distributed systems; Cellular automata; Design of VLSI circuits; Microprocessor architectures; Modeling of complex systems and software architectures; Multi-processor systems; Parallel architectures; Service-oriented architectures; Specification notations
- Scientific computing and applications*: Algorithms in numerical analysis; Bioinformatics, biomedicine, computational biology; Environmental problems; Image processing; Large scale scientific computations in engineering; Mathematical software; Methods and algorithms for scientific computing; Multimedia applications; Web-based applications

Types of articles

- Research papers – limited to approximately 20 pages. Each paper appropriate for the journal will be refereed by a minimum of two referees
- Overview papers that summarize historical developments, state of the art and current research directions of selected subfields of parallel and distributed computing. There is no a priori length restriction. Each overview paper appropriate for the journal will be refereed by a minimum of three referees
- Short communications – limited to 5 pages
- Book and software reviews

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When appropriate, the author is responsible for obtaining the necessary copyright releases for all copyrighted material. Only electronic submissions are possible.

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