

Scalable Computing: Practice and Experience

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Scientific International Journal for Parallel and Distributed Computing

Aim

The area of scalable computing has matured and reached a point where new issues and trends require a professional forum.

SCPE provide this avenue by publishing original refereed papers that address the present and future of distributed and parallel computing.

The journal focus on algorithm development, implementation and execution on real-world distributed and parallel architectures, as well as application of distributed and parallel computing to the solution of real-life problems.

Types of articles

- Research papers
- Overview papers
- Short communications
- Book reviews

Special issues

Substantially revised versions of papers published in not easily accessible conference proceedings can be submitted.

Particularities

- Provide high quality content for free
- Published from 1998
- From 2005 only in electronic version
- 4 numbers per year
- Until 2002 published as *PDCP: Parallel and Distributed Computing Practices*, ISSN 1097-2803

Topics of Interest

- *Distributed systems*: Cloud computing; Communication optimizations and tools; Dependable business- and mission-critical systems; Distributed and cluster operating systems; Distributed databases – 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

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