



4 issues/year

Electronic access

► link.springer.com

Subscription information

► springer.com/librarians

New Generation Computing

Editor-in-Chief: M. Numao

► **Dedicated for the development of new computational and cognitive paradigms**

The journal is specially intended to support the development of new computational and cognitive paradigms stemming from the cross-fertilization of various research fields. These fields include, but are not limited to, programming (logic, constraint, functional, object-oriented), distributed/parallel computing, knowledge-based systems, agent-oriented systems, and cognitive aspects of human embodied knowledge. It also encourages theoretical and/or practical papers concerning all types of learning, knowledge discovery, evolutionary mechanisms, human cognition and learning, and emergent systems that can lead to key technologies enabling us to build more complex and intelligent systems. The editorial board hopes that New Generation Computing will work as a catalyst among active researchers with broad interests by ensuring a smooth publication process.

Areas covered in New Generation Computing include:

Learning: Foundations and Models of Learning, Computational Learning Theory, Grammatical Inference, Inductive Logic Programming, Statistical Learning Methods, Bayesian Networks, Reinforcement Learning

Data Mining: Frequent pattern mining, Stream Data Mining, Graph and Network mining, Relational Data Mining, Text and Web Mining, Statistical methods for Data Mining, Machine learning methods for Data Mining, Visualization methods for Data Mining

Cognitive Computing: Modeling Human Knowledge, Modeling Human Problem Solving and Learning, Semantic Computing, Modeling and Analyzing Decision Making, Cognitive Architecture, Artificial General Intelligence, Human Level AI.

Programming and Semantics: Foundations and Models of Computation, Computational Logic, Programming Systems, Declarative Programming, Concurrency and Parallelism, Quantum Computing.

Control Theory of Bio- and Nano-systems: Formal Models of Molecular Systems, Computation by Token-based Systems, Non-Boolean Representations of Signals in Nature, Cellular Automata Based on Mechanisms Found in Nature.

Impact Factor: 0.722 (2017), Journal Citation Reports®

On the homepage of New Generation Computing at springer.com you can

- Sign up for our Table of Contents Alerts
- Get to know the complete Editorial Board
- Find submission information

