

Special Issue of the Soft Computing Journal

(Editor-in-Chief: Antonio D. Nola)

on Bio-inspired computing for Hybrid Information Technology



Recently biologically inspired, converged and hybrid information technologies are becoming of significant interest due to their capabilities in handling many real world complex problems, involving imprecision, uncertainty and vagueness, high-dimensionality. This special issue is committed to capture the state-of-the-art and recent advances on various aspects of biologically inspired computing for hybrid information technology. It aims to bring together the researchers from academia and industry as well as practitioners to share ideas, problems and solutions relating to the multifaceted aspects of information technology, especially focused bio-inspired computing. Original articles describing algorithms, protocols, performance evaluations, and case studies on the bio-inspired hybrid information technologies are solicited for this special issue. :

- Bio-inspired information and communication systems
- Bio-inspired networking for pervasive computing environments
- Bio-inspired mathematical models, methods and tools
- Bio-inspired network and communication algorithms and protocols
- Biologically inspired fault-tolerant communication systems
- Cluster and grid implementation of bio-inspired networks.
- Self-organizing, self-learning, self-healing network architectures
- Novel applications and services inspired by biological systems
- Scalable and adaptive network architectures
- Performance evaluation of bio-inspired networks
- Bio-inspired mechanisms for network and information security
- Bio-inspired intrusion-tolerant systems
- Biologically inspired and cognitive strategies for cyber defense
- Bio-inspired service evolution and optimization
- Topology control and network organization for bio-inspired networks
- Bio-inspired localization, synchronization, mobility approaches
- Nano-scale and molecular computing and communications
- Case studies of biologically inspired networks.

Important Dates

Full manuscript due: July 31, 2010
Acceptance Notification: October 31, 2010
Final manuscript due: January 15, 2011
Publication date: Second Quarter of 2011 (Tentative)

Submission Guidelines

While preparing a manuscript, please refer to the "Instruction For Authors" as provided in the Soft computing Journal website: <http://www.springer.com/engineering/journal/500>. Authors are requested to submit their papers electronically to guest editors in the subject line, include the journal title (SC-SI). All papers will be rigorously reviewed based on originality, high scientific quality, organization & relevance to this special issue. Each paper will be reviewed by at least three reviewers.

Extended and revised versions of the best papers presented at the FutureTech-2010 <www.ftreg.org/futuretech2010/> sought to be considered for this special issue. The extended version of the paper must have at least 50% new, original material in comparison with conference submission. Besides, high-quality original unpublished research articles, not currently under review to another journal or conference are also invited for this special issue.

For further questions or inquiries, communicate with the Guest Editors.

Guest Editors

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