

*International Journal of*

# AUTONOMOUS and Adaptive COMMUNICATIONS SYSTEMS

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# Scope of the Journal

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*IJAACS addresses foundational, engineering and technological aspects of communications systems exhibiting emergent/adaptive behaviour, based on sound theoretical models such as bio-inspired, natural computing, game theory and economic models. IJAACS spans complexity, self-adaptation, autonomic communication, ambient intelligence, multi-agent systems. Many current communication systems/infrastructures are decentralised, pervasive and composed of a large number of autonomous entities, with adaptation a key feature of the system's behaviour. Such systems also involve a social dimension, characteristics similar to those in self-organising systems seen in nature.*



## Topics covered include:

- Computer networks, internet computing
- Multi-agent systems, self-organising ad hoc and sensor networks
- Autonomic communication systems, AC approaches in enterprise environments
- Security, trust and survivability
- Ambient intelligence (Aml), adaptive nanomachines/nanorobotics
- Pervasive, ubiquitous, mobile and wireless communication networks
- Web services, multimedia networking
- Emergent behaviour in grid and peer-to-peer communication systems
- Swarm intelligence and ant-based algorithms
- Bio-inspired computing
- Computational intelligence: evolutionary algorithms, neural networks, fuzzy/chaotic systems
- Natural computing (molecular computing and quantum computing)
- Smart materials and emergent behaviour, nonlinear dynamical systems
- Game theory and economic models
- Applications in biological, molecular, chemical and social networks

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