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Computer Science & Electrical Engineering

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About the Section "Computer Science & Electrical Engineering"

This section aims to collect relevant scientific contributions in the broad field of Information and Communication Technologies (ICT), with specific focus on Computer Science and Electronic Engineering. The focus of papers published in this section will be on applied research within these topics, but theoretical works are also welcome, if related to possible applications. More specifically, papers dealing with the acquisition, processing, storage and transmission of information, electrical devices (sensors, actuators, etc.) and electronic equipment are within the scope of this section. This section aims to provide a forum for research from both academia and industry, and will be the perfect journal to disseminate your results to a global community of researchers.

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Computer Science: Database, Information Systems & Security

- Databases and Data Warehouses
- Cloud Databases
- Distributed Databases
- Information and Knowledge Engineering
- Information Retrieval Systems
- Data Mining Techniques
- Data Security, Privacy and Cryptology
- Web-Based Design and Development
- Decision Support Systems
- Expert Systems and Business Intelligence
- Big Data and Big Data Analytics

Computer Science: Computer Vision, Machine Learning & Pattern Recognition

- Deep Learning Applications
- Artificial Intelligence Applications
- Video Surveillance and Related Applications
- Machine Vision for Industry 4.0
- Mobile and Robot Vision, including Autonomous Guidance Applications
- Image Retrieval and Visual Search
- Human Computer Interaction and Graphics
- Image and Video Communications
- Bio-edical and Medical imaging
- Remote Sensing

Emerging Techniques & Applications

- Internet of Things and Sensor Networks
- Generative Adversial Networks
- Web-scale Retrieval of Information
- Innovative Technologies and Services for Smart Cities and Smart Grids
- Cyber-Physical Systems
- ICT Systems for Cultural Heritage
- Quantum Computing and Architectures
- 5G Networks Applications
- Metamaterials

Computer Science: Audio, Speech & Music Processing

- Speech and Audio Technology and Applications
- Speech Analysis, Synthesis, Coding, Recognition, Speaker Verification, language Modeling and Recognition, Human Speech Production and Perception, Speech Enhancement
- Speech and Audio Separation, Computational Auditory Scene Analysis and Independent Component Analysis
- Music Signal Analysis, Synthesis and Information Retrieval

Computer Science: Multi-Agent Systems & Pervasive Computing

- Autonomic Computing and Communication
- Multi-Agent Systems
- Agile Software Systems
- Engineered Self-Organization and Self-Organizing Computing Systems
- Swarms and Swarm Intelligence
- Pervasive and Mobile Computing
- Sensor Networks
- P2P and Cloud Computing
- Web and Participatory Systems
- Self-* Properties and Adaptive Algorithms
- Operating Systems and Middleware for Autonomous and Adaptive Systems
- Social Sensing and Social Analysis

Electrical & Electronic Engineering: Power Systems

- Components, Systems, and Processes for Solid-State Energy Conversion
- Applications in Energy Conservation and Efficiency
- Energy Harvesting

SECTION Computer Science & Electrical Engineering