

# CALL FOR PAPERS

for Special Issue on

## “Cognitive Perspective and Emerging Aspect of Evolutionary Intelligence: Theory, Applications and Practices”

### Aim and Scope:

Evolution refers to optimization process to improve the ability of an organism to survive in dynamically changing and competitive environments and intelligence refers to the ability to acquire and apply knowledge and skills. Therefore, evolutionary intelligence provides a way to acquire the knowledge then apply that knowledge and skills to solve any complex real world problems in an optimized manner. Evolutionary Intelligence is a powerful methodology for a variety and wide range of data analysis problems such as industrial, financial forecasting, scientific, and social media applications. The recent advances in this area have shown its commitments in terms of results in industry, business, sciences and social media studies. Evolutionary Intelligence comprised of many techniques and approaches such as rule-based systems, artificial neural networks, fuzzy systems, genetic algorithm, bayesian and statistical approaches, artificial immune systems, hybrid systems, expert systems swarm Intelligence, etc.

The aim of this special issue is to provide a premier international platform for wide range of professions including scholars, researchers, academicians and Industry people to discuss and present the most recent advancement in the field of evolutionary intelligence from the perspective of providing machine intelligence awareness and its best practices for the real world. In this special issue, we invite researchers to contribute high-quality original articles as well as review articles that will help to understand the concept, its advanced techniques to solve any problem and also the computation manner. Papers describing applications in the areas such as data mining, adaptive control, medical and bio-informatics, games and multi-media, agent-based computing and modelling, complex systems, and chemical and biological systems are also welcomed.

### Topics of Interest:

The topics relevant to this special issue include but are not limited to:

- Intelligence-based approaches
- Model optimization and tuning
- Evolutionary intelligence solutions
- Evolutionary intelligence in mobile-cloud based computing for social network
- Big data analytics for community activity prediction, management, and decision-making
- Neural Network and Fuzzy system theory
- Social data analytical approaches using computational methods
- Deep learning and machine learning algorithms for efficient indexing and retrieval in multimedia
- Intelligent techniques for smart surveillance and security
- Modeling, data mining, and public opinion analysis based on social big data
- Crowd computing-assisted access control and digital rights management
- Evolutionary algorithms for data analysis and recommendations
- Crowd intelligence and computing paradigms for sentimental analysis and recommendation
- Applied soft computing for content security, vulnerability and forensics
- Computational intelligence in multimedia computing and context-aware recommendation

- Scalable, incremental learning and understanding of big data with its real-world applications for visualization, HCI, and virtual reality community
- Crowd intelligence-assisted ubiquitous, personal, and mobile social media applications
- Systems for crowd sourcing and privacy preserving crowd sourcing
- Crowd sourcing - crowd sensing and its applications for trust evaluation
- Artificial intelligence and pattern recognition technologies in healthcare
- Deep learning and computational intelligence based medical data analysis for smart healthcare services
- Intelligent System Architectures

## Submission Instructions:

Before submission authors should carefully read over the Instructions for Authors, which are located at <http://www.springer.com/journal/12065/>

Prospective authors should submit an electronic copy of their complete manuscript through the Springer submission system at

<https://www.editorialmanager.com/evin/default.aspx>

Please select the special issue “**Cognitive & Emerging Trends in EVIN**” for your submission. All submissions will undergo initial screening by the guest editors for fit to the theme of the Special Issue and prospects for successfully negotiating the review process.

## Important Dates:

Submission of manuscripts: **October 30, 2018**

Review Notification to authors: **December 15, 2018**

Submission of Revised Papers: **January 30, 2019**

Notification of Final Review Results: **March 01, 2019**

## Guest Editors:

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