Twelfth International Conference on Advanced Computational Intelligence

March 14 - 16, 2020   Dali, Yunnan, China

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icaci@cs.cityu.edu.hk

Call for Papers

https://conference.cs.cityu.edu.hk/icaci/
Sponsors and Organizers: Dali University and City University of Hong Kong
Technical Co-sponsor: IEEE Systems, Man and Cybernetics Society

The 12th International Conference on Advanced Computational Intelligence (ICACI2020) will be held in Dali, Yunnan, China during March 14-16, 2020, following the successes of previous events. Situated between Cangshan Mountain and Erhai Lake in southwestern China, in the site of ancient Nanzhao Kingdom (738-937AD) and Dali Kingdom (937-1253AD) as an entry in the tentative list of UNESCO World Heritages, Dali is a multicultural city and an autonomous prefecture with many ethnic minorities living there for thousands of years. ICACI2020 aims to provide a high-level international forum for scientists, engineers, and educators to present the state of the art of research and applications in related fields. The conference will feature plenary speeches given by world renowned scholars, regular sessions with broad coverage, and special sessions focusing on popular topics.

Call for Papers and Special Sessions

Prospective authors are invited to contribute high-quality papers to ICACI2020. In addition, proposals for special sessions within the technical scopes of the symposium are solicited. Special sessions, to be organized by internationally recognized experts, aim to bring together researchers in special focused topics. Papers submitted for special sessions are to be peer-reviewed with the same criteria used for the contributed papers. Researchers interested in organizing special sessions are invited to submit formal proposals to ICACI2020. A special session proposal should include the session title, a brief description of the scope and motivation, names, contact information and brief biographical information on the organizers.

Topic Areas: *Topics of contributing papers include, but are not limited to, the following areas:*

Neural networks: Computational neuroscience, connectionist theory, cognitive science, mathematical modeling of neural systems, neurodynamic analysis, neurodynamic optimization, adaptive dynamic programming, embedded neural systems, probabilistic and information-theoretic methods, principal and independent component analysis, hybrid intelligent systems, supervised learning, unsupervised learning, reinforcement learning, deep learning, brain imaging, neural information processing, neuroinformatics, bioinformatics, support vector machines and kernel methods, autonomous mental development, data mining, big data processing, pattern recognition, time series analysis, image and signal processing, robotic and control applications, telecommunications, transportation systems, intrusion detection and fault diagnosis, brain computer interface, neuro-engineering, neuromorphic hardware

Fuzzy systems: Fuzzy mathematics, fuzzy measure and integral, fuzzy logic, possibility theory, fuzzy clustering, fuzzy classification, fuzzy data analysis, fuzzy decision-making, fuzzy modeling, fuzzy control, type-2 fuzzy systems, computing with words, rough sets, granular computing, fuzzy neural networks, neuro-fuzzy systems, fuzzy system architecture or hardware

Evolutionary computation: Genetic algorithms, genetic programming, evolutionary strategy, swarm intelligence, particle swarm optimization, ant colony optimization, differential evolution, brain storm optimization, estimation of distribution algorithms, other meta-heuristics, evolutionary multi-objective optimization, evolutionary scheduling, data-driven evolutionary computation, large-scale optimization, parallel and distributed evolutionary computation, evolutionary computation for bi-level optimization, multi-tasking evolutionary computation, evolutionary computation under uncertainty, dynamic evolutionary algorithms, real world applications of evolutionary algorithms

Paper Submission

Authors are invited to submit full-length papers (8 pages maximum) by the submission deadline through the online submission system. Potential organizers are also invited to enlist five or more papers with cohesive topics to form special sessions. The submission of a paper implies that the paper is original and has not been submitted under review or is not copyright-protected elsewhere and will be presented by an author if accepted. All submitted papers will be refereed by experts in the field based on the criteria of originality, significance, quality, and clarity. The authors of accepted papers will have an opportunity to revise their papers and take consideration of the referees' comments and suggestions. The Proceedings has been contracted to be included in IEEExplore Digital Library and submitted for EI indexing.

Important Dates

Special session proposals deadline…………………………………………………………..…November 1, 2019
Paper submission deadline………………………………………………… ~~December 1, 2019~~ December 15, 2019
Notification of acceptance………………………………………………………………………January 1, 2020
Camera-ready copy and author registration……………………………………………………February 1, 2020