



IEEE World Congress on Computational Intelligence, Rio de Janeiro, 08 - 13 July 2018

IEEE Computational Intelligence Society (IEEE CIS) is the main professional society of the Institute of Electrical and Electronics Engineers (IEEE) devoted to research theory, design, application, and development of biologically and linguistically motivated computational paradigms emphasizing neural networks, connectionist systems, genetic algorithms, evolutionary programming, fuzzy systems, machine learning, artificial intelligence, deep learning, big data, data analytics, and hybrid intelligent systems in which these paradigms are contained. The society is accountable for most important conferences and journals in its scope, bringing together researchers from around the world to work together in the advancement of the computational intelligence area.

Bi-annually IEEE CIS organizes the IEEE World Congress on Computational Intelligence (WCCI), putting together the three flagship conferences organized by the society: the International Joint Conference on Neural Networks (IJCNN) covering a wide range of topics in the field of neural networks, from biological neural networks to artificial neural computation; the IEEE Congress on Evolutionary Computation (IEEE CEC) covering all topics in evolutionary computation from theory to real-world applications; and the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE) covering all topics in fuzzy systems from theory to real-world applications.

Following the example of past 9 WCCI editions like WCCI'2012 in Brisbane, WCCI'2014 in Beijing, and WCCI'2016 in Vancouver, WCCI'2018 in Rio de Janeiro will bring researchers and practitioners from all over the world to share their knowledge and current results of their studies to the scientific community. In the last edition, WCCI received 3015 paper submissions with 1781 papers accepted and more than 1800 participant registrations from over 70 countries. Besides the paper presentations, WCCI'2016 had 24 tutorials covering a diverse range of topics in computational intelligence area, 5 keynotes and 15 plenary speakers from invited top researchers, among other activities.

WCCI'2018 in Rio de Janeiro is an opportunity for companies to sponsor and/or exhibit their products, services and brand to a large audience of specialists in computational intelligence area.

Target Audience

Among 1500-2000 participants including, but not limited to, researchers of computational intelligence techniques like neural networks, connectionist systems, genetic algorithms, evolutionary programming, fuzzy systems, machine learning, artificial intelligence, deep learning, big data, data analytics, and hybrid intelligent systems in several applications domains like computer science, optimization problems, engineering, virtual assistants, automation, knowledge extraction, and more.

Date and Venue

WCCI'2018 will take place in Rio de Janeiro – one of the most attractive cities in South America, with the largest urban forest in the world, beautiful bays, lagoons and 90 kms of beaches and mountains. Known as one of the most beautiful cities in the World, Rio de Janeiro is the first city to receive the certificate of World Heritage for its Cultural Landscape. This unprecedented title was recently conferred by the United Nations Educational, Cultural and Scientific Organization (UNESCO). Some years ago Rio de Janeiro held some important events as the FIFA World Cup 2014 and Olympics Games 2016. See more in <http://visit.rio>.

The Windsor Convention & Expo Center will host WCCI'2018 activities. Located just steps from the beach in Barra da Tijuca, Windsor offers a complete structure to produce successful events. Besides the impressive Expo Center with capacity for 7000 people simultaneously, the complex also has around 1,300 apartments spread among the hotels: Windsor Barra Windsor Oceanico and Windsor Marapendi. More information in <http://windsorexpo.com.br/>.

WCCI'2018 will happen from 8th to 13th July, 2018.

Estimates

Expected participants in WCCI'2018: 1500-2000.

Expected training sessions: 70-90.

Expected keynotes and plenary sessions: 20-25.

Expected papers submission: 3000.

Expected papers presentations: 1600.

Preliminary Program

Currently WCCI2018 has confirmed some keynotes and plenaries with important researchers of computational intelligence field. See below:

- “Brain-machine interfaces: from basic science to neurological rehabilitation”, by Miguel Nicolelis;
- “Cyborg Intelligence: Towards the Convergence of Machine and Biological Intelligence”, by Zhaohui Wu;
- “Fuzzy (F-) transforms — the efficient tool for (even big) data preprocessing”, by Irina Perfilieva;
- “On decision and optimization models and their applications”, by José L. Verdegay;
- “Fuzzy Associative Memories: Theory and Applications”, by Marcos Valle;
- “Trusted Computational Intelligence”, by Hussein Abbass;
- “‘Memes’ as Building Blocks of Intelligence: From Refinement to Higher Order Representations in Transfer and Multitask Optimization”, by Ong Yew Soon.

Besides this list, others keynotes and plenaries are going to be confirmed. In addition to them, the event will have papers presentations, special sessions, workshops, competitions, and tutorials.

Why should you sponsor WCCI'2018?

- WCCI'2018 is a great opportunity to promote your brand for a wide audience of people, companies, and organizations with interest in computational intelligence domain;
- WCCI'2018 will provide you a forum for identifying partners with similar interests, which may leverage your business in a number of ways;
- WCCI'2018 is the best opportunity to show off your computational intelligence success stories and your leading-edge products powered by computational intelligence;
- WCCI'2018 is a great opportunity to share and discuss your practices around computational intelligence with highly experienced developers, improving your results and identifying new business opportunities;
- WCCI'2018 will gather together the computational intelligence specialists from all the world, bridging the gap between the search for nice job opportunities and demands for highly skilled researchers and engineers.

Terms and Conditions

1. Sponsorship application and acceptance are managed at the discretion of the organizing committee. The organizing committee retains the right to reject any sponsorship application.
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