The annual International Joint Conference on Neural Networks (IJCNN) will be held jointly with the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE) and the IEEE Congress on Evolutionary Computation (IEEE CEC) as part of the 2012 IEEE World Congress on Computational Intelligence (IEEE WCCI), June 10-15, 2012, Brisbane Convention & Exhibition Centre, Brisbane, Australia. Cross-fertilization of the three technical disciplines and newly emerging technologies is strongly encouraged.

### Call for Contributed Papers

The annual IJCNN is the premier international conference in the field of neural networks. It covers all topics in neural networks including, but is not limited to:

- Neural network theory & models
- Learning and adaptation
- Cognitive models
- Brain-machine interfaces
- Neural control
- Evolutionary neural systems
- Neurodynamics and complex systems
- Neuroinformatics
- Neural hardware
- Neural network applications
- Neuroengineering

- Computational neuroscience
- Pattern recognition
- Machine vision and image processing
- Collective intelligence
- Hybrid systems
- Self-aware systems
- Data mining
- Sensor networks and intelligent systems
- Applications
- Computational biology
- Bioinformatics

IJCNN 2012 will feature a world-class conference that aims to bring together researchers and practitioners in the field of neural networks and computational intelligence from all around the globe. Technical exchanges within the research community will encompass keynote lectures, special sessions, tutorials and workshops, panel discussions as well as poster presentations. In addition, participants will be treated to a series of social functions, receptions, and networking to establish new connections and foster everlasting friendship among fellow counterparts.

Prospective authors are invited to contribute high-quality papers to IJCNN 2012. All papers are to be submitted electronically through the IEEE WCCI 2012 website [http://www.ieee-wcci2012.org/](http://www.ieee-wcci2012.org/).

For IJCNN inquiries please contact Conference Chair: Cesare Alippi at cesare.alippi@polimi.it

For Program inquiries please contact Program Chair: Kate Smith-Miles at kate.smith-miles@sci.monash.edu.au

### Call for Special Sessions

The UCNN 2012 Program Committee solicits proposals for special sessions within the technical scopes of the Congress. Special sessions, to be organized by international 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. Proposals should include the session title, a brief description of the scope and motivation, biographic and contact information of the organizers. Researchers interested in organizing special sessions are invited to submit formal proposal to the Special Session Chair:

Brijesh Verma at b.verma@cqu.edu.au.

### Call for Tutorials

IJCNN 2012 will also feature pre-Congress tutorials, covering fundamental and advanced neural network topics. A tutorial proposal should include title, outline, expected enrollment, and presenter/organizer biography. We invite you to submit proposals to the Tutorial Chair:

Haibo He at he@ele.uri.edu

### Call for Competitions

IJCNN 2012 will host competitions to stimulate research in neural networks, promote fair evaluations, and attract students. The proposals for new competitions should include descriptions of the problems addressed, motivations, expected impact on neural networks and machine learning, and established baselines, schedules, anticipated number of participants, and a biography of the main team members. We invite you to submit proposals to the Competitions Chair:

Sung-Bae Cho at sbcho@yonsei.ac.kr

General Enquiries for IEEE WCCI 2012 should be sent to the General Chair:

Hussein Abbass at hussein.abbass@gmail.com

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**Sponsors**

- IEEE WCCI Sponsor
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  - IEEE Computational Intelligence Society (CIS)
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**IJCNN Organization Committee**

- Conference Chair: Cesare Alippi, Italy
- Program Chair: Kate Smith-Miles, Australia
- Technical Co-Chairs: Derong Liu, China, Pablo A.Estévez, Chile, Kay Chen Tan, Singapore, James Tin-Yau Kwok, Hong Kong, Ke Chen, UK, Robert Kozma, USA
- Neuroscience liaison: Ali Minal, USA
- Special Sessions Chair: Brijesh Verma, Australia
- Tutorial Chair: Haibo He, USA
- Competitions Chair: Sung-Bae Cho, Korea

**Important Dates**

- Competition proposals submission deadline: October 17, 2011
- Special sessions proposal submission deadline: November 21, 2011
- Special session decision notification: November 28, 2011
- Paper submission deadline: December 19, 2011
- Tutorial and Workshop proposal submission deadline: January 16, 2012
- Tutorial and Workshop decision notification: January 30, 2012
- Paper acceptance notification date: February 20, 2012
- Final paper submission deadline: April 2, 2012
- Early registration: April 2, 2012
- Conference dates: June 10-15, 2012