

2006 IEEE WORLD CONGRESS ON COMPUTATIONAL INTELLIGENCE

(www.wcci2006.org) or mirror site at (compsys.ia.ac.cn/~wcci2006/)

Sponsored by the IEEE Computational Intelligence Society, and co-sponsored by the International Neural Networks Society, the IEE, and the Evolutionary Programming Society, the 2006 IEEE World Congress on Computational Intelligence (WCCI 2006) will be held in Vancouver, British Columbia,

Canada
from

July 16-21, 2006

. The WCCI is the best-known academic Olympic event in the computational intelligence community.

Comprised of three premier international events, the International Joint Conference on Neural Networks (IJCNN), the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE), and the IEEE Congress on Evolutionary Computation (CEC),

WCCI 2006 will provide a venue to foster technical exchange, renew everlasting friendships, and establish new connections. The Congress will bring together researchers and practitioners in the areas of theory, design, implementation, and applications of computational intelligence. The Congress will feature world-renowned plenary and invited lectures, state-of-the-art special sessions, themed tutorial workshops, moderated panel discussions, regular technical sessions, poster interactions, and last but not least, exciting social functions and an awards banquet. One registration fee provides unlimited access to all technical sessions and all proceedings.

Call for Contributed Papers

The annual International Joint Conference on Neural Networks (IJCNN 2006) solicits papers from all topics in neural networks, including, but not limited to:

- supervised, unsupervised & reinforcement learning,
- neuroinformatics,
- computational neuroscience,
- neural dynamics & complex systems,
- connectionist cognitive science,
- neural optimization & dynamic programming,
- kernel methods,
- graphic models,

- embedded neural systems,
- autonomous mental development,
- neural control & cognitive robotics,
- hybrid intelligent systems,
- data analysis & pattern recognition,
- image & signal processing,
- hardware implementation, and
- real-world applications.

The annual IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2006) solicits papers from all topics in fuzzy systems, including, but not limited to:

- fuzzy logics & fuzzy set theory,
- fuzzy-neuro-evolutionary hybrids,
- fuzzy optimization & design,
- fuzzy system architectures & hardware,
- fuzzy pattern recognition & image processing,
- fuzzy control & robotics,
- fuzzy data mining & forecasting,
- fuzzy information retrieval,
- fuzzy human interface,
- fuzzy internet & multimedia,
- fuzzy computing with words,
- granular computing, and
- real-world applications.

The annual IEEE Congress on Evolutionary Computation (CEC 2006) solicits papers from all topics in evolutionary computation, including, but not limited to:

- theory of evolutionary computation,
- representation and operators,
- combinatorial & numerical optimization,
- coevolution & collective behavior,
- multiobjective evolutionary algorithms,
- evolutionary design,
- evolvable hardware,
- evolvable software,
- evolving neural networks & fuzzy systems,
- evolving learning systems,
- evolutionary intelligent agents,

- developmental systems,
- molecular & quantum computing,
- bioinformatics & bioengineering,
- ant colonies & immune systems,
- particle swarm & differential evolution, and
- real-world applications.

Cross-fertilization of the three technical disciplines and newly emerging technologies is strongly encouraged. All papers are to be submitted electronically through the Congress website. Look for more details at

<http://www.wcci2006.org>

For general inquiries, please contact General Chair Gary Yen at gyen@okstate.edu. For program inquiries, contact IJCNN Program Chair Lipo Wang at elpwang@ntu.edu.sg, FUZZ-IEEE Program Chair Piero Bonissone at bonissone@research.ge.com, or CEC Program Chair Simon M. Lucas at sml@essex.ac.uk.

Call for Special Sessions

IJCNN/FUZZ-IEEE/CEC Program Committees also solicits proposals for special sessions within the technical scopes of the three conferences. Special sessions are organized by internationally recognized experts and aimed to bring together researchers in a focused topic. Special sessions have become both a tradition and an important component of each conference.

Papers submitted for special sessions are to be peer-reviewed with the same criteria used for the contributed papers. Researchers interested in organizing a special session are invited to submit a formal proposal to IJCNN Special Sessions Chair Jun Wang at jwang@acae.cuhk.edu.hk, FUZZ-IEEE Special

Sessions Chair Tsu-Tian Lee at

president@ntut.edu.tw

, or CEC Special Sessions Chair Carlos A. Coello Coello at

ccoello@cs.cinvestav.mx

. Special session proposals should include the session title, a brief description of the scope and motivation, and the organizers' names, contact information, and brief CVs.

Call for Tutorials

WCCI 2006 will feature a number of pre-congress tutorials covering fundamental and advanced computational intelligence topics. Tutorial proposals, submitted to Tutorials Chair via emails, are solicited and should include the title, outline, expected enrollment, and the presenter's biography. Any inquires regarding the tutorials should address to Tutorial Chair DeLiang Wang at dwang@cse.ohio-state.edu.

Important Due Dates:

(please note no extension on paper submission deadline will be honored.)

Special Session Proposal: *December 31, 2005*

Paper Submission: *January 31, 2006*

Tutorial Proposal: *January 31, 2006*

Decision Notification: *March 15, 2006*

Camera-Ready Submission: *April 15, 2006*

See you in Vancouver!

Gary G. Yen, General Chair, WCCI 2006

gyen@okstate.edu