

Call for Papers

2009 INTERNATIONAL JOINT CONFERENCE
ON NEURAL NETWORKS – IJCNN2009
Westin Peachtree Hotel, Atlanta, June 14-19, 2009

<http://www.ijcnn2009.com>

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The Century of Brain Computation – Neural Network Alliances with Cognitive Computing and Intelligent Machine Embodiments

Plenary Speakers:

Gail Carpenter (Boston U), Leon O Chua (UC Berkeley), Robert Desimone (MIT)
Eugene Izhikevich (Neuroscience Institute, San Diego), Edgar Koerner (Honda Research,
Offenbach), John Taylor (King's College, UK), Bernard Widrow (Stanford)

IJCNN is the premier international conference in the area of neural networks theory, analysis and applications. Topics of interest include but are not restricted to:

- Connectionist methods in cognitive science and cognitive modeling (language, reasoning, perception, learning, consciousness, emotion, etc.)
- Computational neuroscience
- Neuro-technologies and neuro-engineering, brain-machine interfaces
- Cognitive robotics, developmental robotics and neural robotics
- Data mining and pattern recognition
- Signal processing and time series analysis
- Image processing and machine vision
- Neurocontrol
- Neuroinformatics and bioinformatics
- Hybrid neural-symbolic, neuro-fuzzy, neuro-evolutionary systems, neuro-swarm, neural dynamic logic and other methods
- Connectionist methods of emergent intelligence
- Bayesian models and statistical machine learning methods
- Support vector machines and Kernel methods
- Learning methods: supervised, unsupervised and reinforcement
- Adaptive dynamic programming and neuro-dynamic optimization
- Neural dynamics, complex systems, and chaos
- Hardware implementations of neural networks, neuromorphic engineering
- Intelligent tools and methods (expert systems, embedded systems, data mining, multi-agent systems)
- Real world applications of neural networks (games, finance, social systems, biomedical, power systems, telecommunication, defense, manufacturing)

IJCNN 2009 will feature invited plenary talks by world-renowned invited speakers, a variety of special sessions and panel discussions aligned with the conference theme, pre-conference tutorials, post-conference workshops, as well as regular technical sessions, poster sessions, social functions.

Prospective authors are invited to submit complete papers of no more than eight (8) pages in IEEE two-column conference proceedings format. Authors should submit their papers in PDF through the online submission system, which will be available through the website:

<http://www.ijcnn2009.com>

Important Dates and Deadlines:

Special Session and Tutorial Proposals – October 15, 2008
Paper Submissions – December 15, 2008
Paper Acceptance Notifications – January 30, 2009
Camera-ready Paper Submissions – March 10, 2009

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