

Second Call for Papers

EANN 2009 - <http://www.uel.ac.uk/eann2009/>

The 11th International Conference on Engineering Applications of Neural Networks

Authors are invited to submit original, English-language research contributions not concurrently submitted elsewhere (<http://www.uel.ac.uk/eann2009/submissions.htm>). **Long papers** should be between 8 and 12 pages, formatted in Springer's single column format (detailed instructions for submissions to follow). **Short papers** should be between 5 and 7 pages. Theoretical results are very welcome, but in the spirit of previous EANN conferences, the paper should focus on the application of neural networks or related methods rather than just the algorithm or theory.

Submitted papers will be refereed by at least three reviewers for quality, correctness, originality, and relevance. Notification and reviews will be communicated via email. Authors of the best papers will be invited to extend their papers for inclusion in a special issue of the **Springer journal, Neural Computing and Applications**.

All accepted conference papers will be presented at the conference and included in the published proceedings by Springer's **CCIS (Communications in Computer and Information Science) Series**, www.springer.com/series/7899. Please follow the instructions on Springer's LNCS webpage www.springer.com/lncs when formatting to ensure that your paper is included in the proceedings.

Proposals for **special sessions** that examine emerging, innovative, or otherwise provocative issues within the conference area are also encouraged. Session proposals should include a 1-2 page summary of the topic and the names and affiliations of 2-3 panellists who have made a commitment to participate. Both industry and academic session panel members are very welcome.

Proposals for 90-minute **tutorials** are also invited on relevant topics. Tutorial proposals less than 5 pages long are invited that identify the intended audience and give enough information to give a sense of what will be covered.

As part of the conference there will be a **Special Session on Soft Computing in Medical Informatics**. Medical informatics can be defined as the application of computer science, information science and data analysis to clinical decision making. The aim of this special session is to bring together some of the latest developments resulting from the application of soft computing techniques to medical informatics, as defined above. By "soft computing", we mean computing techniques that tolerate systems and environments involving imprecision, uncertainty or approximation. These methods include machine learning, probabilistic reasoning, evolutionary computation, fuzzy systems and optimisation. Submitted papers for the special session must not exceed 10 pages and must conform to Springer's LNCS format using either LaTeX (preferred) or Microsoft Word.

A fully electronic **review** process is in place. **Abstracts** for technical papers, panel and tutorial proposals should be submitted electronically (in pdf, postscript or MS Word) by the **3rd of April 2009** (in order to get a paper id and a password). Panel and tutorial proposals should be sent by email to the general chair. Full papers must be submitted to the review system by **21st of April 2009**. Notification of acceptance and reviewers comments will be sent by **21st of May 2009**. The camera-ready papers must be submitted by **4th of June 2009**. Registration fees must be received by the **4th June 2009** to guarantee inclusion of accepted papers.

Please email the general chair Prof Dominic Palmer-Brown eann2009@uel.ac.uk if you are interested in chairing special sessions, or serving on the programme committee.

Abstracts and papers may be submitted at <http://www.uel.ac.uk/eann2009/submissions.htm>.

If you have any questions related to the submission process please email Dr Chrisina Draganova c.draganova@uel.ac.uk.

Suggested topics for the conference include, but are not limited to, the following:

Neural Computing and Related Methods:

- Learning theory:
- Evolutionary architectures:
- Support vectors machines
- Supervised Learning
- Unsupervised Learning
- Reinforcement Learning
- Self-Organising systems
- Adaptive architecture
- Fuzzy logic and systems
- Hybrid system
- Hardware development
- Low cost architectures

Research areas:

- Data mining
- Computer vision
- Pattern Recognition
- Colour, Motion analysis
- Signal Processing
- Fusion
- Telecommunications
- Robotics
- Intelligent Transportation Systems
- Financial Forecasting
- Time Series Analysis
- Adaptive Control
- Modelling and identification
- Prediction
- Process Monitoring and Diagnosis

Applications:

- Engineering Applications
- Biomedical Engineering
- Environmental Data Analysis
- Decision Making Systems

- Manufacturing Engineering
- Computer science
- Thermal Engineering
- Financial Engineering
- E-learning
- Virtual Learning Environments
- Intelligent Tutoring systems
- Olympic Applications
- Computer Forensics
- Cryptography