

# 10th INTERNATIONAL CONFERENCE ON ENGINEERING APPLICATIONS OF NEURAL NETWORKS (EANN'2007)

Thessaloniki, Greece

29-31 August 2007

<http://delab.csd.auth.gr/eann2007>



## AIMS AND SCOPE

Since the first conference in 1995, the EANN conferences provide a great discussion forum on engineering applications of neural networks and artificial intelligence technologies. The conference endeavours to promote more particularly the use of neural networks where significant benefits can be derived from their use. The conference is not only for reporting advances in neural network techniques, but also for showing that neural networks provide practical solutions in technical applications. Novel, innovative applications are appreciated. Each time, about 80 engineers and researchers are invited to present a selection of papers. Papers are mainly presented orally and not more than 2 sessions are simultaneously held in order to offer a real discussion forum between all the participants. All the engineering fields are welcome and some special sessions, dedicated to these different fields, are organized. Both theoretical and practical works should be submitted, but the authors are encouraged to focus their paper on the presentation of an application with real data experiments.

## TOPICS

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

### Neural networks techniques :

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

### Research areas :

- Computer vision
- Pattern Recognition

- Colour, Motion analysis
- Signal Processing
- Fusion
- Telecommunications
- Robotics
- Intelligent Transportation Systems
- Financial Forecasting
- Time Series Analysis
- Data mining
- Adaptive Control
- Modelling and identification
- Prediction

- Process Monitoring and Diagnosis

### Engineering Applications :

- Civil Engineering Applications
- Biomedical Engineering Applications
- Decision Making Applications
- Manufacturing Engineering Applications
- Computer science
- Thermal Engineering
- Financial Engineering
- General Engineering Applications

## INFORMATION FOR AUTHORS

Authors are invited to submit electronically original, English-language research contributions or experience reports not concurrently submitted elsewhere. Papers should be no longer than 15 pages, 1.5 spaced, in no smaller than 10 point font with 1 inch margins (left, right, top, bottom.) The program committee may reject papers that exceed this length on the grounds of length alone. In the spirit of the previous EANN conferences, the paper should concentrate on the application rather than just the algorithm or the 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. Accepted papers will be presented at the conference and included in the proceedings, which will be published by EANN and they will be available on site. It is important though to follow the instructions in this page to ensure that your paper will be included in the proceedings.

Proposals for panels that examine emerging, innovative, or otherwise provocative issues within the conference area are encouraged as well. Panel proposals should include a 1-2 page summary of the topic and the names and affiliations of 3-4 panelists who have made a commitment to participate. A mix of industry and academic panel members is recommended.

Proposals for 90-minute tutorials are also invited on topics within the conference area. Tutorial proposals must be at most 5 pages, they must identify the intended audience, and they must give enough material to provide a sense of what will be covered.

A fully electronic review process is being planned. Technical papers, panel and tutorial proposals should be submitted electronically by the 2<sup>nd</sup> of April 2007. In particular, before submitting a paper (in *pdf*, *postscript* or *MS Word*), an author should submit an abstract by the 2<sup>nd</sup> of April 2007 (in order to get a paper id and a password), whereas panel and tutorial proposals should be sent by email to the PC chair. A paper may not be included in the proceedings if the requirements are not met, or if the registration fee is not received by the deadline of the submission of the camera-ready (18<sup>th</sup> of June 2007).

A number of selected papers (after peer review) will be published in a special issue of the Journal INFORMATION SCIENCES (Informatics and computer Science Intelligent Systems Applications) or the Journal NEUROCOMPUTING, both by Elsevier Science. In addition, presented papers will appear in the digital library CEUR (upon negotiation).

Participants of EANN'2007 can combine their visit and attend/participate IEEE International Workshop on Machine Learning for Signal Processing (<http://mlsp2007.conwiz.dk>).

## TIMETABLE

Abstract submission deadline:	April 2, 2007
Paper submission deadline:	April 2, 2007
Panel/tutorial proposal deadline:	April 2, 2007
Notification of acceptance:	May 14, 2007
Camera-ready copy due:	June 18, 2007
Conference dates:	August 29-31, 2007

## CONFERENCE ORGANISATION

**General Chair:** Konstantinos Margaritis, University of Macedonia, kmarg@uom.gr

**Program Committee Chair:** Lazaros Iliadis, Democritus University of Thrace, liliadis@fmenr.duth.gr

### Program Committee

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**Organizing Chair:** Yannis Manolopoulos, Aristotle University of Thessaloniki, manolopo@csd.auth.gr

### Organising Committee






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## CONFERENCE VENUE

EANN'2007 will be hosted by the *Capsis Hotel* Conference Centre <http://www.capsishotel.gr/> which is located in the city of Thessaloniki the capital of Macedonia region in northern Greece. Access to Thessaloniki is very easy, by means of the frequent flights (40 minutes from Athens airport) and also by bus and Intercity trains from Athens. (Trip duration is 4.5 hours by the Intercity train and 5.5 hours by bus). Direct flights from many European capitals are available.

Thessaloniki is the second largest city of Greece and it has a population of 1000000 people. Its landmark is the White Tower, and there are many important sites within easy reach. Apart from being known as a cosmopolitan and commercial center, it is also known for its exceptional nightlife with the famous Ladadika quarter. The music scene in the city is vibrant and diverse and includes nightclubs, dance halls, discos, cafés and music bars, jazz clubs and clubs, and a wealth of live performances, both musical and theatrical. Thessaloniki is also known for its very interesting Byzantine and Archaeological museums. In half an hour distance from Thessaloniki one can visit the Archaeological site of Vergina (the old capital of ancient Makedonia) and where is the venue of Phillip's tomb (the father of Alexander the great) a site full of remarkable treasures of art and culture. Also in a distance of 70 km from Thessaloniki (45 minutes by car) one can visit mount Olympus (the mountain of the ancient Gods) where "Dion" the holly city of ancient Makedonia is located. It is, after all, the cultural capital of northern Greece!

## ORGANIZERS

				
University of Macedonia, Thessaloniki	Aristotle University of Thessaloniki	Democritus University of Thrace	Alexander TEI of Thessaloniki	Kingston-upon Thames University