



# MIWAI 2012

Ho Chi Minh City, Vietnam, December 26-28, 2012

Website: <http://khamreang.msu.ac.th/miwai12>



## Theme: "AI for Climate Change"

*"...it is the major, overriding environmental issue of our time, and the single greatest challenge facing environmental regulators. It is a growing crisis with economic, health and safety, food production, security, and other dimensions."*

Ban Ki-Moon  
UN Secretary General

In the last several years, we have witnessed all kinds of changes in the world's climate. These changes have affected our lives profoundly. The catastrophic flood in Thailand in 2011, for example, was one of the worst in that country's and the world's history. There were 12.8 million affected people, hundreds of thousands lived their lives under water for more than a quarter of the year, while many others were homeless. The flood also struck Thailand's economy heavily. Most of the industrial estates in central Thailand were under water, and, as a consequence, hundreds of thousands of jobs were floated away. The World Bank estimated that the economic loss was 1.44 trillion Baht—more than half of the country's annual budget. Of course, Thailand is not the only victim of this kind of catastrophe. It is just a recent proof of how much climate change can damage this world - and particularly developing countries - as a whole.

Dealing with climate change is an extremely challenging task, involving several relevant issues. Scientists in related areas—environmental science and geo-informatics, for example—have been working hard on this problem for years. The highly complex character of climatic phenomena requires extreme computational power to model, understand and, hopefully, prevent its catastrophic consequences. This has laid down an immense challenge to the AI community: how AI, as an underpinning technology, can promptly respond to help leverage the full computational power to deal with the problem.

Thus, MIWAI-2012 invites papers on advances in AI techniques and related fields, e.g., GIS, neural networks, decision trees, genetic algorithms, fuzzy logic, etc., for climate change. Of course, papers in other areas of AI are also welcome as usual. We do hope that the works presented in the workshop will not only provide observation and recommendations, but also help the community to bestow better problem solvers in the area at the same time.

## About MIWAI

The MIWAI series of workshops aims to be a meeting place where excellence in AI research meets the needs for solving dynamic and complex problems in the real world. Through the workshops, the academic researchers, developers, and industrial practitioners will have extensive opportunities to present their original work, technological advances and practical problems. Participants can learn from each other and exchange their experiences in order to fine tune their activities to help each other better. The main purposes of the workshops are as follows:

- To provide a meeting place for AI researchers and practitioners.
- to raise the standards of practice of AI research via the presence of outstanding international invited speakers and feedback from an internationally renowned program committee.



## Important Dates

**Papers due:** August 6, 2012  
**Author notification:** September 23, 2012  
**Camera-ready due:** October 7, 2012  
**Tutorial day:** December 26, 2012  
**Workshop dates:** December 27-28, 2012

## Proceedings Index



MIWAI 2012 proceedings will be published in the LNAI series.

## Call For Papers

Artificial intelligence is a broad area of research. We encourage researchers to submit papers in the following areas but not limited to:

- Agent-based simulation
- Agent-oriented software engineering
- Agents and Web services
- Agent-based electronic commerce, auctions and markets
- AI-GIS
- AI-GIS for climate change
- AI-GIS in urban and industrial development planning and management
- AI-GIS and sustainable
- AI in video games
- Computer vision
- Constraint satisfaction
- Data mining
- Decision theory
- Decision trees
- Distributed AI
- E-Commerce and AI
- Fuzzy logic
- Game theory
- Genetic Algorithms
- Internet/WWW intelligence
- Industrial applications of AI
- Intelligent tutoring
- Knowledge representation and reasoning
- Machine learning
- Multiagent planning and learning
- Multiagent systems and their applications
- Multiagent systems and evolving intelligence
- Natural language processing
- Neural networks
- Planning and scheduling
- Robotics
- Uncertainty in AI
- Web services

## Submission Requirements

Submissions of the following categories are invited:

### Category A: Regular papers

Papers presenting new original work. Submitted papers should not exceed a length of 12 pages in the Springer LNAI format style. Regular papers will be reviewed on overall quality and relevance. Reviewing of category A papers will be double-blind. In order to make blind reviewing possible, the authors should follow that:

- The authors' names and institutions should not appear in the paper. Unpublished work of the authors should not be cited.
- Using "we" or "us" in reviews of literature should be avoided, e.g., "In [1] we have proposed..." should be changed to "In [1] the authors have proposed..."
- The program committee will evaluate Category A papers as either "rejected" or "accepted as long paper" or "accepted as short paper". All accepted category A papers (long and short) will be fully published in the proceedings.

The authors can submit their papers via this link:  
<https://www.easychair.org/account/signin.cgi?conf=miwai2012>

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