2011 IEEE International Conference on Fuzzy Systems

Grand Hyatt Taipei
Taipei, Taiwan
June 27-June 30, 2011

FUZZ-IEEE 2011

Honorary Co-Chairs
Chung-Yu Wu, Taiwan
Hsiu-Shuang Huang, Taiwan
Ming-Chiao Lai, Taiwan
Taketoshi Okuno, Japan

General Chair
Chin-Teng Lin, Taiwan

General Co-Chair
Yau-Huang Kuo, Taiwan

Program Chair
Chang-Shing Lee, Taiwan

Program Co-Chairs
Hisao Ishibuchi, Japan
Wen-June Wang, Taiwan

Advisory Committee Members
James Bezdek, USA
Zeungnam Bien, Korea
Piero Bonissone, USA
Bernadette Bouchon-Meunier, France
Bor-Sen Chen, Taiwan
Jyh-Horng Chou, Taiwan
Dimitar Filev, USA
Kaoru Hirota, Japan
Laszlo Koczy, Hungary
Enrique H. Ruspini, Spain
Kay Chen Tan, Singapore
Ronald Yager, USA
Gary Yen, USA
Lotfi A. Zadeh, USA
Gwo-Hshiung Tzeng, Taiwan

Tutorials Chair
Jerry Mendel, USA

Keynotes Chair
Jim Keller, USA

Panels Chair
Nikhil Pal, India

Invited Sessions Chair
Pau-Choo Chung, Taiwan

Invited Sessions Co-Chairs
Yueh-Min Huang, Taiwan
Chih-Min Lin, Taiwan

Special Sessions Chair
Hani Hagras, UK

Special Sessions Co-Chair
Naoyuki Kubota, Japan

Workshops Chair
Vincenzo Loia, Italy

Workshops Co-Chairs
Tzung-Pei Hong, Taiwan
Shi-Jim Yen, Taiwan

Fuzzy Competition Chair
Hao Ying, USA

Computer Go Competition Chair
Chang-Shing Lee, Taiwan

Computer Go Competition Co-Chairs
Martin Mueller, Canada
Olivier Teytaud, France
Shun-Chin Hsu, Taiwan

Call for Papers

The annual IEEE International Conference on Fuzzy Systems (FUZZ-IEEE) is one of the premier international conferences in the field of fuzzy sets and systems. The 2011 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2011) will be held in Taipei, Taiwan. Taipei, located in northern Taiwan, is Taiwan's capital as well as Taiwan's epic center of government and commerce. Additionally, Taipei is also one of the most vibrant cities in Taiwan with a wealth of culture and tourist attractions. The conference will cover the whole range of research and applications in fuzzy systems and soft computing, including but not limited to:

- Fuzzy control and robotics, sensors, fuzzy hardware, fuzzy architectures
- Fuzzy optimization and design, decision analysis and support
- Fuzzy systems design, modeling, identification, fault detection
- Fuzzy data analysis-clustering and classifiers, pattern recognition, bio-informatics
- Fuzzy information processing-information extraction and retrieval, fusion, text mining
- Knowledge discovery, learning, reasoning, agents, knowledge representation
- Type-2 fuzzy sets, computing with words, granular computing, rough sets, fuzzy human computer interaction
- Fuzzy set theory, fuzzy measures, fuzzy integrals
- Rough sets, grey systems
- Fuzzy systems and internet applications
- Kansei, human-machine interface, brain- machine interface
- Fuzzy image, speech and signal processing, vision and multimedia
- Industrial, financial, and medical applications
- Optimization, decision analysis, decision making, multi- criteria decision making
- Software and hardware applications
- Adaptive, hierarchical, evolutionary, neural and nature- inspired

In addition to regular oral and poster presentations, the conference will include a full program of tutorials, Computational Intelligence Emergent Technology workshops, and panel sessions together with keynote talks from several well-known leaders in the field. Submissions for oral and poster presentation are invited from researchers, practitioners, and students worldwide. Proposals for Special Sessions should be submitted by November 15, 2010. Each proposal should give a half page description of the session topic and names of four to six contributors plus their paper titles. Papers submitted to special sessions will go through the normal reviewing process. Proposals for Tutorials/Panels should be also submitted by November 15, 2010, giving a one page outline of the tutorial and any pre-requisites for the intended audience. Full details of the submission process are on the conference website.

Important Dates

Tutorials/Panels/Special Sessions Proposal	November 15, 2010
Workshops Proposal	December 1, 2010
Notification of Tutorials/Panels/Special Sessions Acceptance	December 1, 2010
Notification of Workshops Acceptance	January 15, 2011
Papers Submission	January 15, 2011
Notification of Papers Acceptance	March 31, 2011
Final Papers Submission	April 30, 2011
Tutorials	June 27, 2011
Conference	June 28-June 30, 2011

Website

http://fuzzieee2011.nutn.edu.tw
http://www.fuzz-ieee2011.org

National Chiao Tung University — National University of Tainan — National Cheng Kung University — Osaka Prefecture University

Publicity Chair
Shyi-Ming Chen, Taiwan

Publicity Co-Chairs
Gary Feng, Hong Kong
Francisco Herrera, Spain
Kok Wai Kevin Wong, Australia
Li-Wei Ko, Taiwan
Frank Chung-Hoon Rhee, Korea
Richard Weber, Chile
Vladik Kreinovich, USA
Valentina Balas, Romania

Finance Chair
I-Fang Chung, Taiwan

Finance Co-Chair
Shun-Feng Su, Taiwan

Publication Chair
Chia-Feng Juang, Taiwan

Publication Co-Chairs
Cheng-Jian Lin, Taiwan
Shin-Mu Tseng, Taiwan

Registration Chair
Jyh-Yeong Chang, Taiwan

Registration Co-Chairs
Wen-Chieh Lin, Taiwan
Sheng-Fu Liang, Taiwan

Student Activities Chair
Faa-Jeng Lin, Taiwan

Student Activities Co-Chair
Rong-Ming Chen, Taiwan

Local Arrangement Chair
Wei-Yen Wang, Taiwan

Local Arrangement Co-Chairs
Jin-Tsong Jeng, Taiwan
Ching-Hung Lee, Taiwan
Chun-Fei Hsu, Taiwan
Jiann-Shu Lee, Taiwan
Shing-Tai Pan, Taiwan

Website Chair
Fu-Shine Pai, Taiwan

Website Co-Chair
Ming-Yi Ju, Taiwan

Area Co-Chairs

Intelligent agents and smart environment
Hani Hagras, UK

Fuzzy control
Jeen-Shing Wang, Taiwan

Fuzzy AI - knowledge discovery, reasoning, knowledge representation
Marek Reformat, Canada

Basic concepts and mathematics
Qiang Shen, UK

Mathematical foundations of fuzzy systems
Baoding Liu, China

Fuzzy robotics
Tzuu-Hseng Li, Taiwan

Fuzzy hardware, sensors and architectures
Kaoru Hirota, Japan

Fuzzy information processing - information extraction and retrieval, fusion
Witold Pedrycz, Canada

Web mining and text mining
Jung-Hsien Chiang, Taiwan

Soft computing and hybrid systems - adaptive, hierarchical, evolutionary, neural and nature-inspired systems
Yaochu Jin, UK

Software engineering and applications
Jonathan Lee (Chair), Taiwan
Alan Liu (Co-Chair) , Taiwan

Memetic computing
Yew Soon Ong, Singapore

Machine learning and cloud computing
Shie-Jue Lee, Taiwan

Fuzzy optimization and design, decision support
Hideki Katagiri, Japan

Granular computing
Churn-Jung Liau, Taiwan

Computing with words
Robert John, UK

Rough sets, fuzzy human computer interaction
Yo-Ping Huang, Taiwan

Type 2 fuzzy sets and systems
Woei Wan Tan, Singapore

Industrial, financial and medical applications, business intelligence
Fernando Gomide, Brazil

Smart interaction and multimedia processing
Hajime Nobuhara, Japan

Fuzzy reinforcement learning
Hamid Berenji, USA

Fuzzy systems and Internet - semantic web, ontologies, searching, networks and routing, intrusion detection
Trevor Martin, UK

Fuzzy decision making and risk analysis
Didier Dubois, France

Genetic fuzzy systems
Rafael Alcalá, Spain

Fuzzy image, speech, vision and signal processing
Oscar Cordon, Spain

Program Committee Members
Rafael Alcalá, Spain
Plamen Angelov, UK
Sansanee Auephanwiriyakul, Thailand
Robert Babuska, Netherlands
Gleb Beliakov, Australia
Oscar Castillo, Mexico
Shyi-Ming Chen, Taiwan
Yung-Yaw Chen, Taiwan
Martine De Cock, Belgium
Yutaka Hata, Japan
Janusz Kacprzyk, Poland
Okyay Kaynak, Turkey
Son Kuswadi, Indonesia
Yongming Li, China
Kuang-Yow Lian, Taiwan
Radko Mesiar, Slovakia
Detlef Nauck, UK
Andreas Nürnberger, Germany
Leszek Rutkowski, Poland
Mika Sato-Ilic, Japan
Joao Miguel da Costa Sousa, Portugal
Juhng-Perng Su, Taiwan
Chin-Wang Tao, Taiwan
Nipon Theera-Umpon, Thailand
Kuo-Yang Tu, Taiwan
Chi-Hsu Wang, Taiwan
Fei-Yue Wang, USA
Rahmat Widyanto, Indonesia
Hongwei Wu, USA

國立交通大學
National Chiao Tung University

NUTN
國立臺南大學
National University of Tainan

國立成功大學
National Cheng Kung University

大阪府立大學
Osaka Prefecture University