

IFSA Newsletter Vol. 10, No. 1,

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EDITED BY: Shun-Feng Su

VP for publicity

In this issue of IFSA newsletter, we proudly announced that Prof. Lotfi Zadeh is the winner of the BBVA Foundation Frontiers of Knowledge Award for enabling computers and machines to behave and decide like human beings. It is a great honor to all fuzzy related researchers. Also, 2013 IFSA awards are announced. Finally, there are some call for papers from different parties. Hopefully, those messages are informative to you.

I. Message from Newsletter Editor

Dear IFSA Members:

It has been nearly two years since I was elected as the IFSA vice president for publicity. My major responsibility is to edit the IFSA newsletters and maintain the IFSA website. We

hope they could become a forum to share news and ideas for all members of IFSA. Since 2011, I have been doing my best to publish the IFSA newsletters quarterly and updated the contents on the websites. Well, it seemed that I was not able to get sufficient support from all of you and the articles in the newsletters published and the contents on the website are not have sufficient messages to all IFSA members. I am sorry to say that I did not have this job well done. I hope the IFSA officers can get supports from all of you in the future so that the IFSA can truly become a family for all fuzzy related researchers.

Sincerely yours,

Shun-Feng Su, FIEEE, FCACS
IFSA Vice President
Chair Professor, EE, NTUST,
President of Taiwan Fuzzy System Association

II. BBVA Foundation Frontiers of Knowledge Award

Lotfi Zadeh wins the BBVA Foundation Frontiers of Knowledge Award for enabling computers and machines to behave and decide like human beings

By Luis Magdalena

“By equipping computers to tolerate real-world complexities and decide accordingly, fuzzy logic transforms them from mere calculating machines, and allows appliances and systems to operate autonomously. His 1965 paper on fuzzy sets is one of the most cited of the 20th century, and has given rise to over 50,000 patents just considering Japan and the United States. Fuzzy logic is now an essential part of popular consumer technologies - like video cameras or washing machines - and other more sophisticated technologies used in medicine and the automobile and railway industries.”

The BBVA Foundation Frontiers of Knowledge Award in the Information and Communication Technologies (ICT) category has been granted in this fifth edition to the electrical engineer Lotfi A. Zadeh, "for the invention and development of fuzzy logic." This "revolutionary" breakthrough, affirms the jury in its citation, has enabled machines to work with imprecise concepts, in the same way humans do, and thus secure more efficient results more aligned with reality. In the last fifty years, this methodology has generated over 50,000 patents in Japan and the U.S. alone.

The award will consist of €400,000, a diploma and a commemorative artwork. All

information including a video message by Prof. Zadeh can be found at Fundación BBVA (<http://www.fbbva.es/TLFU/tlfu/ing/microsites/premios/fronteras/galardonados/2012/informacion.jsp>).

Prof. Zadeh was nominated by Luis Magdalena, Director General of the European Centre for Soft Computing (<http://www.softcomputing.es>) and Secretary of the IFSA Board. The Awards ceremony will take place next June 20th. The jury in this category was chaired by George Gottlob, Professor of Computer Science at the University of Oxford (United Kingdom), with Ramon Lopez de Mantaras, Director of the Artificial Intelligence Research Institute of the Spanish National Research Council (CSIC) acting as secretary. Remaining members were Oussama Khatib, Professor in the Artificial Intelligence Laboratory in the Computer Sciences Department of Stanford University (United States), Rudolf Kruse, Head of the Department of Knowledge Processing and Language Engineering at Otto-von-Guerike-Universitat Magdeburg (Germany), Mateo Valero, Director of the Barcelona Supercomputing Center (Spain) and Joos Vandewalle, Head of the SDC Division in the Department of Electrical Engineering at the Katholieke Universiteit Leuven (Belgium).



The Jury during the announcement of their decisión.

III. Message from Lotfi Zadeh after The BBVA Award

What is fuzzy logic?

The BBVA Award has rekindled discussions and debates regarding what fuzzy logic is and what it has to offer. The discussions and debates brought to the surface many misconceptions and misunderstandings. A major source of misunderstanding is rooted in the fact that fuzzy logic has two different meanings -- fuzzy logic in a narrow sense, and fuzzy logic in a wide sense. Informally, narrow-sense fuzzy logic is a logical system which is a generalization of multivalued logic. An important example of narrow-sense fuzzy logic is fuzzy modal logic. In multivalued logic, truth is a matter of degree. A very important distinguishing feature of fuzzy logic is that in fuzzy logic everything is, or is allowed to be, a matter of degree. Furthermore, the degrees are allowed to be fuzzy. Wide-sense fuzzy logic, call it FL, is much more than a logical system. Informally, FL is a precise system of reasoning and computation in which the objects of reasoning and computation are classes with unsharp (fuzzy) boundaries. The centerpiece of fuzzy logic is the concept of a fuzzy set. More generally, FL may be a system of such systems. Today, the term fuzzy logic, FL, is used preponderantly in its wide sense. This is the sense in which the term fuzzy logic is used in the sequel. It is important to note that when we talk about the impact of fuzzy logic, we are talking about the impact of FL. Intellectually, narrow-sense fuzzy logic is an important part of FL, but volume-wise it is a very small part. In fact, most applications of fuzzy logic involve no logic in its traditional sense.

What is not widely recognized within the scientific community and the general public, is that fuzzy logic has become a vast enterprise. There are over 280,000 papers in the literature with fuzzy in title. There are 25 journals with fuzzy in title. There are close to 25,000 fuzzy-logic-related patents issued or applied for in the United States and Japan. There is a long list of applications ranging from digital cameras to fraud detection systems. Particularly worthy of note, on one end, is the fuzzy logic subway system in Sendai, a city of over 1 million in Japan. On the other end, numerically, is Omron's 120 million fuzzy logic blood pressure meters.

Most, but not all of the constituents of fuzzy logic are what are called FL-generalizations of traditional, bivalent-logic-based systems of reasoning and computation. Examples. Fuzzy arithmetic, fuzzy cluster analysis, fuzzy differential equations, fuzzy control, fuzzy linear programming, etc. FL-generalization of a theory or a formalism, T, involves introduction into T of the concept of a fuzzy set, followed by addition of related concepts and techniques. FL-generalization may be applied to any field, any theory, any system, any formalism and any algorithm. The fundamental importance of FL-generalization derives

from the fact that in the real world almost all classes have unsharp (fuzzy) boundaries. As a consequence, FL-generalization opens the door to construction of better models of reality.

It is of interest to observe that the impact of FL-generalization is growing in visibility and importance in mathematics -- a field in which precision plays a quintessential role. We see a growing number of papers with fuzzy in title in many branches of mathematics, among them topology, algebra, differential equations, group theory, set theory, and functional analysis. What may come as a surprise to many is that Math.Sci.Net database lists over 22,383 papers with fuzzy in title. I did not anticipate that this will happen when I wrote my first paper on fuzzy sets. My expectation was that the concept of a fuzzy set would find its main applications in the realm of soft, human-centered sciences.

When it comes to practical application of fuzzy logic, there is a major source of misunderstanding. Fundamentally, fuzzy logic is aimed at precisiation of what is imprecise. But in many of its applications fuzzy logic is used, paradoxically to imprecisiate what is precise. In such applications, there is a tolerance for imprecision, which is exploited through the use of fuzzy logic. Precisiation carries a cost. Imprecisiation reduces cost and enhances tractability. This is what I call the Fuzzy Logic Gambit. What is important to note is that precision has two different meanings: precision in value and precision in meaning. In the Fuzzy Logic Gambit what is sacrificed is precision in value, but not precision in meaning. More concretely, in the Fuzzy Logic Gambit imprecisiation in value is followed by precisiation in meaning. An example is Yamakawa's inverted pendulum. In this case, differential equations are replaced by fuzzy if-then rules in which words are used in place of numbers. What is precisiated is the meaning of words.

Some critics have been saying that fuzzy logic is a passing fad. This assessment of fuzzy logic fails to recognize that the world we live in is, in large measure, a world of fuzzy classes, and that science has much to gain from shifting its foundation from classical Aristotelian logic to fuzzy logic. Comments are welcome.

Regards to all,

Lotfi A. Zadeh

Professor Emeritus

Director, Berkeley Initiative in Soft Computing (BISC)

Computer Science Division

Department of Electrical Engineering and Computer Sciences

University of California

P.S. Before fuzzy theory came into existence, the concept of fuzziness was a very infrequent topic of discussion in the literature of logic and philosophy. When it was discussed, the

term vague was employed, inaccurately, to describe what should have been called fuzzy. No distinction was made between the concepts of vagueness and fuzziness. Basically, vagueness connotes insufficient specificity, whereas fuzziness connotes unsharpness of class boundaries. I will be back in a few minutes, is fuzzy but not vague. I will be back sometime, is fuzzy and vague. A shadow is fuzzy but not vague. Inappropriate use of the term vague is still a common practice in the literature of philosophy.

IV. Report on IFSA Awards and IFSA Fellowships

By Javier Montero

1. IFSA Fellowship

This year, the IFSA Commission for IFSA Fellowships (Ronald Yager acting as Chairman, Michio Sugeno, Henri Prade, Janusz Kacprzyk and George Klir) acknowledged the following colleagues as new IFSA Fellows:

- *Krassimir Atanassov*
- *Miguel Delgado*
- *Antonio Di Nola*
- *János Fodor*
- *Lluis Godo*
- *Francisco Herrera*
- *Donald Kraft*
- *Chin-Teng Lin*

2. IFSA Award

The IFSA Award is presented biannually, at the IFSA World Congresses, to one person (although eventually, considering the circumstances, more than one award may be offered).

The primary base of decision about awardees is their life time academic achievement. The IFSA award is defined consisting of a bronze plaque, trip reimbursement to attend the awards ceremony, and free registration for IFSA conferences.

In 2011, the IFSA Award Committee named by the IFSA President and the Council of IFSA (Kaoru Hirota as President, Oscar Castillo as President Elect, Janusz Kacprzyk as Immediate Past President, Laszlo T. Koczy as Past President and Chairman of this Committee,

and Luis Magdalena as Vice President for Awards) assigned two awards, to Ronald Yager and Enric Trillas.

In 2013, considering the candidatures from each IFSA institutional member, the Committee named by the IFSA President (Oscar Castillo as President, Kaoru Hirota as Immediate Past President, Christer Carlsson as President Elect, and Javier Montero as Vice President for Awards) assigned this award to:

- *Janusz Kacprzyk*

(Janusz Kacprzyk, as IFSA Past President, had been previously excluded from the Committee, once he was named by an IFSA institutional member).

3. IFSA Award for Outstanding Applications of Fuzzy Technology 2011

The IFSA Award for Outstanding Applications of Fuzzy Technology is awarded to engineers and scientists who have made significant contributions to the transfer of fuzzy logic technology from the research environment to successful commercial, industrial, or medical applications.

In 2011, the appointed Committee (Luis Magdalena as Vice President for Awards, Oscar Castillo, Fernando Gomide, Christer Carlsson and Sungshin Kim) distinguished as the winner of the Outstanding Applications of Fuzzy Technology Award to “Forensic Identification System Using Craniofacial Superimposition Based on Fuzzy Sets and Evolutionary Algorithms”, by O. Cordón, S. Damas, O. Ibáñez, J. Santamaría, I. Alemán, M. Botella, and F. Navarro.

In 2013, no Outstanding Application of Fuzzy Technology Award was acknowledged.

4. L.A. Zadeh Prize (Best Paper Award)

This is an award mostly supported by Prof. Zadeh’s donation. It recognizes a paper published within the previous two years. Nominations come from institutional members. The paper should have been published within the previous two years, to be selected from FSS, IJAR, IJCIS, IJUFKBS, JACI, or any official journal published by institutional members, and should be written in English. This prize should encourage young researchers.

The first L.A. Zadeh was acknowledged in 2011 to the paper by A. Fernandez, M.J. del Jesus and F. Herrera: “Hierarchical fuzzy rule based classification systems with genetic rule selection for imbalanced data-sets” (International Journal of Approximate Reasoning, 50:561-577, 2009).

In 2013, considering all the nominations from each IFSA institutional member among papers published in those journals during 2011 and 2012, the Committee (Janusz Kacprzyk

acting as Chairman, Piero Bonissone, Chin-Teng Lin and Burhan Turksen) decided to award the paper:

- P. Bosc, O. Pivert and G. Smits: "An Approach to Database Preference Queries Based on an Outranking Relation, by P. Bosc, O. Pivert, G. Smits (*International Journal of Computational Intelligence Systems* 5:789-804, 2012).

V. Master In Soft Computing And Intelligent Data Analysis

By Luis Magdalena

Organized by European Centre for Soft Computing and University of Oviedo, Mieres (Asturias, Spain)
(<http://www.softcomputing.es/master>)

A welcoming video by Professor Lotfi Zadeh can be seen at <http://www.youtube.com/watch?v=tFpecXc5Dkg>. Prof. Zadeh has recently been awarded with the BBVA Foundation Frontiers of Knowledge Award in the Information and Communication Technologies (ICT) category.

In order that economic factors do not prevent qualified and motivated candidates from joining the Master, the European Centre for Soft Computing has developed a **scholarships programme** funded by important companies. Scholarships are open to all applicants and will be awarded on the basis of academic excellence.

Over 90% of our MS Students got a job in the field in less than one year after obtaining their degree, which confirms the emerging need of the society to rapidly incorporate such qualified professionals to different sectors.

The Master

The objective of the Master is to provide students with the foundations and skills required for the development of a research career in this field, either in academy or industry. The Master is supported (including a scholarships programme) by several companies with important presence in their specific fields. The students will also be prepared to pursue a PhD degree, or even a dual PhD on the basis of the existing agreement between University of Oviedo and University of Milan.

The tremendous potential of SC and IDA has created a demand for well-trained professionals in this field. For this reason, the University of Oviedo and the European Centre for Soft Computing have joined efforts to offer an Official Master Course in Soft Computing

and Intelligent Data Analysis (official Master language: English). This is a one-year full-time program that combines rigorous training in advanced techniques with a close contact with real applications.

Program Structure

The program is designed to provide a balanced mixture between theory and practice as well as academic and professional training. The course is divided into three Modules plus a Master's project:

Module I: Fundamentals of Soft Computing and IDA

Module II: Advanced topics in Soft Computing and IDA

Module III: Applications

Lecturers

The teaching staff has been selected among the top academics in this field. All lecturers have considerable teaching experience (on average, 20 years) and a world-class reputation in research. The list of lecturers includes, among others: Andreas Nürnberger, Antonio Bahamonde, Bodgan Gabrys, Christian Borgelt, Enric Trillas, Enrique Ruspini, Fabio Crestani, Francisco Herrera, José Antonio Lozano, Luis Magdalena, M. Ángeles Gil, Miguel Delgado, Oscar Cerdón, Pedro Larrañaga, Piero Bonissone, Rudolf Kruse, Sven Crone, and other well known lecturers.

Information

For more information visit <http://www.softcomputing.es/master>, or email your questions to master@softcomputing.es.

VI. Call for papers

1. Special Issue of the IEEE Transaction on Fuzzy Systems

IEEE TRANSACTIONS ON **FUZZY SYSTEMS**

Special Issue on

Web-Based Intelligence Support Systems using Fuzzy Set Technology

I. Aims And Scope

Web-based technology has enjoyed a tremendous growth and exhibited a wealth of development at both conceptual and algorithmic levels. In particular, there have been numerous successful realizations of Web-based support systems in various application areas, including e-learning, e-commerce, e-government, and e-market. Web-based support systems are highly visible and influential examples of user-oriented technology supporting numerous human pursuits realized across the Internet. In the two categories of decision support systems and recommender systems, the facet of user centricity and friendliness is well documented.

Recent literature review demonstrates that more and more successful developments in Web-based support systems are being integrated with fuzzy sets to enhance intelligence-oriented functionality such as web search systems by fuzzy matching; Internet shopping systems using fuzzy multi-agents; product recommender systems supported by fuzzy measure algorithms; e-logistics systems using fuzzy optimization models; online customer segments using fuzzy data mining; fuzzy case-based reasoning in e-learning systems, and particularly online decision support systems supported by fuzzy set techniques. These developments have demonstrated how the use of fuzzy set technology can benefit the implementation of Web-based support systems in business real-time decision making and government online services.

In light of the above observations, this special issue is intended to form an international forum presenting innovative developments of fuzzy set applications in Web-based support systems. The ultimate objective is to bring well-focused high quality research results in Web-based support systems with intent to identify the most promising avenues, report the main results and promote the visibility and relevance of fuzzy sets. The intent is to raise awareness of the domain of Web-based technologies as a high-potential subject area to be pursued by the fuzzy set research community.

II. Topics Covered

Fuzzy sets technology in

- Web-based group support systems
- Web-based decision support systems
- Web-based personalized recommender systems
- Web-based knowledge management systems
- Web-based customer relationship management
- Web-based tutoring systems

and *their applications* to:

- E-business intelligence
- E-commerce intelligence
- E-government intelligence
- E-learning intelligence

III. Important Dates

Aug. 1, 2013: Submission deadline

Nov. 1, 2013: Notification of the first-round review

Jan. 1, 2014: Revised submission due

Mar. 1, 2014: Final notice of acceptance/reject

IV. Submission Guidelines

Manuscripts should be prepared according to the instruction of the “Information for Authors” section of the journal found and submission should be done through the IEEE TFS journal website: <http://mc.manuscriptcentral.com/tfs-ieee/> Clearly mark “Special Issue on Web-Based Intelligence Support Systems using Fuzzy Set Technology” in your cover letter to the Editor-in-Chief. All submitted manuscripts will be reviewed using the standard procedure that is followed for regular submissions.

V. Guest Editors

Prof. Witold Pedrycz

Department of Electrical & Computer Engineering

University of Alberta, Canada

e-mail: wpedrycz@ualberta.ca

Prof. Jie Lu

School of Software

Faculty of Engineering and Information Technology,

University of Technology, Sydney, Australia

e-mail: jie.lu@uts.edu.au

2. Special Issue of the International Journal of Fuzzy Systems

Special Issue for 2013 International Conference on Fuzzy Theory and Its Applications (iFUZZY2013)

Fuzzy theory has been a practical alternative for numerous challenging applications because it can provide nonlinear mechanisms with the use of linguistic information or some intelligent means. The international conference on Fuzzy Theory and Its Applications (iFUZZY2013) just gets started last year, whereas its national conference in Taiwan has been 20 years since its first launch in 1993. *International Journal of Fuzzy Systems* intends to create a special issue for this new international conference, iFUZZY2013. In order to expedite the review process of all submitted papers, we will have a special session in iFUZZY2013 to let authors have chances to reply to the reviewers' comments. All intended authors are asked to submit a corresponding conference paper to the conference and promise to have the full journal paper ready on Oct. 10. It should be noted that the conference paper and the submitted paper to IJFS must have at least 30% of difference to avoid any copyright issue. We will send out the review comments before Nov. 10 so that the authors can prepare their replies to be presented on Dec. 7. If the reviewers are satisfied with the replies, the submitted papers will be accepted on site and are expected to be published in 2014.

Key Dates :

Conference paper submission deadline: August 1st, 2013.

Journal paper submission deadline: October 10th, 2013.

The first review notification: November 10th, 2013.

Onsite replies to the review comments: December 7th, 2013.

Planned publication date: March, 2014

Guest Editors:

Dr. Chia-Feng Juang, Professor of Electrical Engineering, National Chung Hsing University, Taichung, Taiwan

Dr. Shun-Feng Su, Chair Professor of Department of Electrical Engineering, National Taiwan University of Science and Technology, Taipei, Taiwan,

Dr. Wen-June Wang, Chair Professor and Dean of College of Electrical and Computer Engineering National Central University, Chung-Li, Taiwan

Dr. Kao-Shing Hwang, Professor of Electrical Engineering, National Sun Yat-Sen University, Koahsiung, Taiwan

Submission Systems: <http://isdlab.ie.ntnu.edu.tw/IJFS/index.php> (When entering the system, please select iFuzzy 2013 special issue for submitting papers.)

More information about iFuzzy 2013 available at <http://isdlab.ie.ntnu.edu.tw/ifuzzy2013/>.

3. Call for Papers of iFUZZY2013

Thanks to technical support from International Fuzzy Systems Association and other two well-known societies, Taiwan Fuzzy Systems Association, IEEE Systems, Man, and Cybernetics Society and National Taiwan University of Science and Technology, work together as co-founders to organize the 2013 international conference on fuzzy theory and its applications (iFUZZY2013) on 6-8 December, 2013. This three-day conference, hosted by National Taiwan University of Science and Technology, Taipei, Taiwan, is aimed to provide a very good opportunity for research scientists, investigators, industrial practitioners and government representatives to present their results and to exchange their ideas in all aspects of fuzzy theories, technologies and applications.

In this conference, there are a number of features that you may be interested. They are

1. **Keynote Speakers: W. Pedrycz; C. T. Lin; E. Santos Jr.; and B. De Baets** — Details can be seen on <http://isdlab.ie.ntnu.edu.tw/ifuzzy2013/KeynoteSpeech.html>.

2. **Panel discussion: Publications in Fuzzy related Journals**

Panelists: **W. J. Wang:** EIC of International Journal of Fuzzy Systems (Category: Computer Science, Artificial Intelligence (Rank:58/111; IF = 1.157));

W. Pedrycz: EIC of *IEEE Transactions on Systems, Man, and Cybernetics: Systems* (Category: Computer Science, Theory & Methods (Rank:7/99; IF=2.123)) and of *Information Science* (Category: Computer Science, Information System (Rank:9/135; IF=2.833));

C. T. Lin: EIC of *IEEE Transactions on Fuzzy Systems* (Category: Computer Science, Artificial Intelligence (Rank:5/111; IF=4.26));

E. Santos Jr. : EIC of *IEEE Transactions on Cybernetics* (Category: Computer Science, Artificial Intelligence (Rank:10/111; IF=3.08));

B. De Baets: Co-EIC of *Fuzzy Sets and Systems* (Category: Computer Science, Theory & Methods (Rank:11/99; IF=1.759));

Peng Shi: EIC of *International Journal of Innovative Computing, Information and Control* (Category: Automation & Control Systems (Rank:12/60; 2011 IF=1.759)).

→Come to listen to what those EICs say about publication in fuzzy related journals

3. **Special Issue in International Journal of Fuzzy Systems**

(<http://isdlab.ie.ntnu.edu.tw/ifuzzy2013/IJFSSpecialIssue.html>)

→Candidate papers will be presented and accept Q/A on site.

4. **AE dinners for Related journals** → It means lots of experts (AEs) are here. Please come to them on site.

5. **Best paper awards:** If you are interested, be sure to click the icon when you submit your papers.

Please come and enjoy those interesting events. All accepted papers will be included in IEEEExplore (IEL database) provided that the IEEE required conditions are satisfied.

Currently, iFUZZY2013 program committee is soliciting novel research results on fuzzy theory and its applications and related topics. For details of the conference and topics of interest, please visit the conference website at <http://isdlab.ie.ntnu.edu.tw/ifuzzy2013/>. Here we sincerely invite all IFSA members to submit papers to this conference and welcome to visit the so-called beautiful island, Taiwan. The current paper submission deadline is June 15. Please be sure to mark you schedule and come to join this great event in Taiwan, a beautiful island in the south-east Asia. For more tour information of Taiwan, please visit the Taiwan Tourism Bureau website: <http://www.tboc.gov.tw>.

Sincerely yours,

Shun-Feng Su

General Chair, iFUZZY2013,

Chair Professor, Department of Electrical Engineering,

National Taiwan University of Science and Technology,

Taipei, Taiwan

CALL FOR PAPERS

Dec. 6 – 8, 2013

National Taiwan University of Science
and Technology, Taipei, Taiwan



Technical Co-sponsors by IEEE Systems, Man and Cybernetics Society
International Fuzzy System Association (IFSA)

Theme

2013 International conference on Fuzzy Theory and Its Applications (iFUZZY2013) will be hosted by National Taiwan University of Science and Technology (NTUST), Taipei, Taiwan, on December 6-8, 2013. iFUZZY 2013 is soliciting novel research results on fuzzy theory and its applications and related topics. Jointly organized by Taiwan Fuzzy Systems Association and NTUST, this conference provides a very good opportunity for research scientists, investigators, industrial practitioners and government representatives to present their results and to exchange their ideas. For paper submissions and more information, please visit the conference website at <http://isdlab.ie.ntnu.edu.tw/ifuzzy2013/>. Topics of interests include but are not limited to:

- Business Intelligence
- Fuzzy Applications in Machine Design
- Fuzzy Applications in Biomedical
- Fuzzy Classification and Clustering
- Hybrid Systems
- Fuzzy Applications in Business Management
- Fuzzy Control and Robotics
- Intelligent Control
- Fuzzy Applications in Communications and Networking
- Fuzzy Image
- Machine Learning
- Fuzzy Applications in Engineering
- Speech and Signal Processing
- Natural Language Processing
- Fuzzy Applications in Logistic Management
- Fuzzy Integral
- Rough Set
- Fuzzy Applications in Diagnosis and Therapy
- Fuzzy Hardware and VLSI Chip
- Computing with Words
- Fuzzy Applications in Manufacture Process
- Fuzzy Optimization
- Evolutionary Computation and Optimization
- Fuzzy Applications in Statistical Process Control
- Fuzzy Reasoning
- Fuzzy Data Analysis, Fuzzy Decision Making and Support
- Intelligent Signal Processing
- Fuzzy Applications in Reformation
- Fuzzy Identification and Estimation
- Modeling and Simulation
- Fuzzy Applications in Computer Vision
- Fuzzy Information Processing
- Neural Fuzzy Systems
- Fuzzy Applications in Finance
- Fuzzy Intelligent Database Systems
- Soft Computing Applications
- Fuzzy Applications in Insurance
- Fuzzy Mathematics
- Other
- Fuzzy Applications in Risk Management
- Fuzzy Pattern Recognition

Important Dates

June 15, 2013: Deadline for submission of proposals for invited sessions

July 1, 2013: Deadline for submission of papers (full papers only)

Sept. 1, 2013: Notification of acceptance

Oct. 1, 2013: Final camera-ready papers due

Submission Policies:

Papers submitted should be written in English. All submissions must be made electronically in PDF format via the conference website at <http://isdlab.ie.ntnu.edu.tw/ifuzzy2013/>. The official language of the conference is English. All the accepted papers are EI-indexed and included in the IEEE Xplore database. Some high-quality papers can be directly published in the special issue of International Journal of Fuzzy Systems with Impact Factor of 1.362 for details, please see Call for paper for Special Issue on International Journal of Fuzzy Systems.

Contributed Papers:

Submit full paper manuscripts of no more than 6 pages in total length. Download Paper Template.

Organized/Invited Sessions:

iFUZZY2013 welcomes proposals for organized/invited sessions within conference scope. Please put the proposal and the extended abstracts of all constituent papers in ONE electronic file when submitting. Please see Guidelines for Proposals of Organized/Invited Sessions for details.

Best Conference Paper Award Contest:

Identify your submission as the contest entry when you upload your manuscript electronically. Please see Guidelines for the Best Conference Paper Award Contest for details.

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Ching-Jong Liao, Natl Taiwan Univ. of Sci. and
Tech., Taiwan

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VII. Mathware & Soft Computing, The Eusflat Magazine

The next issue of the Mathware&Soft Computing online magazine will appear on June, 20. This magazine of the European Society for Fuzzy Logic and technology is open to contributions from any researchers both in the fields of fuzzy logic and Soft Computing and in any other related area. This contributions may include, but are not limited to, news, conference announcements, reviews on books, vacancies, So, please, send your contributions for the next issue before May 10 to the following e-mail address: bustince@unavarra.es. Further information on the Mathware & Soft Computing magazine can be found at the webpage: <http://www.eusflat.org/msc/>, where previous issues of the magazine can be also reached.

Contributions for the Next Issue

If you are interested in contributing information or articles for the next issue of the IFSA newsletter, please send a word file to sfsu@mail.ntust.edu.tw. The deadline for contents appearing on the next issue is June, 15, 2013.