

# Fuzzy Sets and Systems

## Lotfi A. Zadeh, The founder of fuzzy logic

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### Fuzzy Logic Tools and Companies. General sources of fuzzy information.

Maintained by Bob John.

### Conferences and Workshops on Fuzzy Systems: 1990-2001

From the Parallel and Distributed Processing Laboratory of the Department of Applied Informatics, University of Macedonia, Thessaloniki, Greece

### World Federation on Soft Computing

### Artificial Intelligence-related Frequently Asked Questions

## Professional Organizations and Networks

### International Fuzzy Systems Association (IFSA)

IFSA is a worldwide organization dedicated to the support and development of the theory of fuzzy sets and systems and related areas and their applications, publishes the International Journal of Fuzzy Sets and Systems, holds International conferences, establishes chapters and sponsors other activities.

### Japan Society for Fuzzy Theory and Systems (SOFT)

Established in 1989. SOFT has 1,670 individual members and 74 company members, publishes an official bimonthly journal and organizes fuzzy systems symposiums. There are 8 regional branches and 8 research groups in SOFT.

### Berkeley Initiative in Soft Computing (BISC)

BISC Program is the world-leading center for basic and applied research in soft computing. The principal constituents of soft computing (SC) are fuzzy logic (FL), neural network theory (NN) and probabilistic reasoning (PR), with the latter subsuming belief networks, evolutionary computing including DNA computing, chaos theory and parts of learning theory.

### North American Fuzzy Information Processing Society (NAFIPS)

As the premier fuzzy society in North America established in 1981, our purpose is to help guide and encourage the development of fuzzy sets and related technologies for the benefit of mankind.

Please mail questions/comments to the NAFIPS president ([president@nafips.org](mailto:president@nafips.org)) or to the NAFIPS web site maintainer ([webmaster@nafips.org](mailto:webmaster@nafips.org)).

### Spanish Association of Fuzzy Logic and Technologies

Promotes and disseminates the methods, techniques and developments of Fuzzy Logic and Technologies; Establish relations with other national or international Associations with similar aims; Organizes seminars and round tables on Fuzzy Logic and Technologies. Fuzzy Research Groups in Spain.

### The European Society for Fuzzy Logic and Technology (EUSFLAT)

Established in 1998. The main goal of EUSFLAT are to represent the European fuzzy

community of IFSA. To become a member of EUSFLAT please fill in [the registration form](#).

## Hungarian Fuzzy Society

Established in 1998. Honorary president: Tibor Vámos. President: [Imre Rudas](#).

## EUROFUSE Working Group on Fuzzy Sets of EURO

Established in 1975. The purpose of EUROFUSE is to communicate and promote the knowledge of the theory of fuzzy sets and related areas and their applications. In 1985, the Group constituted itself as the European Chapter of [IFSA](#). It was chaired by [Christer Carlsson](#) [1979-1986], [Marc Roubens](#) [1986-1993] and [Hans Hellendoorn](#) [1993-1998]. From 1998, [Bernard De Baets](#) and [János Fodor](#) coordinate the working group called EUROFUSE and it does not represent the European Chapter of IFSA any more.

## EUNITE

EUropean Network on Intelligent TEchnologies for Smart Adaptive Systems

On 1 January 2001, EUNITE - the European Network of Excellence on Intelligent Technologies for Smart Adaptive Systems - has started. It is funded by the [Information Society Technologies Programme](#) (IST) within the European Union's Fifth RTD Framework Programme.

# **Fuzzy Logic Journals and Books**

## Journal of Fuzzy Sets and Systems.

Official Publication of the International Fuzzy Systems Association. International Journal of Soft Computing and Intelligence. [Special Issues](#). Editors-in-Chief: Didier Dubois and Henri Prade.

## The Journal of Fuzzy Mathematics.

The purpose of the journal is to improve the dissemination and exchange of the theory and application in the fuzzy realm. It publish articles of real significance and of high quality in the area of fuzzy sets and related fields. Editor-in-Chief: Hu Cheng-ming.

## International Journal Uncertainty, Fuzziness and Knowledge-Based Systems

The aim of the journal is to promote theoretical, methodological or practical works dealing with all kinds of methods to represent and manipulate imperfectly described pieces of knowledge. Editor-in-Chief: [Bernadette Bouchon-Meunier](#).

## IEEE Transactions on Fuzzy Systems.

Publication of the [IEEE Neural Networks Council](#).

## International Journal of Approximate Reasoning.

Dedicated to the dissemination of research results from the field of approximate reasoning and its applications, with emphasis on the design and implementation of intelligent systems for scientific and engineering applications. [Special Issues](#). Editor-in-Chief: [Piero P. Bonissone](#).

## Information Sciences.

Provides a forum for research workers in the field of information science and expedites communication between them and applications-oriented scientists. The journal contains three sections each with its own distinguished senior associate editor. [Special Issues](#). Editor-in-Chief: Paul P. Wang.

## International Journal of Intelligent Systems.

Devoted to the systematic development of the theory necessary for the construction of intelligent systems. Editor-in-Chief: [Ronald R. Yager](#).

### Mathware and Soft Computing

Basically includes theoretical contributions that use mathematical tools and models that could be relevant in applications for Cognitive Sciences, pure or applied Logic and Artificial Intelligence. [Get it online!](#)

### Journal of Advanced Computational Intelligence & Intelligent Informatics.

Focuses on Advanced Computational Intelligence, including the synergetic integration of neural networks, fuzzy logic and evolutionary computation, so that more intelligent system can be built to industrial applications. Editors-in-Chief: [Toshio Fukuda](#) and [Kaoru Hirota](#)

### Journal of Intelligent & Fuzzy Systems

Fosters the exchange and dissemination of applications and case studies in the areas of fuzzy logic and intelligent systems among working professionals and professionals in education and research, among a broad cross-section of technical disciplines.

### Soft Computing

Aimed to provide rapid publication of important and timely results on soft computing technologies. Managing Editor: [Antonio Di Nola](#).

### Electronic Transactions on Artificial Intelligence (ETAI)

New area: Decision and Reasoning under Uncertainty (DRU). Area editors: [Salem Benferhat](#) and Henri Prade.

### Studies in Fuzziness and Soft Computing series

from [Springer-Verlag](#). Editor: [Janusz Kacprzyk](#).

### Advances in Soft Computing series

from [Springer-Verlag](#). Editor: [Janusz Kacprzyk](#).

### The Handbooks of Fuzzy Sets series

from [Kluwer Academic Publishers](#).

### Advances in Fuzzy Systems series from [World Scientific](#).

## Research groups

### Fuzziness and Uncertainty Modelling Research Group at Ghent University, Belgium

Founded in 1976 by Prof. Dr. Etienne E. Kerre. Since that time, theoretical and applied research is and has been done on numerous topics in or related to fuzzy set theory.

### Human-Friendly Welfare Robot System Engineering Research Center at [Korea Advanced Institute of Science and Technology](#)

Established in August, 1999 at KAIST, the Center for Human-friendly Welfare Robotic Systems (HWRS) has been in operation to achieve the research goals of designing and implementing some welfare-type service robots and systems which can interact with human, work with human, and help human for the human welfare.

### Pattern Analysis and Machine Intelligence (PAMI) research group at University of Waterloo, Canada

The group was founded in 1980 as a part of the Department of Systems Design Engineering at the University of Waterloo. The group works on a wide diversity of pertinent research areas. It also consists of several professors, researchers and graduate students, as well as adjunct

members from other departments and universities. [Fuzzy Image Processing](#) at PAMI.

### [Computational Intelligence Research Laboratory](#) at University of Missouri-Columbia, USA

Research topics: Computer Vision, Image Processing, Uncertainty Management, Fuzzy Sets and Fuzzy Logic , Mathematical Morphology in Image Processing, Parallel Processing, Pattern Recognition, Artificial Intelligence, Neural Networks, Robotics, and Applied Image Recognition Systems.

### [Fuzzy Logic Theory and Applications](#) at [Informatik I at Uni. Dortmund](#), Germany

Organizes the [Fuzzy Days in Dortmund](#), The International Conferences on Computational Intelligence

### [Control Systems Engineering Group](#) at Faculty of Information Technology & Systems, Delft University of Technology, The Netherlands

The main goal of the Control Systems Engineering group is to develop methods and tools to control complex nonlinear dynamic systems in order to improve their performance.

### [Inst. for Research and Applications of Fuzzy Modeling](#), Uni. Ostrava, Czech Republic

Established in 1996. The main topic of interest of the institute is research and development of soft computing methods. Director: [Vilém Novák](#).

### [Machine Intelligence Institute](#), USA

Established at Iona College in 1985. The purpose of the Machine Intelligence Institute is to help bring to fruition the promise of the current generation of computer based technologies for the development of intelligent knowledge based systems. Director: [Ronald R. Yager](#).

### [Fuzzy Logic in Integrated Reasoning](#), NRC Institute for Information Technology Ottawa, Canada

The IIT of the NRC has developed [Fuzzy CLIPS](#), an enhanced version of CLIPS that supports Fuzzy Logic. Their [FuzzyJ Toolkit](#) is a set of Java(tm) classes that can be used to build fuzzy logic systems.

### [Fuzzy Logic Laboratorium Linz \(FLLL\)](#), Linz, Austria

After 15 years of theoretical research in Fuzzy Logic [Erich Peter Klement](#) founded the FLLL with the intention of supporting the local industry with knowledge in this rather new area.

### [Approximate Reasoning and Artificial Intelligence Group](#), University of Granada, Spain

Head: [Antonio González](#)

### [Research Group on Artificial Intelligence](#), Universitat Rovira i Virgili, Spain

Multi-agent systems, Belief modelling, Inductive Learning and Rule Production, Fuzzy Sets.

### [Research group on Neural Networks and Fuzzy Systems](#), Uni. Magdeburg, Germany

The group, led by [Rudolf Kruse](#), examines phenomena of uncertainty and vagueness in knowledge based systems, and develops and implements methods to cope with them.

### [ELITE - European Laboratory for Intelligent Techniques Engineering](#), Aachen, Germany

A foundation with objectives: Applied research and research support in Europe, Sponsorship of activities related to intelligent technologies in Europe, Coordination and support of scientists and practitioners in Europe, [EUFIT](#), Exchange of practitioners and scientists.

### [Knowledge/Intelligence Systems Laboratory](#) in the Department of Mechanical and Industrial Engineering at the University of Toronto, Canada

Research areas: Robotics, Fuzzy-Neural Integration, Fuzzy Clustering, Reinforcement Learning, Supervised and Unsupervised Learning, Fuzzy Data Mining

### [Soft computing and Fuzzy Logic Group](#) at University of Milano, Italy

Topics: Many-valued logics, Lukasiewicz logic, t-norm based logics, MV-algebras, fuzzy control.

Back to [Robert Fullér](#)

**BISC**



## The Berkeley Initiative in Soft Computing

*Electrical Engineering and Computer Sciences Department*

Fuzzy Set: 1965 ... Fuzzy Logic: 1973 ... BISC: 1990 ... Human-Machine Perception: 2000 - ...

### Welcome to the BISC Program

The basic ideas underlying soft computing in its current incarnation have links to many earlier influences, among them Prof. Zadeh's 1965 paper on fuzzy sets; the 1973 paper on the analysis of complex systems and decision processes; and the 1979 report (1981 paper) on possibility theory and soft data analysis.

BISC Program is the world-leading center for basic and applied research in soft computing. The principal constituents of soft computing (SC) are fuzzy logic (FL), neural network theory (NN) and probabilistic reasoning (PR), with the latter subsuming belief networks, evolutionary computing including DNA computing, chaos theory and parts of learning theory. Some of the most striking achievements of BISC Program are: fuzzy reasoning (set and logic), new soft computing algorithms making intelligent, semi-supervised use of large quantities of complex data, uncertainty analysis, perception-based decision analysis and decision support systems for risk analysis and management, computing with words, computational theory of perception (CTP), and precisiated natural language (PNL).



**Professor Lotfi A. Zadeh**

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[\*\*Continue\*\*](#)

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Fax (home): (510) 526-2433

Fax (home): (510) 526-5181

Number of citations in the Citation Index: over 11,000.

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## Fuzzy Logic Tools and Companies

- [NEW\\*\\*\\* Flint from LPA](#)
- [Jerry Mendels Type-2 Software](#)
- [Process Cybernetics](#)
- [Xiera Technologies Inc.](#)
- [Fuzzy Systems Solutions from Sonalysts](#)
- [Fuzzy Query \(TM\) also from Sonalysts](#)
- [Monitoring Diagnostics & Control, Inc.](#)
- [Assistum - Strategic Knowledge Management using fuzzy logic](#)
- [Fuzzy Java code](#)
- [Fuzzy Java Toolkit from Rick Hillegas \\*NEW\\*](#)
- [A-B Flex Tool\\*NEW\\*](#)
- [Bytronic Int. Ltd. \\*NEW\\*](#)
- [Inform and FuzzyTech](#)
- [Fuzzy Systems Engineering](#)
- [FLDE by Syndesis](#)
- [Flextool](#)
- [ICCT](#)
- [MATLAB - Fuzzy Logic Toolbox](#)
- [BasiConcepts - Fuzzy Logic Controllers](#)
- [Riga Corp - software for control](#)

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# International Fuzzy Systems Association

The International Fuzzy Systems Association (IFSA) is a worldwide organization dedicated to the support, development and promotion of the fundamental issues of fuzzy theory related to (a) sets, (b) logics, (c) relations, (d) natural languages, (e) concept formation, (f) linguistic modeling, (g) vagueness, (h) information granularity, etc. and their applications to (1) systems modeling, (2) system analysis, (3) diagnosis, (4) prediction and (5) control in decision support systems in management and administration of human organizations as well as electro-mechanical systems in manufacturing and process industries. IFSA organizes and encourages participation in open discussion session on the future directions and restructuring of fuzzy theory in [IFSA congresses](#). Furthermore, IFSA publishes the [International Journal of Fuzzy Sets and Systems](#) and [sponsors](#) workshops and conferences on fuzzy theory.

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[Send](#) us your feedback.

## General sources of fuzzy information and research groups

I would be pleased for information on any others!!

- [Intelligence in Industry Newsletter](#)
- [Bruno di Stefanos links](#)
- [UCI Machine Learning Repository](#)
- [Using Fuzzy Logic in Autonomous Robotics](#)
- [Fuzzy FAQ](#)
- [Fuzzy Environmental Research](#)
- [Fuzzy Music!](#)
- [Fuzzy Filtering](#)
- [Building Fuzzy Expert Systems Handbook](#)
- [Philosophy of Soft Computing](#)
- [Fuzzy Image Processing](#)
- [Basic Fuzzy Logic Book](#)
- [Environmental Sciences and Fuzzy Logic](#)
- [Directory of Intelligent Software](#)
- [THD Fuzzy and Neuro Group](#)
- [Stefan Baginski's Page on Soft Computing](#)
- [Research Group of Approximate reasoning and Artificial Intelligence of the University of Granada](#)
- [BISC Special interest Group on Granular Computing \(SIGGrc\)](#)
- [BISC Special interest Group on Interval Methods in Knowledge Representation \(SIGInterval\)](#)
- [University of Vanderbilt Center for Intelligent Systems](#)
- [Martin Brown's neuro fuzzy page](#)
- [Internet Neuro-Fuzzy and Soft Computing Resources -](#)
- [Fuzzy Decision Making Lecture Notes](#)
- [Some Neural Fuzzy Lecture Notes](#)
- [NATO ADVANCED STUDY INSTITUTE on SOFT COMPUTING AND ITS APPLICATIONS](#)
- [Ortech's Fuzzy Logic Reservoir - interesting!](#)
- [A very good comprehensive page](#)
- [University of Missouri - Columbia](#)
- [Fuzzy Logic FAQ](#)
- [Carnegie Mellon AI Stuff](#)
- [Carnegie Mellon Fuzzy](#)
- [NAFIPS Stuff](#)
- [Fuzzy Logic Archive from Quadralay - intro stuff](#)
- [Lycos Fuzzy Logic search](#)
- [Zadehs' Group at Berkeley Home Page](#)
- [Center for Fuzzy Logic and Intelligent Systems Research at Texas A&M](#)
- [International Fuzzy Systems Association](#)

- [General stuff relating to pointers for Soft Computing on the internet](#)
- [Intelligent Fuzzy Systems Laboratory at University of Toronto - headed by Turksen](#)
- [The Soft Computing Group at Milan](#)
- [Conferences url for all areas](#)
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- [ERUDIT Home Page](#)
- [Yager's Machine Intelligence Institute](#)
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- [MIT GmbH - ELITE Foundation](#)
- [Hybrid Intelligent Systems](#)
- [Expert Systems \(with some fuzzy\)](#)



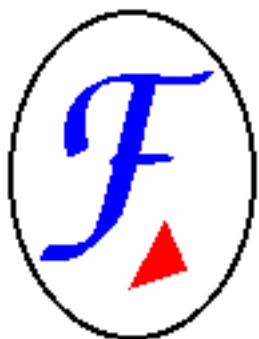
Maintained by Bob John [rij@dmu.ac.uk](mailto:rij@dmu.ac.uk)

# AI-related FAQs

## Artificial Intelligence

- [Artificial Intelligence FAQ](#) - no longer updated, current location is at [UCLA](#).
- [Artificial Life FAQ](#)
- [Constraints FAQ](#)
- [Expert System Shells FAQ](#)
- [Fuzzy Logic FAQ](#)
- [Genetic Algorithms FAQ](#)
- [Microcontroller FAQ](#)
- [Neural Networks FAQ](#)
- [Natural Language Processing](#)
- [Robotics FAQ](#)

Last Web Update on August 10, 1997 by [Mark Kantrowitz](#) AI.Repository@cs.cmu.edu



# ASOCIACIÓN ESPAÑOLA DE TECNOLOGÍA Y LÓGICA FUZZY

Asociacion FLAT

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Spanish version of this page



Father member of the International Fuzzy Systems Association (IFSA)

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As the premier fuzzy society in North America established in 1981, our purpose is to help guide and encourage the development of fuzzy sets and related technologies for the benefit of mankind. In this role, we understand the importance of, and the need for, developing a strong intellectual basis and encouraging new and innovative applications. In addition, we acknowledge our leadership role to foster interaction and technology transfer to other national and international organizations to bring the benefits of this technology to North America and the world.

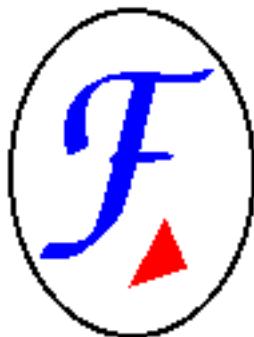
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## News

Planning your conferences? Have a look at our [conference calendar](#).

\* \* \*

October 11, 2004 - [Webmaster@NAFIPS.Org](mailto:Webmaster@NAFIPS.Org)



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## Spanish Research Groups

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### ● Universidad de Granada

- [Grupo de Razonamiento Aproximado e Inteligencia Artificial.](#)
- [Grupo de Tratamiento de la Incertidumbre en Inteligencia Artificial.](#)

### ● Universidad Politécnica de Madrid

- [Dpto. de Automática, Ingeniería Electrónica e Informática Industrial \(DISAM\).](#)

### ● Universidad de Murcia

- [Grupo Inteligencia Artificial e Ingeniería del Conocimiento.](#)
- [Grupo de Sistemas Inteligentes.](#)

### ● Universidad de Las Palmas de Gran Canaria

- [Grupo de Inteligencia Artificial y Sistemas.](#)

### ● Universidad de Santiago de Compostela

- [Grupo Sistemas Inteligentes.](#)



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## International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems (IJUFKS)

### Aims & Scope

The *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems (IJUFKS)* is a forum for research on various methodologies for the management of imprecise, vague, uncertain or incomplete information. The aim of the journal is to promote theoretical, methodological or practical works dealing with all kinds of methods to represent and manipulate imperfectly described pieces of knowledge. It is published bimonthly, with worldwide distribution to researchers, engineers, decision-makers, and educators. [More...](#)

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### Feature Articles (Free Online Sample Issue)

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##### [A Note on a Fuzzy Time Series Model of Fuzzy Number Observations](#)

Dug Hun Hong

##### [Fuzzy Mapping Between Physical Domain and Function Domain in Design Process](#)

Ying-Kui Gu and Hong-Zhong Huang

##### [Fuzzy Transductive Support Vector Machines for Hypertext Classification](#)

Hong Liu and Shang-Teng Huang

##### [The Information Entropy, Rough Entropy and Knowledge Granulation in Rough Set Theory](#)

Jiye Liang and Zhongzhi Shi

##### [Probabilistic Rough Sets Characterized by Fuzzy Sets](#)

Li-Li Wei and Wen-Xiu Zhang

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Jun Li and Masami Yasuda

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Ronald R. Yager



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- [International Journal of Neural Systems \(IJNS\)](#)

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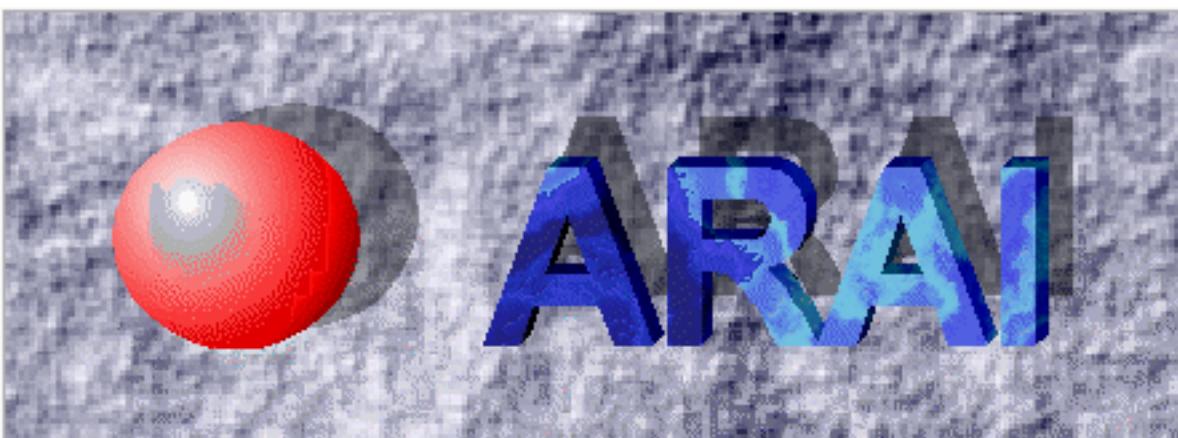
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# GRUPO DE TRABAJO EN RAZONAMIENTO APROXIMADO E INTELIGENCIA ARTIFICIAL

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**Universidad:** Universidad de Granada.

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## Grupo de Investigación de Tratamiento de la Incertidumbre en Inteligencia Artificial



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Actividades de Investigación

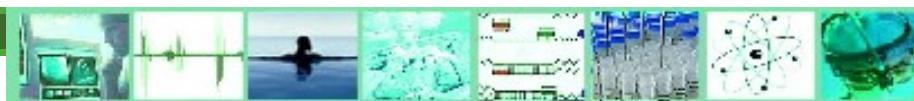
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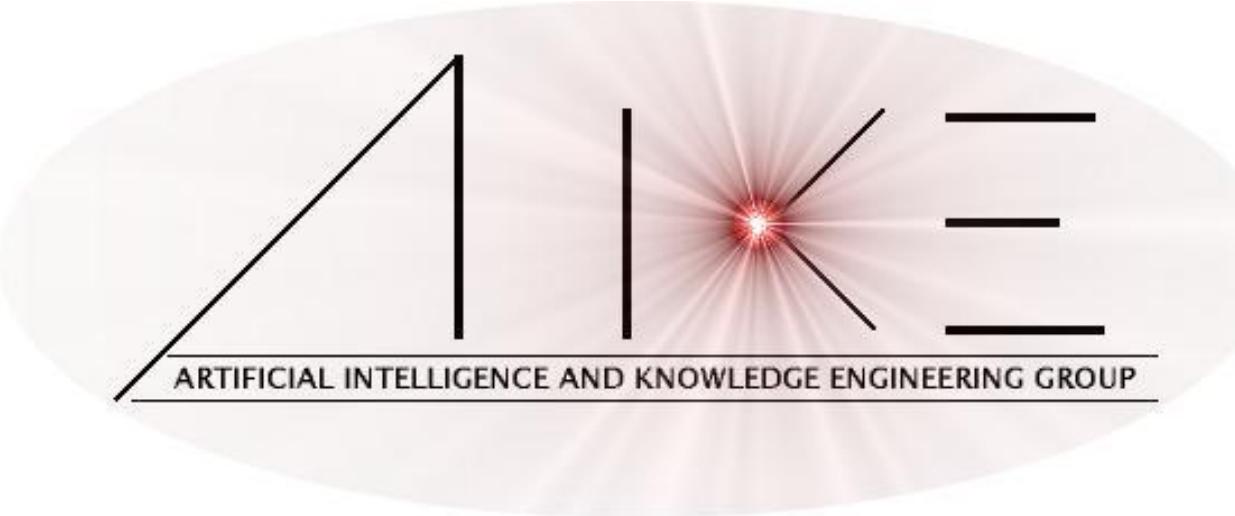
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## Novedades

- [16/05/05] Conferencias
- Doctorado 2005
- [12/04/05] D. Manuel Campos nuevo profesor ayudante
- [02/04/05] Estancia del profesor de Almería Sr. Cañadas



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## Expedición UMU - 8000

### Diario de la expedición montañera al Broad Peak



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*Depto. de Ingeniería de la Información y las Comunicaciones*

*Facultad de Informática*

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## Investigador Principal

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## Líneas de Investigación

- Procesamiento Sensorial y Fusión de Datos
- Optimización y Análisis de Decisiones
- Inferencia y Aprendizaje con Incertidumbre
- Sistemas Cooperativos Inteligentes
- Entornos distribuidos en Enseñanza y Simulación

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## Ofertas de Investigación

- Asesoramiento en diseño de Redes de Ordenadores y servicios Telemáticos
- Asesoramiento en Extracción de Conocimiento de Bases de Datos mediante Minería de Datos
- Asesoramiento en Sistemas de formación continua y a distancia
- Diseño de Sistemas con Conocimiento Impreciso, Incierto o poco Estructurado
- Diseño de Sistemas Inteligentes para Aprendizaje, Inferencia y Toma de Decisiones
- Diseño y Tratamiento de Sistemas Sensorizados y de Reconocimiento
- Servicios de Red Distribuidos
- Tecnologías Inteligentes en la Información aplicada: Entornos Agrícolas, medicina, etc.

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