

**WSES International Conference on
Fuzzy Sets and Fuzzy Systems**
Tenerife Playa, Canary Islands, Spain
February 12-14, 2001

PROGRAM

Monday, February 12

Room A'

Opening (Plenary Lectures):

Plenary Lecture 1, Prof. I. Burhan Turksen, 8:00-8:50

"Fuzziness in the New Millennium"

Plenary Lecture 2, Prof. N. E. Mastorakis, 8:50-9:20

"Cellular Neural Networks (CNN's) for 2-D Systems Analysis"

Room B'

Session 1: 9:20-11:00

Chair: V. A. Oleshchuk, C. M. Helgason

Fuzzy Preference Relations in Procedures of Multicriteria Decision Making

by: *Petr Ekel, M. Junges, I. Alves, A. Melek, R. Schinzinger*

A Modified Fuzzy Artmap Architecture For Power System Dynamic Stability Assessment

by: *Shahram Javadi, Mehdi Ehsan, Nasser Sadati*

A fuzzy model of reputation in agent mediated electronic commerce

by: *Javier Carbo Rubiera, Jose M. Molina Lopez, Jorge Davila Muro*

Robust, Global Stability Analysis of Fuzzy MIMO Systems

by: *Francisco Gordillo*

Fuzzy Logic Assisted Reasoning for Improving the Sea Traffic Control and Surveillance

by: *Andre Quinquis, Emanuel Radoi, Cristian Molder*

Coffee Break 11:00 – 11:30

Room B'

Session 2: 11:30-14:30

Chair: A. Quinquis, P. Viljamaa

Preference ranking and decisions based on fuzzy expert information

by: *Alexey L. Sadovski*

Determining Fuzzy Sets for Quantitative Attributes in Data Mining Problems

by: *Attila Gyenesei*

Fuzzy sliding mode controller design with variable sliding surface

by: *Hung-Ching Lu, Jiun-Cheng Chen*

A Fuzzy Logic - Based 'Evidence - Based' Medicine Best Reflects Understanding of Disease Processes and Physician Behavior

by: *Cathy M. Helgason, M.D. Thomas, H. Jobe M.D.*

Minimum-time Control of Satellite Attitude using a Fuzzy Logic Controller

by: *Suriya Thongchet, Suwat Kuntanapreeda*

Fuzziology and Social Complexity

by: *Vladimir Dimitrov, Bob Hodge, Robert Woog*

Comparison of identification methods based on fuzzy systems and an algebraic model

by: *Farida Benmakrouha, Christiane Hespel, Edouard Monnier*

Information Classification in Web Agents using Fuzzy Knowledge for Distance Evaluation

by: *David Camacho, Cesar Hernández, Jose Manuel Molina*

Adaptive Fuzzy Tracker for Fading CDMA Channel

by: *Antti Niemi*

Tuesday, February 13

Room B'

Session 3: 15:00-17:00

Chair: A. L. Sadovski, J. Garus

Fuzzy schedulability analysis of real time systems

by: *Asunción P. Cucala, Jose Villar*

Semantic analysis of fuzzy models, application to Yager model

by: *Jose Villar, Miguel Angel Sanz-Bobi*

Neuro-fuzzy based techniques for acoustic signal classification

by: *V.S.Kodogiannis*

Synthesis of Stable Takagi-Sugeno Fuzzy Systems

by: *Renata Pytelkova, Petr Husek*

Fuzzy control of underwater vehicle's motion

by: *Jerzy Garus, Zygmunt Kitowski*

Bookmaker Based on Soft Computing Methods

by: *Petr Husek, Renata Pytelkova*

Coffee Break 17:00 – 17:30

Room B'

Session 4: 17:30-19:30

Chair: Farida Benmakrouha, R. Pytelkova

Aggregation of Fuzzy Preferences as an Efficient Approach to the Computational Personality Type Classification Problem

by: *Ladislava Janku, Lenka Lhotska*

Smooth Curves and Fuzzy Systems

by: *John R. Rankin*

A Fuzzy Model for Change Intervals at Signalized Intersection

by: *J. Lin, K. Y. Kuo*

A Fuzzy Logic Model for Natural Language-based Risk Assessment

by: *Vincent Carr, Joe Tah*

Singular Value Based Model Approximation

by: *P. Baranyi A. Varkonyi-Koczy, P. Varlaki, P. Michelberger, R.. J. Patton*

Combining Fuzzy Sets And Genetic Algorithms For Improving Strategies In Game Playing

by: *Alessandro Cincotti, Vincenzo Cutello, Giuseppe Sorace*

Wednesday, February 14

Room B'

Session 5: 8:00-11:00

Chair: V. S. Kodogiannis, L. Sztandera

A new Mamdani-like fuzzy structure

by: *J.A.M. Felipe De Souza, L. Schnitman, T. Yoneyama*

Study of Fuzzy Logic Controllers (FLCs), Temporal Fuzzy Logic Controllers (TFLCs) and Faded Temporal Fuzzy Logic Controllers

by: *Manuel A. Gadeo Martos, Luis Magdalena*

An Application of Combined Classifiers to Remotely Sensed Images

by: *Rafael V. Santos, Marley M.B.R. Vellasco, Raul Q. Feitosa, Margareth Simões, Ricardo Tanscheit*

Fuzzy Clustering Method for Content-based Indexing

by: *K.S. Leung, I. King, H.Y. Yue*

On-line fuzzy pattern matching on sequences

by: *V. A. Oleshchuk*

Fuzzy Singletons

by: *Joe Barone*

Design of fuzzy systems for the modelling of explosive cutting process of plates using singular value decomposition

by: *Nader Nariman-zadeh, A. Darvizeh*

Exploitation of interclass variable redundancy for compact fuzzy rulesets

by: *Malcolm Wilson*

Resource-constrained project scheduling with fuzziness

by: *Hongqi Pan, Robert J. Willis, Chung-Hsing Yeh*

Coffee Break 11:00 – 11:30

Room B'

Plenary Lecture 3, Prof. Michio Sugeno, 11:30-12:30

“Everyday Language Computing”

Session 6: 12:30-14:10

Chair: N. Nariman-Zadeh, A. P. Cucala

Rule base updating method for fuzzy gain scheduling of PID controller

by: *Pauli Viljamaa, Heikki N. Koivo*

Measures of fuzziness: theory and applications

by: *Imre J. Rudas*

Separation of Linguistic Information Methodology in a Parallel Collaborative Structure – An Experimental Evaluation

by: *P. A. C. Salgado, P. A. F. N. A. Afonso, J. A. A. M. Castro*

Using fuzzy sets to analyze putative correlates between age, blood type, gender and/or race with bacterial infection

by: *Diana Cundell, Randi Silibovsky, Robin Sanders, Les Sztandera*

Recursive/Iterative Structure of Multiple Input Fuzzy Controllers with Unequally Spaced Triangular Membership Functions

by: *Mohammad Rohmanuddin, Houw-Liong The, Adang S. Ahmad, Yul Y. Nazaruddin*