

FSCS 2006
- Final Program -

Tuesday, September 26th

19:00 - Informal get-together (Location: Hotel Ratswaage, Ratswaageplatz 1-4)

Wednesday, September 27th

**10:00 Registration Opens (Room G29-301, Computer Science Building,
Location: Street Corner Walther-Rathenau-/ Gustav-Adolf-Str.)**

10:30 – 11:00 Opening Session (Lecture Hall G29-307, Computer Science Building)

11:00 – 12:30 EUSFLAT Meeting: Fuzzy Data Mining I (Chair: Eyke Hüllermeier)

- Improved Fuzzy Partitions for Clustering
Frank Höppner, Univ. of Applied Sciences Braunschweig/Wolfenbüttel
- Visualization of Fuzzy Rule Classifiers for Flight Duration Forecast
Frank Rehm, German Aerospace Center (DLR), Braunschweig
- On the role of Interpretability in Fuzzy Data Mining
Corrado Mencar, Giovanna Castellano, Anna M. Fanelli, University of Bari, Italy

12:30 – 14:00 Lunch Break

14:00 – 15:30 EUSFLAT Meeting: Fuzzy Data Mining II (Chair: Frank Höppner)

- Mining Fuzzy Rules with Different Semantics
F. Berzal, J.C. Cubero, D. Sanchez, J.M. Serrano, M.A. Vila
- Interpreting Data Mining Quantifiers in Mathematical Fuzzy Logic
Emilia Ylirinne, Esko Turunen, Tampere University of Technology, Finland
- Fuzzy Functional Dependencies in Multiargument Relationships
Krzysztof Myszkowski, Technical University of Lodz, Poland

15:30 – 16:00 Coffee Break

16:00 – 17:30 EUSFLAT Meeting: Classification (Chair: Uzay Kaymak)

- Obtaining Compact and still Accurate Linguistic Fuzzy Rule-Based Systems by Using Multi-Objective Genetic Algorithms
R. Alcalá, J. Alcalá-Fdez, M. J. Gacto, and F. Herrera, University of Granada, Spain
- A First Study on the Use of Fuzzy Rule Based Classification Systems for Problems with Imbalanced Data Sets
María José del Jesus, Alberto Fernández, Salvador García, Francisco Herrera, University of Jaén and University of Granada, Spain
- Classification via Fuzzy Preference Learning
Eyke Hüllermeier, University of Magdeburg

17:30 – 18:30 Snack Break

19:00 – 20:30 Otto-von-Guericke Lecture (Chair: R. Kruse)

(Location: Lecture Hall H3 in Building 50, Große Steinernetischstr. 6)

A New Frontier in Computation – Computation with Information Described in Natural Language

Prof. Dr. mult. Lotfi A. Zadeh, University of California, Berkeley

21:00 – Conference Dinner (Location: Hotel Ratswaage, Ratswaageplatz 1-4)

Thursday, September 28th

All presentation in G29-307 (Computer Science Building)

- 09:00 – 10:30 Intelligent Data Analysis** (Chair: Andreas Nürnberger)
- Next Generation DataAnalysis for Business Applications
Detlef Nauck, British Telecom, Ipswich
 - Item Planning with Graphical Models
Jörg Gebhardt, ISC-Gebhardt, Celle
 - Discovery Based on Ideas from Fuzzy Cluster Analysis
Frank Klawonn, Univ. of Applied Sciences Braunschweig/Wolfenbüttel
 - Resampling for Fuzzy Clustering
Christian Borgelt, European Center for Soft Computing, Oviedo
- 10:30 – 11:00 Coffee Break**
- 11:00 – 12:00 Invited Talk** (Chair: Andreas Nürnberger)
Fuzzy Sets and Systems - History and Future in Science
Rudolf Seising, University of Vienna
- 12:00 – 12:15 Ten Years of Fuzzy Systems Chair in Magdeburg**
Rudolf Kruse, University of Magdeburg
- 12:15 – 13:30 Lunch Break (Workshop Participants and FIN Members)**
- 13:30 – 15:00 AFN Annual Meeting: Visual Data Analysis** (Chair: Jens Strackeljan)
- On the Visualisation of the Soft Computing Knowledge Domain
Nees Jan van Eck, Ludo Waltman, Jan van den Berg, Uzay Kaymak, Erasmus University of Rotterdam
 - Fuzzy Clustering Techniques in Autonomous Sensor-Based Landing Systems
Bernd Korn, German Aerospace Center (DLR), Braunschweig
 - Interactivity Closes the Gap: Lessons Learned in an Automotive Industry Application
Axel Blumenstock, Jochen Hipp, Carsten Lanquillon, Rüdiger Wirth, Daimler Chrysler AG, Ulm
- 15:00 – 15:30 Coffee Break**
- 15:30 – 17:30 AFN Annual Meeting: Applications of Computational Intelligence**
(Chair: Detlef Nauck)
- Computer Vision Controlled Autonomous Mobile Working Machines
A. Stolpmann, Univ. of Applied Sciences Braunschweig/Wolfenbüttel
 - Neuro-Fuzzy-Modul for the prognosis and control of a power plant using renewable sources of energy
E. Förster, Delta Automation GmbH, Schkopau
 - Modelling Corporate Strategy with the Fuzzy Balanced Scorecard
Volker Nissen, Technical University of Ilmenau
 - Machine Learning Methods for Safety-Related Domains: Status and Perspectives
Clemens Otte, Sebastian Nusser, and Werner Hauptmann, Siemens AG, München
- 17:30 – 17:45 Closing Remarks**
- 18:00 – 20:00 AFN Board Meeting**