



# EUROFUSE WORKSHOP 09

## PREFERENCE MODELLING AND DECISION ANALYSIS

### PUBLIC UNIVERSITY OF NAVARRA

#### PAMPLONA, SPAIN · 16-18 SEPTEMBER 2009

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#### IMPORTANT DATES

18 April 2009

**Deadline for submission  
of extended abstracts**

15 May 2009

**Notification of acceptance**

15 July 2009

**Deadline for submission  
of camera-ready copies**

16-18 September 2009  
**Conference**

#### CALL FOR PAPERS

The Department of Automatic and Computation of the Public University of Navarra and EUROFUSE invite you to participate in the EUROFUSE Workshop Preference Modelling and Decision Analysis. This meeting will be held at the Public University of Navarra, 16-18 September, 2009.

#### AIMS & SCOPE

The goal of this workshop is to bring together researchers and practitioners developing and applying fuzzy techniques in preference modelling and decision making. The workshop is intended to establish the New Trends in the field and to encourage cooperation among the participants. The programme schedule will consist of 3 working days and a half day excursion to the historical sights in Pamplona. Each day will start with an invited lecture followed by a number of regular contributions; no parallel sessions will be scheduled. The number of participants foreseen is between 35 and 50. The Workshop will concentrate on, but not limited to:

#### Preference representation / modelling

- Preference learning
- Linear and non-linear utility representations
- Multiple criteria/attributes
- Qualitative decision theory
- Logical representations
- Linguistic preference modelling
- Relations between qualitative and quantitative approaches

#### Properties and semantics of preferences

- Preference composition, merging, and aggregation
- Incomplete or inconsistent preferences
- Reasoning about preferences
- Preference and choice

#### Applications of preferences to:

- Data-base querying and repair

#### · Classification and data mining

- Information retrieval
- Image processing
- Non-monotonic reasoning
- Recommendation systems and other e-commerce applications

#### Extensions of fuzzy sets

- Type-2 fuzzy sets
- L\* fuzzy sets
- Interval-valued fuzzy sets
- Fuzzy rough sets

#### Aggregation operators

- Decision making and aggregation operators
- Construction of fuzzy measures and AGOPs
- Linguistic aggregation operators
- Interval-valued aggregation operators

#### PAPER SUBMISSION

Extended abstracts should be prepared in the usual LATEX two-column style, the length should be aimed at 4 or 6 pages. The instructions are described in <http://eurofuse09.unavarra.es>

#### OTHER INFORMATION

Upon registration or paper submission, the participants will receive information about support, payment and accommodation.