Francisco Javier Fernandez

Short Curriculum Vitae

I. Profesional data

Affiliation: Public University of Navarra
Official address: Dept. Computer Science and Artificial Intelligence, Public University of Navarra, Navarra, Spain
Current position(s): Assistant Lecturer
Contact coordinates

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II. Education

BS (1999) - University of Zaragoza (Spain) – Mathematics
PhD (2003) - Public University of Navarra (Spain) - Mathematics

III. Publications

Summary:

No. of SCI journals papers: 8
No. of Book chapters: 2
Ph D theses advisoring: 0

Last 5 published (SCI) journals papers:

- E. Barrenechea, H. Bustince, M. Pagola, J. Fernandez, "Construction of interval-valued fuzzy entropy invariant by translations and scalings", Soft Computing, DOI 10.1007/s00500-009-0480-7 in press.

- H. Bustince, J. Fernandez, R. Mesiar, J. Montero y R. Orduna, "Overlap functions", Nonlinear Analysis, Theory, Methods & Applications, 72, 1488-1499, (2010).

- H. Bustince, M. Pagola, E. Barrenechea, J. Fernandez, P. Melo-Pinto, P. Couto, H.R. Tizhoosh, J. Montero, "Ignorance functions. An application to the calculation of the threshold in prostate ultrasound images", Fuzzy sets and systems, 161, 20-36, (2009).

- H. Bustince, E. Barrenechea, M. Pagola, J. Fernandez, "Interval-valued fuzzy sets constructed from matrices: Application to edge detection", Fuzzy sets and systems, 160, 1819-1840, (2009).

- H. Bustince, J. Fernandez, R. Mesiar, J. Montero y R. Orduna, "Overlap functions", Nonlinear Analysis, Theory, Methods & Applications, 72, 1488-1499, (2010).

- A. Blanchet, J. Dolbeault, M. Escobedo, J. Fernandez, "Asymptotic behaviour for small mass in the two-dimensional parabolic-elliptic Keller-Segel model", Journal of Mathematical Analysis and Applications, 361, 533-542, (2010).

IV. Research experience

Projects in which has participated:

- Title:Eurofuse workshop 2009. Preference modelling and decision analysis
  Project: TIN2009-05756
  Period, September 2009

- Title: Harmonic analysis and related problems
  Project: HPRN-CT-2001-00273-HARP
  Period, August 2002 – August 2006

- Title: Hyperbolic and Kinteic Equations
  Project: HPRN-CT # 2002-00282
  Period, August, 2002-July 2005.

- Title: Ecuaciones en derivadas parciales, dispersivas y de difusión
  Project: BFM 2001-0458
  Period: December 2001-December 2004

V. Other scientific activities

- Member of the organizing committee**.** Eurofuse 09 Workshop- Preference Modelling and decision analysis, September 16-18, 2009, Pamplona, Spain.

VI. Teaching experience

- Assistant Lecturer (since 2008-present). Dept. Automatic and Computer Science, E.T.S.I Industriales y de Telecomunicación, Public University of Navarra, Spain
- He has taught many different subjects in the Computer Science short (Bachelor) and long (Master) degrees (recently, Algorithmic, Artificial Intelligence, Computational Mathematics, Introduction to Computer Sciences).

VII. Areas of interest

Basic concepts of fuzzy sets: Implication operators, aggregation operators, fuzzy measures, fuzzy relations, etc. Extensions of fuzzy sets: Interval-valued fuzzy sets, Atanassov's intuitionistic fuzzy sets, rough fuzzy sets. Approximate reasoning. Fuzzy Image Processing. Applications of soft computing techniques, stability problems, unique continuation problems.