



CV date	25/03/2019
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First and Family name	Javier Montero		
ID number	50.283.832-J	Age	62
Researcher numbers	Researcher ID	H-1704-2015	
	Orcid code	0000-0001-8333-2155	
	Scopus	7103015773	

## Part A. PERSONAL INFORMATION

### A.1. Current position

Name of University/Institution	Universidad Complutense de Madrid		
Department	Statistics and Operational Research / Faculty of Mathematics		
Address and Country	Plaza de las Ciencias, 3 (Madrid 28040)		
Phone number	616868989	E-mail	<a href="mailto:monty@mat.ucm.es">monty@mat.ucm.es</a>
Current position	Catedrático de Universidad	From	9-11-209
Espec. cód. UNESCO	120304,1207		
Palabras clave	Inteligencia Artificial, Investigación Operativa		

### A.2. Education

Title	University	Year
Ph.D. Mathematics	Universidad Complutense de Madrid, Spain	1982
Licenciatura Matemáticas	Universidad Complutense de Madrid, Spain	1978

### A.3. JCR articles, h Index, thesis supervised...

- Number of 6-years research periods approved ("sexenios"): 6 (all consecutive since 1-1-1980 till 31-12-2015).
- Number of directed Ph.D. thesis: 7 (3 of them acknowledged as "*Premio Extraordinario*").
- Publicaciones totales en primer cuartil (Q1): 73.
- Scopus: 158 papers, h-index: 25.
- Google Scholar: h-index: 33 (22 since 2014). 4117 citations (1965 since 2014).
- Web of Science: 143 papers, h-index 20, 1446 citations, average 45'19 cites per year; 79 JCR papers, JCR h-index 19, 1340 JCR citations, average 16'96 JCR citations per paper; since 2013: 13 JCR publications, JCR h-index 7, 111 citations, average 8'54 citations per paper.

## Part B. CV SUMMARY (max. 3500 characters, including spaces)

Javier Montero is Full Professor at the Department of Statistics and Operational Research, Faculty of Mathematics, Complutense University of Madrid (Spain). He holds a Ph.D. in Mathematics from Complutense University since 1982 and has been leading competitive research projects since 1987. He is author of more than 160 research papers in refereed journals such as Approximate Reasoning, Computational Intelligent Systems, Computer and Operational Research, European Journal of Operational Research, Fuzzy Sets and Systems, General Systems, Human and Ecological Risk Assessment, IEEE Transactions on Neural Networks, IEEE Transactions on Fuzzy Systems, IEEE Transactions on Systems, Man and Cybernetics, IEEE Transactions on Industrial Informatics, Information Sciences, Intelligent Systems, Journal of Algorithms, Journal of Intelligent and Fuzzy Systems, Knowledge Based Systems, Kybernetes, Kybernetika, Mathware, Multiple Valued Logic, New Mathematics and Natural Computation, Non Linear Analysis, Omega, OR Spectrum, Pure and Applied Geophysics, Remote Sensing, Soft Computing, Top, and Uncertainty, Fuzziness and

Knowledge-Based Systems. He has published a similar number of refereed papers as book chapters. His research interests are in Aggregation Operators, Preference Representation, Multicriteria Decision Aid, Group Decision Making, System Reliability Theory, and Classification problems, mainly viewed as application of Fuzzy Sets Theory. In addition, he has published more than 120 articles as book chapters and conference proceeding subject to peer reviewing (for details, see [www.researchgate.net/profile/Javier\\_Montero3](http://www.researchgate.net/profile/Javier_Montero3) and [orcid.org/0000-0001-8333-2155](http://orcid.org/0000-0001-8333-2155)). He has been scientific visitor in more than 10 Universities. He has been acknowledged as *IFSA Fellow* por la *International Fuzzy Systems Association*, and currently is the President of this internacional association.

Among the main scientific achievements we stress the relevance of:

- Positive version of impossibility Arrow's theorem based upon fuzzy preferences, by allowing degrees of membership for rationality and ethics. Axiomatization of rationality measures.
- Crisp characterization of Orlovski's fuzzy set of non-dominated alternatives, showing in addition the inconsistency of some standard fuzzy preferences. Translation of dimension theory to fuzzy preferences, allowing the decomposition of fuzzy preferences and proposing the first algorithm in literature to evaluate crisp dimension. Proposal of a bipolar preference-aversion preference model.
- Deep revision of classical assumptions for aggregation functions. Proposal and development of the concepts of recursive rules and computational rules, put in connection with migrativity and the aggregation of bags. Original definitions for consistency and stability of aggregation rules.
- Proposal of an alternative model for classification with a family of key indices to allow the user hints about how such a classification model can be improved. Explanation of analogies and differences between some related conflictive bipolar models from a new perspective: *paired fuzzy sets*.
- Design of specific algorithms for segmentation and image processing, stressing the structure of the image and measuring quality from a multicriteria perspective. Translation to social network analysis. Application to decision aid is several frameworks.

## Part C. RELEVANT MERITS (last 10 years)

### C.1. Publications (including books, last 10 years, up to 10 papers)

- B. Vitoriano, T. Ortuño, G. Tirado, J. Montero (2011): A multi-criteria optimization model for humanitarian aid distribution. **JOURNAL OF GLOBAL OPTIMIZATION** 51:189-208. 211 citations in Google Scholar. SCI(2011): 1.196 (Q1 53/245 Mathematics, Applied).
- H. Bustince, E. Barrenechea, M. Pagola, J. Fernández, Z. Xu, B. Bedregal, J. Montero, H. Hagrass, F. Herrera, B. De Baets (2016): A historical account of types of fuzzy sets and their relationships. **IEEE TRANSACTIONS ON FUZZY SYSTEMS** 24:179-194. 187 citations in Google Scholar. SCI(2016): 7.671 (Q1 4/134 Engineering, Electrical and Electronic).
- H. Bustince, J. Fernández, R. Mesiar, J. Montero (2010): Overlap functions. **NONLINEAR ANALYSIS-THEORY METHODS AND APPLICATIONS** 72:1488-1499. 135 citations in Google Scholar. SCI(2010): 1'279 (26/279 Mathematics, Q1).
- H. Bustince, M. Pagola, E. Barrenechea, J. Fernández, Melo-Pinto, P. Couto, H.R. Tizhoosh, J. Montero (2010): Ignorance functions, an application to the calculation of the threshold in prostate ultrasound images. **FUZZY SETS AND SYSTEMS** 161:20-36. 114 citations in Google Scholar. SCI(2010): 1'875 (19/236 Mathematics, Applied, Q1).
- H. Bustince, J. Montero, R. Mesiar (2009): Migrativity of aggregation operators. **FUZZY SETS AND SYSTEMS** 160:766-777. 71 citations in Google Scholar. SCI(2009): 2'138 (14/92 Computer Sciences, Theory & Methods, Q1).
- H. Bustince, T. Calvo, B. de Baets, J. Fodor, R. Mesiar, J. Montero, D. Paternain, A. Pradera (2010): A class of aggregation functions encompassing two-dimensional OWA operators. **INFORMATION SCIENCES** 180:1977-1989. 60 citations in Google Scholar. SCI(2010): 2.836 10/128 Computer Science, Information Systems, Q1).

- J.T. Rodríguez, B. Vitoriano, J.Montero (2012): A general methodology for inductive fuzzy-rules building and its application to natural disaster management. **COMPUTERS AND OPERATIONS RESEARCH** 39:853-873. 55 citations in Google Scholar. SCI(2012): 1.909 (10/79 Operations Research & Management Science, Q1).
- D. Gómez, J. Yáñez, C. Guada, J.T. Rodríguez, J. Montero, E. Zarrazola (2015): Fuzzy image segmentation based upon hierarchical clustering. **KNOWLEDGE-BASED SYSTEMS** 87:26-37. 34 citations in Google Scholar. SCI(2015): 3.325 (Q1 17/130 Computer Science, Artificial Intelligence).
- K.J. Cios, J.H. Shin, D. Smith, W. Swiercz, T. Rickard, J. Montero, L. Kurgan (2010): Towards unsupervised recognition of objects with networks of spiking neurons. **IEEE TRANSACTIONS ON NEURAL NETWORKS** 21:1697-1709. 27 citations in Google Scholar. SCI(2010): 2.633 (Q1, 3/48 Computer Science, Hardware & Architecture).
- J. Lu, G. Zhang, J. Montero & L. Garmendia: Multi-follower tri-level decision models. **IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS** 8:974-985 (2012). 17 citations in Google Scholar. SCI(2012): 3.381 (1/44 Engineering, Industrial, Q1).

## C.2. Research projects and grants (last 10 years)

- Title: Techniques for obtaining, processing and representation of fuzzy information for decision making.  
Reference: TIN2015-66471-P.  
Funded by: Government of Spain.  
Call: Proyectos de Investigación. Subprograma de Proyectos de Investigación Fundamental No Orientada.  
Principal investigator: Dr. Javier Montero, Dr. Daniel Gómez (Complutense University).  
Dates: from 1-01-2016 to 31-12-2018.  
Amount: 57.300 euros.
- Title: Concepts and applications of intelligent systems (CASI-CAM-CM).  
Reference: S2013/ICE-2845.  
Funded by: Government of Madrid.  
Call: Convocatoria de programas de I+D en tecnología 2013.  
Principal Investigator: Anibal R. Figueiras Vidal (Carlos III University).  
Dates: from 1-10-2014 to 30-09-2018.  
Amount: 650.095 Euros.  
Participation: Javier Montero, Coordinator at Complutense University.
- Title: Decision aid with fuzzy information and multiple criteria. Application to disaster management.  
Reference: TIN2012-32482.  
Funded by: Government of Spain.  
Call: Proyectos de Investigación. Subprograma de Proyectos de Investigación Fundamental No Orientada.  
Principal investigator: Javier Montero (Complutense University).  
Dates: from 01-01-2013 to 31-12-2015.  
Amount: 44.940 Euros.
- Title: Building decision aid systems under linguistic uncertainty.  
Reference: TIN2009-07901.  
Funded by: Government of Spain.  
Call: Proyectos de Investigación. Subprograma de Proyectos de Investigación Fundamental No Orientada.  
Principal investigator: Javier Montero (Complutense University).  
Dates: from 01-1-2010 to 31-12-2012.  
Amount: 147.000 Euros.  
Participation: Principal investigator.

## C.3. Contracts (last 10 years)

- Reference: Valoration of law compliance (Ciberderecho, S.L.)  
Contract amount: 12.000 euro (from 1-1-2016 to 31-3-2016)  
Participation: part of the research team (Javier Yáñez, P.I.)
- Reference: Youth and gender equality and violence (Government of Spain)

- Contract amount: 12.980 euro (from 1-10-2010 to 30-09-2011)  
Participación: local coordinator (M.J. Díaz-Aguado, P.I.)
- Reference: Valoration law compliance (Ciberderecho, S.L.)  
Contract amount: 10.000 euro (from 1-2-2017 to 31-7-2017)  
Participation: part of the research team (Javier Yáñez, P.I.)
  - Reference: Management of social networks with big data techniques (Centro de Investigaciones Sociológicas, CIS)  
Contract amount: 17.990 euro (from 01-02-2018 to 31-01-2019)  
Participation: Principal investigator.
  - Reference: TIC índices, social and network analysis (Observatorio Telecomunicaciones y Sociedad de la Información, ONTSI)  
Contract amount: 17.000 euro (from 01-02-2018 to 31-01-2019)  
Participation: Principal investigator.

## C.4. Awards (last 10 years)

ISKE APPRECIATION AWARD (Xiamen, China, 2008). ISKE APPRECIATION AWARD (Hasselt, Bélgica, 2009). FLINS SILVER CHAIR (Chengdu, China, 2010). Best Paper Award at the IFSA'11 congress (Surabaya, Indonesia, 2011). Best Poster Award at the ISKE'11 congress (Shanghai, China, 2011). 2011 EXPRESSION OF APPRECIATION (Shota Rustaveli National Foundation (Georgia). FSTA MEDAL (Liptovsky Jan, Slovak Republic, 2016). *IFSA Fellow* (2017).

## C.5. Reviewer

Javier Montero has served as reviewer for more than 70 scientific journals and more than 30 conference series.

## C.6. Participation in other competitive projects

Javier Montero has participated in more than 10 contracts with the private or public sector, more than 25 competitive projects and more than 20 competitive research programs (such as research networks, organization of conferences, visitor programs, etc.), mostly as their Principal Investigator.

## C.7. Participation in scientific committees

Javier Montero has served the scientific community as area editor of more than 10 scientific journals and has been co-editor of more than 20 journal special issues or books (among them, a Springer book co-edited in 2007 has received 225 citations according to Google Scholar). He has been member of more than 100 conference program committees, belongs to several conference steering committees (FLINS, ISKE, ESTYLF and FuzzyMAD), and has been co-chair of more than 25 conferences. He has organized more than 25 special sessions or round tables at conferences, and has been chair more than 50 conference sessions.

## C.8. Institutional responsibilities

Javier Montero has been Dean of the Faculty of Mathematics at Complutense University and Vice-Rector of this University, with more than 20 years in different academic management positions. Javier Montero currently is Head of the Department of Statistics and Operational Research at Complutense University.

## C.9. Membership of scientific societies

Javier Montero has been President of the European Association for *Fuzzy Logic and Technology* (EUSFLAT) and Vice-President of the *International Fuzzy Systems Association* (IFSA). Javier Montero is currently President of IFSA.

## ANNEX: PUBLICATIONS

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### PUBLICACIONES/PUBLICATIONS

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005. *Authors: J. Montero*  
*Tilte: Un tratamiento axiomático de las decisiones colectivas*  
*Reference: ESTADISTICA ESPAÑOLA 103, 93-100(1984) / España*
013. *Authors: J. Montero*  
*Tilte: Álgebras difusas*  
*Reference: TRABAJOS DE ESTADISTICA 36,97-109 (1985) / España*
014. *Authors: J. Montero*  
*Tilte: A note on Fung-Fu's theorem*  
*Reference: FUZZY SETS AND SYSTEMS 13, 259-269 (1985)/ Holanda*  
*SCI(1997): 0.346*
015. *Authors: J. Tejada & J. Montero*  
*Tilte: Mixturas nítidamente dominadas*  
*Reference: ESTADISTICA ESPAÑOLA 109, 83-90 (1985) / España*
019. *Authors: J. Montero*  
*Tilte: Comprehensive fuzziness*  
*Reference: FUZZY SETS AND SYSTEMS 20, 79-86 (1986)/Holanda*  
*SCI(1997): 0.346*
020. *Authors: J. Montero & J. Tejada*  
*Tilte: Some problems on the definition of*  
*fuzzy preference relation*  
*Reference: FUZZY SETS AND SYSTEMS 20, 45-53, (1986) / Holanda*  
*SCI(1997): 0.346*
021. *Authors: J. Montero*  
*Tilte: The majority rule in a fuzzy environment*  
*Reference: BUSEFAL 25, 107-112 (1986) / Francia*
022. *Authors: J. Montero*  
*Tilte: Measuring the rationality of a fuzzy preference relation*  
*Reference: BUSEFAL 26, 75-82 (1986) / Francia*
023. *Authors: J. Montero*  
*Tilte: Agregación de criterios probabilísticos*  
*Reference: ESTADISTICA ESPAÑOLA 110, 23-32 (1986) / España*
024. *Authors: J. Montero & J. Tejada*  
*Tilte: Sobre la transitividad difusa*  
*Reference: ESTADISTICA ESPAÑOLA 111, 49-58 (1986) / España*
026. *Authors: J. Montero & J. Tejada*  
*Tilte: Fuzzy preferences in decision making*  
*Reference: LECTURE NOTES IN COMP.SCI. 286; pp. 144-150 (1987)*  
*Uncertainty in knowledge-based systems*  
*B. Bouchon & R. Yager, eds. (Springer, Berlin)*  
*ISBN: 3-540-10579-8*  
*SCI(1999): 0.872*
027. *Authors: J. Montero*  
*Tilte: Arrow's theorem under fuzzy rationality*  
*Reference: BEHAVIORAL SCIENCE 32, 267-273 (1987) / USA*

(now Systems Research and Behavioral Science)

DOI: 10.1002/bs.3830320403

**SCI(1997): 0.422**

028. *Authors: J. Montero*  
*Tilte: Extensive fuzziness*  
*Reference: FUZZY SETS AND SYSTEMS 21, 201-209 (1987) / Holanda*  
**SCI(1997): 0.346**
029. *Authors: J. Montero*  
*Tilte: Social welfare functions in a fuzzy environment*  
*Reference: KYBERNETES 16, 241-245 (1987) / Gran Bretaña*  
**SCI(1997): 0.172**
033. *Authors: J. Montero*  
*Tilte: Fuzzy extended preferences: randomized extension*  
*Reference: BUSEFAL 33, 134-142 (1988) / Francia*
034. *Authors: J. Montero*  
*Tilte: Fuzzy extended preferences: fuzzified extension*  
*Reference: BUSEFAL 34, 133-140 (1988) / Francia*
035. *Authors: J. Montero*  
*Tilte: Aggregation of fuzzy opinions in a non-homogeneous group*  
*Reference: FUZZY SETS AND SYSTEMS 25, 15-20 (1988) / Holanda*  
**SCI(1997): 0.346**
036. *Authors: J. Montero & J. Tejada*  
*Tilte: A n&s condition for the existence of Orlovsky's choice set*  
*Reference: FUZZY SETS AND SYSTEMS 26, 121-125 (1988) / Holanda*  
**SCI(1997): 0.346**
037. *Authors: J. Montero*  
*Tilte: Fuzzy coherent systems*  
*Reference: KYBERNETES 17, 28-33 (1988) / Gran Bretaña*  
**SCI(1997): 0.172**
039. *Authors: F. Parra & J. Montero*  
*Tilte: A cybernetic approach to reduce unemployment in Spain*  
*Reference: KYBERNETES 18, 39-47 (1989) / Gran Bretaña*  
**SCI(1997): 0.172**
045. *Authors: J. Montero, invited contribution*  
*Tilte: Single-peakedness in weighted aggregation of fuzzy opinions in a fuzzy group*  
*Reference: THEORY AND DECISION LIBRARY (B) 18, 163-171 (1990)*  
*Multiperson Decision Making Models*  
*J. Kacprzyk & M. Fedrizzi, eds.*  
*(KLUWER, Dordrecht), ISBN: 0-7923-0884-0*
046. *Authors: J. Montero, J. Tejada & J. Yáñez*  
*Tilte: Structural properties of continuum systems*  
*Reference: EUR. JOUR. OPER. RES. 45, 231-240 (1990) / Holanda*  
**SCI(1997): 0.413**
049. *Authors: A. Pearman, J. Montero & J. Tejada*  
*Tilte: Fuzzy multicriteria techniques:*  
*an application to transport planning*  
*Reference: LECTURE NOTES IN COMP. SCI. 521, pp. 510-519 (1991)*  
*Uncertainty in Knowledge Bases*  
*B. Bouchon-Meunier, R.R. Yager & L.A. Zadeh, eds.*  
*(Springer-Verlag, Berlin), ISBN: 3-540-5436-5*  
**SCI(1999): 0.872**
055. *Authors: V. Cutello & J. Montero*

- Tilte: A model for amalgamation in group decision making*  
*Reference: NASA CONF. PUB. 10112, vol. 1. (1992), pp. 215-223*  
*J. Villareal, ed.*  
*(NASA, L.B. Johnson Space Center, Houston, Texas /USA)*
060. *Authors: J. Montero, J. Tejada & J. Yáñez*  
*Tilte: Multivalued Continuum Systems*  
*Reference: EUR. JOUR. OPER. RES. 69, pp. 55-64 (1993) / Holanda*  
*SCI(1997): 0.448*
061. *Authors: J. Montero*  
*Tilte: Observable Structure Functions*  
*Reference: KYBERNETES 22, pp. 36-44 (1993) / U.K.*  
*SCI(1997): 0.172*
062. *Authors: V. Cutello & J. Montero*  
*Tilte: A characterization of rational amalgamation operations*  
*Reference: INT. J. APPROXIMATE REASONING 8, 325-344 (1993) /USA*  
*SCI(1997): 0.542*
063. *Authors: J. Montero*  
*Tilte: Reliability Bounds for Multicriteria Systems*  
*Reference: J. OPERATIONAL RES. SOC. 44, 1025-1034 (1993) /U.K.*  
*SCI(1997): 0.525*
064. *Authors: J. Montero & J. Yáñez*  
*Tilte: Barlow-Wu continuum systems: a discussion on the model*  
*Reference: TOP 1, 117-125 (1993) /España*  
*SCI(2008): 0.694*
069. *Authors: V. Cutello & J. Montero*  
*Tilte: Fuzzy rationality measures*  
*Reference: FUZZY SETS AND SYSTEMS 62, 39-44 (1994) /Holanda*  
*SCI(1997): 0.346*
070. *Authors: V. Cutello & J. Montero*  
*Tilte: Hierarchies of intensity preference aggregations*  
*Reference: INT.J. APPROXIMATE REASONING 10, 123-133 (1994)/USA*  
*SCI(1997): 0.542*
071. *Authors: J. Montero, J. Tejada & J. Yáñez*  
*Tilte: General structure functions*  
*Reference: KYBERNETES 23, 13-22 (1994) / U.K.*  
*SCI(1997): 0.172*
072. *Authors: V. Cutello & J. Montero*  
*Tilte: Hierarchies of aggregation operators*  
*Reference: INT.J. INTELLIGENT SYSTEMS 9, 1025-1045 (1994) /USA*  
*SCI(1997): 0.379*
073. *Authors: J. Montero*  
*Tilte: Rational aggregation rules*  
*Reference: FUZZY SETS AND SYSTEMS 62, 267-276 (1994) /Holanda*  
*SCI(1997): 0.346*
080. *Authors: J. Montero, B. Cappelle & E.E. Kerre, inv. paper*  
*Tilte: The usefulness of complete lattices in reliability theory*  
*Reference: STUDIES IN FUZZINESS AND SOFT COMP. 4,95-110 (1995)*  
*Reliability and Safety Analysis under Fuzziness*  
*T. Onisawa & J. Kacprzyk, Eds.*  
*(Physica-Verlag, Heidelberg), ISBN: 3-7908-0837-7*
081. *Authors: V. Cutello & J. Montero*  
*Tilte: The computational problem of using OWA operators*  
*Reference: ADVANCES IN FUZZY SYSTEMS 8, 166-172 (1995)*

*Fuzzy Logic and Soft Computing*  
B. Bouchon-Meunier, R.R. Yager & L.A. Zadeh, Eds.  
(World Scientific, Singapore), ISBN: 981-02-2345-5

083. **Authors:** J. Montero, J. Tejada & V. Cutello  
**Tilte:** *Fuzzy preferences in Knowledge-based systems*  
**Reference:** *ADVANCES IN FUZZY SYSTEMS 8, 316-321 (1995)*  
*Foundations and Applications of Possibility Theory,*  
G. de Cooman, D. Ruan & E.E. Kerre, eds.  
(World Scientific, Singapore), ISBN: 981-02-2289-0
084. **Authors:** J. Montero, A. Pearman & J. Tejada  
**Tilte:** *Fuzzy multicriteria decision support for budget allocation in the transport sector*  
**Reference:** *TOP 3, 47-68 (1995) / España*  
**SCI(2008): 0.694**
085. **Authors:** V. Cutello & J. Montero  
**Tilte:** *Hierarchical aggregation of OWA operators: basic measures and related computational problems*  
**Reference:** *UNCERT.,FUZZ.AND KNOW.-BASED SYST.3, 17-26 (1995)/Fr*  
**SCI(1997): 0.187**
093. **Authors:** V. Cutello, J. Montero & J. Yáñez  
**Tilte:** *Structure functions with fuzzy states*  
**Reference:** *FUZZY SETS AND SYSTEMS 82, 189-202 (1996) / Holanda*  
**SCI(1997): 0.346**
098. **Authors:** V. Cutello & J. Montero  
**Tilte:** *Equivalence and compositions of fuzzy rationality measures*  
**Reference:** *FUZZY SETS AND SYSTEMS 85, 31-43 (1997) / Holanda*  
**SCI(1997): 0.346**
099. **Authors:** J. Montero, J. Tejada & V. Cutello  
**Tilte:** *A general model for deriving preference structures from data*  
**Reference:** *EUR. JOUR. OPER. RES. 98, 98-110 (1997) / Holanda*  
**SCI(1997): 0.448**
101. **Authors:** V. Cutello & J. Montero  
**Tilte:** *Aggregation operators for fuzzy rationality measures*  
**Reference:** *STUDIES IN FUZZINESS AND SOFT COMP.12,98-105 (1998)*  
*Aggregation and Fusion of Imperfect Information*  
B. Bouchon-Meunier, Ed.  
(Physica Verlag, Heidelberg), ISBN: 3-7908-1048-7
104. **Authors:** V. Cutello & J. Montero  
**Tilte:** *Non deterministic aggregation operators and systems*  
**Reference:** *INT. J. INTELLIGENT SYSTEMS 13, 181-192 (1998) /USA*  
**SCI(1998): 0.354**
105. **Authors:** J. Yáñez & J. Montero  
**Tilte:** *A poset dimensión algorithm*  
**Reference:** *JOURNAL OF ALGORITHMS 30, 185-208 (1999) /USA*  
**SCI(1999): 0.468**
106. **Authors:** V. Cutello & J. Montero  
**Tilte:** *Recursive connective rules*  
**Reference:** *INT. J. INTELLIGENT SYSTEMS 14, 3-20 (1999) /USA*  
**SCI(1999): 0.410**
107. **Authors:** A. del Amo, J. Montero & G. Biging  
**Tilte:** *Classifying pixels by means of fuzzy relations*  
**Reference:** *INT. J. GENERAL SYSTEMS 29, 605-621 (2000) /USA*  
**SCI(2000): 0.268**



110. **Authors:** J. Montero, A. del Amo, & E. Molina, invited contribution  
**Tilte:** Additive recursive rules  
**Reference:** *STUDIES IN FUZZINESS AND SOFT COMP.* 51,75-88 (2000)  
*Preferences and Decisions under Incomplete Knowledge*  
J. Fodor & B. De Baets & P. Perny, Eds.  
(Physica-Verlag, Heidelberg)  
ISBN: 3-7908-1303-6 (2000)
111. **Authors:** V. Cutello & J. Montero, invited contribution  
**Tilte:** An extension of the axioms of utility theory based on fuzzy rationality measures  
**Reference:** *STUDIES IN FUZZINESS AND SOFT COMP.* 51,33-50 (2000)  
*Preferences and Decisions under Incomplete Knowledge*  
J. Fodor & B. De Baets & P. Perny, Eds.  
(Physica-Verlag, Heidelberg), ISBN: 3-7908-1303-6
113. **Authors:** A. Amo, J. Montero & E. Molina  
**Tilte:** Representation of consistent recursive rules  
**Reference:** *EUR. JOUR. OPER. RES.* 130, 29-53 (2001) /Holanda  
**SCI(2001):** 0.494
117. **Authors:** A. Amo, D. Gómez, J. Montero & G. Biging  
**Tilte:** Relevance and redundancy in fuzzy classification systems  
**Reference:** *MATHWARE AND SOFT COMPUTING* 8, 203-216 (2001) /Spain
118. **Authors:** A. Amo, J. Montero, A. Fernández, M. López, J. Tordesillas & G. Biging  
**Tilte:** Spectral fuzzy classification: an application  
**Reference:** *IEEE TRANS.SYST.MAN AND CYB. C* 32, 42-48 (2002)/USA  
**SCI(2002):** 0.288
119. **Authors:** J. González-Pachón, D. Gómez, J. Montero & J. Yáñez  
**Tilte:** Soft dimension theory  
**Reference:** *FUZZY SETS AND SYSTEMS* 137, 137-149 (2003) / Holanda  
**SCI(2003):** 0.577
123. **Authors:** J. González-Pachón, D. Gómez, J. Montero & J. Yáñez  
**Tilte:** Searching for the dimension of valued preference relations  
**Reference:** *INT.J. APPROXIMATE REASONING* 33, 133-157 (2003) /USA  
**SCI(2003):** 0.319
124. **Authors:** A. Amo, D. Gómez, J. Montero  
**Tilte:** Spectral fuzzy classification: a supervised approach  
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