


CURRICULUM VITAE

Dr. Luis Martínez

PERSONAL INFORMATION

First and Family name	LUIS MARTINEZ LOPEZ			
Social Security, Passport, ID number	26018033L	Age	51	
Researcher codes	WoS Researcher ID (*)	A-1746-2009		
	SCOPUS Author ID(*)	56215039400		
	Open Researcher and Contributor ID (ORCID) **	0000-0003-4245-8813		

Current position

Name of University	University of Jaén		
Department	Computer Science		
Address and Country	Campus Las Lagunillas s/n, Jaén, 23071, Spain		
Phone number	+34953211902	E-mail	martin@ujaen.es
Current position	Full Professor	From	2010
Key words	Fuzzy systems, Decision Making, Computing with works		

Abstract

Luis Martínez was born in 1970. He received the M.Sc. and Ph.D. degrees in Computer Sciences, both from the University of Granada, Spain, in 1993 and 1999, respectively. His current research interests are fuzzy decision making, computational intelligence, machine learning, fuzzy systems, decision support systems, computing with words and recommender systems.

He co-edited 18 journal special issues on fuzzy preference modelling, computational intelligence, linguistic decision making and fuzzy sets theory and has been main researcher in 16 R&D projects, also has published more than 190 papers in journals indexed by the SCI as well as 36 book chapters and more than 200 contributions in National and International Conferences related to his areas. He is member of the European Society for Fuzzy Logic and Technology, IEEE Senior member. Co-Editor in Chief of the of the International Journal of Computational Intelligence Systems and an Associated Editor of the journals IEEE Transactions on Fuzzy Systems, Knowledge Based-Systems, Information Fusion among others.

He received twice the IEEE Transactions on Fuzzy Systems Outstanding Paper Award 2008 and 2012 (bestowed in 2011 and 2015 respectively). And he is Visiting Professor in University of Technology Sydney, University of Portsmouth Isambard Kingdom Brunel Fellowship Scheme), in the Wuhan University of Technology (Chutian Scholar), Guest Professor in the Southwest Jiaotong University and Honourable professor in Xihua University both in Chengdu (China). Eventually, he has been appointed as *Highly Cited Researcher* 2017-2021 in Computer Science according to the Web of Science. He has the following international rankings:

<p>Publications</p> <p>191</p> <p>Total</p> <p>From 1998 to 2021</p>	<p>Citing Articles</p> <p>6,234 Analyze</p> <p>Total</p> <p>6,077 Analyze</p> <p>Without self-citations</p>	<p>Times Cited</p> <p>13,637</p> <p>Total</p> <p>12,606</p> <p>Without self-citations</p>	<p>71.4</p> <p>Average per item</p>	<p>49</p> <p>H-Index</p>
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ACADEMIC BACKGROUND

	<i>UNIVERSITY</i>	<i>DATE</i>
B. Eng. Computer Science	School of Computer Science University of Granada	10/09/1991
Ms.Eng. Computer Science	School of Computer Science University of Granada	28/07/1993

Ph.D.: Computer Science, UNIVERSITY OF GRANADA

Title: A new linguistic representation model base on 2-tuple for aggregating linguistic preferences

Date: 29th October 1999

ACADEMIC POSITIONS and CONTACT DETAILS

Current Position: Full Professor

University of Jaén

School of Engineering

Department of Computer Sciences

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Previous Positions

Asisstant Professor	University of Jaén	5/11/1996
Associate Professor	University of Jaén	1/4/2000

JOURNAL EDITORIAL ACTIVITIES

- **Editor in Chief International Journal of Computational Intelligent Systems**
ISSN: 1875-6891 (print version);ISSN: 1875-6883 (electronic version)
Editorial: Atlantis Press
Indexing: JCR Sciences Edition since Nov 2008
Indexing: JCR Sciences Edition (2013) Impact Factor 2.15
Since September 2011
- **Editor in Chief Information (Section AI)**
ISSN: 2078-2489
Editorial: MDPI
Since December 2019
- **Associate Editor of IEEE Transactions on Fuzzy Systems**
ISSN: 1063-6706
Editorial: ELSEVIER
Indexing: JCR Sciences Edition (2013) Impact Factor 8.759
Since January 2015 to December 2020
- **Associate Editor of Information Fusion**
ISSN: 1562-2479
Editorial: ELSEVIER
Indexing: JCR Sciences Edition (2013) Impact Factor 10.716
Since September 2013
- **Associate Editor of Knowledge Based Systems**
ISSN: 0950-7051
Editorial: ELSEVIER
Indexing: JCR Sciences Edition (2013) Impact Factor 5.101
Since December 2019
- **Associate Editor of the International Journal of Fuzzy Systems**
ISSN: 1562-2479
Editorial: TAIWAN FUZZY SYSTEMS ASSOC
Indexing: JCR Sciences Edition (2013) Impact Factor 2.891
Since June 2013
- **Associate Editor of the Journal of Intelligent & Fuzzy Systems**
ISSN: 1064-1246
Editorial: IOS Press
Indexing: JCR Sciences Edition (2013) Impact Factor 1.714
Since October 2013
- **Associate Editor of the Scientific World Journal**
ISSN: 1537-744X
Editorial: HINDAWI PUBLISHING CORPORATION
Indexing: JCR Sciences Edition (2012) Impact Factor 1.730
Since July 2013 to December 2016
- **Board member of the Journal of Universal Computer Sciences**
ISSN: 0948-695x; ISSN: 0948-6968 (Online Edition)
Editorial: Graz University of technology, Institute of Inf. Systems computer media
Indexing: JCR Sciences Edition (2013) Impact Factor 0.401
Category: Computer Science and Software Engineering
Since July 2007
- **Board member of APPLIED INTELLIGENCE: The International Journal of Artificial Intelligence, Neural Networks, and Complex-Problem Solving Technologies**
ISSN: 0924-669X
Editorial: Springer
Indexing: JCR Sciences Edition (2016) Impact Factor 2.121
Since March 2017
- **Board member of Human-centric Computing and Information Sciences**
ISSN: 2192-1962
Editorial: Springer
Since December 2016

PATENTS

1. Antonio Miguel Sánchez Solana; Luis Martínez López; José Ramón Balsas Almagro; M^a Dolores López de la Torre. Procedure and System for collecting, classification and selection of olive oil. ES 2 341 694 B1. 13/06/2011.
2. Antonio Miguel Sánchez Solana; Luis Martínez López; José Ramón Balsas Almagro; Luis Gonzaga Pérez Cordon; Antonio Jesús Rivera Rivas; José Manuel Fuertes García; Manuel José Lucena López; Francisco José Esteban Ruiz; María Dolores López de la Torre; Alfonso Parras Martín; Gloria Esteban De La Rosa; Luis Santiago Marcos; Juan Pedro Zafra Milla; Arturo García Sanz; Antonio Jesús Santaella Macías. *Automatic Classification systems for olives*. ES 2 369 186 B1. 10/10/2012.
3. Macarena Espinilla Estévez; Luis Martínez López; Francisco Javier Estrella Liébana. JA-200-13. Software Registration: **FLINTSTONES**. *A software suite for solving linguistic decision making problems*

AWARDS AND HONOURS

- **IEEE Transactions on Fuzzy Systems Outstanding 2008 Paper Award** (bestowed 2011)
- **IEEE Transactions on Fuzzy Systems Outstanding 2012 Paper Award** (bestowed 2015)
- **IFSA Fellow 2021**
- **Guest Professor** en la Southwest Jiaotong University, China
- **Guest Professor** en la Universidad Tecnológica de Sydney (UTS), Australia
- **Honourable Professor** en Xihua University, China.
- **Chutian Chair Professor** of Hebei Province, China (2016-2019)
- **Isambard Kingdom Brunel Fellowship** at Portsmouth University 2017
- **Highly cited researcher 2017-2020** (<https://clarivate.com/hcr/>)
- **Da Ruan's Award** in FLINS Conference 2016.
- **University of Granada's Award to Excellence Research Work 2011**
- **Best Paper Award in the IEEE 14th International Conference on Intelligent Systems and Knowledge Engineering.**
- **Best Journal Paper Award in the 11th Conference of the European Society for Fuzzy Logic and Technology**
- **Web of Science:** For placing in the top 1% of reviewers in Cross-Field on Publons global reviewer database, determine by the number of peer review reports performed during 2018-2019 award year (2019)
- **Best Research Article in the Chapter of Information and Communication Technologies (ICTs) in the World Congress, Engineering 2010 Argentina.**
- **Best research article at the Conference Ibero-American IADIS, 2009.**
- **First Best Poster The 8th International FLINS Conference on Computational Intelligence in Decision and Control, 2008.**
- **Best research article at the Conference Ibero-American IADIS, 2007.**

Chair of Conferences

- XIII International Conference on Innovation & Management (ICIM2019), 2019, Jaén, Spain. Chair of Conference
- “V Fuzzy Logic and Soft Computing Conferences (LFSC 2015)”, 2015, Albacete, Spain. Chair of Conference
- IV CEDI, “IV Fuzzy Logic and Soft Computing Conferences (LFSC 2013)”, 2013, Madrid, Spain. Chair of Conference
- III CEDI, “III Fuzzy Logic and Soft Computing Conferences (LFSC 2010)”, 2010, Valencia, Spain. Chair of Conference.
- XI Eurofuse Workshop: New Trends on Preference Modelling, Jaén, Abril 2007. Chair of Conference.
- XII ESTLYF (Spanish Conference on Fuzzy Logic), Jaén, Septiembre 2004. Chair of Conference.

List of relevant journal publications

1. Long-Hao Yang, Jun Liu, Y.M. Wang, Luis Martínez A Micro-Extended Belief Rule-Based System for Big Data Multiclass Classification Problems *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 51, n.º 1. pp. 420-440, 2021.
2. Hamidreza Seiti, Ashkan Hafezalkotob, Luis Martínez R-sets, *Comprehensive Fuzzy Sets Risk Modeling for Risk-based Information Fusion and Decision-making IEEE Transactions on Fuzzy Systems*, vol. 29. pp. 385-399, 2021.
3. Boris Yatsalo, Alexander Korobov, Luis Martínez From MCDA to Fuzzy MCDA: violation of basic axiom and how to fix it *Neural Computing and Applications*, vol. 33. pp. 1711–1732, 2021.
4. Bapi Dutta, Son Duy Dao, Luis Martínez, Mark Goh "An evolutionary strategic weight manipulation approach for multi-attribute decision making: TOPSIS method" *International Journal of Approximate Reasoning*, vol. 129. pp. 64-83, 2021.
5. Zelin Wang, Rosa María Rodríguez, Y.M. Wang, Luis Martínez A two-stage minimum adjustment consensus model for large scale decision making based on reliability modeled by two-dimension 2-tuple linguistic information *Computers & Industrial Engineering*, vol. 151. Elsevier, p. 106973, 2021.
6. Álvaro Labella, Alessio Ishizaka, Luis Martínez "Consensual Group-AHP/Sort: Applying consensus to GAHP/Sort in sustainable development and industrial engineering" *Computers & Industrial Engineering*, vol. "152". p. "107013", 2021.
7. Wen He, Bapi Dutta, Rosa María Rodríguez, A. A. Alzahrani, Luis Martínez Induced OWA Operator for Group Decision Making Dealing with Extended Comparative Linguistic Expressions with Symbolic Translation *Mathematics*, vol. 9, n.º 1. p. 20, 2021.
8. Sihai Zhao, Yucheng Dong, Siqi Wu, Luis Martínez "Linguistic scale consistency issues in multi-granularity decision making contexts" *Applied Soft Computing*, vol. "101". p. "107035", 2021.
9. Rosa María Rodríguez, Álvaro Labella, Bapi Dutta, Luis Martínez Comprehensive minimum cost models for large scale group decision making with consistent fuzzy preference relations *Knowledge-Based Systems*, vol. 215. Elsevier, p. 106780, 2021.
10. Rosa María Rodríguez, Álvaro Labella, Mikel Sesma-Sara, Humberto Bustince, Luis Martínez A Cohesion-driven Consensus Reaching Process for Large Scale Group Decision Making under a Hesitant Fuzzy Linguistic Term Sets Environment *Computers & Industrial Engineering*, vol. 155. Elsevier, p. 107158, 2021.
11. Álvaro Labella, Bapi Dutta, Luis Martínez "An Optimal Best-Worst Prioritization Method under a 2-tuple Linguistic Environment in Decision Making" *Computers & Industrial Engineering*, vol. 155. p. "107141", 2021.
12. Erick González-Caballero, Rafael Espín-Andrade, Witold Pedrycz, Luis Martínez, Lilliana Guerrero-Ramos Continuous Linguistic Variables and Their Applications to Data Mining and Time Series Prediction *International Journal of Fuzzy Systems*. Springer, 2021.
13. Feifei Jin, Meng Cao, Jinpei Liu, Luis Martínez, Huayou Chen Consistency and trust relationship-driven social network group decision-making method with probabilistic linguistic information *Applied Soft Computing*, vol. 103. p. 107170, 2021.
14. Zhen-Song Chen, Xuan Zhang, Rosa María Rodríguez, Witold Pedrycz, Luis Martínez Expertise-based bid evaluation for construction-contractor selection with generalized comparative linguistic ELECTRE III *Automation in Construction*, vol. 125. p. 103578, 2021.
15. Mina Rahimi, Ashkan Hafezalkotob, Sobhan Asian, Luis Martínez Environmental Policy making in Supply Chains under Ambiguity and Competition: A Fuzzy Stackelberg Game Approach *Sustainability*, vol. 13. 2021.
16. Xianjuan Cheng, Shuping Wan, Jiuying Dong, Luis Martínez New decision-making methods with interval reciprocal preference relations: A new admissible order relation of intervals *Information Sciences*, vol. 569. pp. 400-429, 2021.
17. Zhen-Song Chen, Lan-Lan Yang, Rosa María Rodríguez, Sheng-Hua Xiong, Kwai-Sang Chin, Luis Martínez Power-average-operator-based hybrid multiattribute online product recommendation model for consumer decision-making *International Journal of Intelligent Systems*, vol. 36. pp. 2572-2617, 2021.
18. Alessio Ishizaka, Menelaos Tasiou, Luis Martínez Analytic hierarchy process-fuzzy sorting: An analytic hierarchy process-based method for fuzzy classification in sorting problems *Journal of the Operational Research Society*, vol. 71, n.º 6. Taylor & Francis, pp. 928-947, 2020.
19. Liang Wang, Y.M. Wang, Luis Martínez "Fuzzy TODIM method based on alpha-level sets" *Expert Systems with Applications*, vol. 140. p. "112899", 2020.
20. Álvaro Labella, Hongbin Liu, Rosa María Rodríguez, Luis Martínez A cost consensus metric for Consensus Reaching Processes based on a comprehensive minimum cost model *European Journal of Operational Research*, vol. 281. pp. 316–331, 2020.

21. Álvaro Labella, Rosa María Rodríguez, Luis Martínez *Computing with Comparative Linguistic Expressions and Symbolic Translation for Decision Making: ELICIT Information* *IEEE Transactions on Fuzzy Systems*, vol. 28, n.º 10. pp. 2510 - 2522, 2020.
22. Debasmita Banerjee, Bapi Dutta, Debashree Guha, Luis Martínez *SMAA-QUALIFLEX methodology to handle multicriteria decision-making problems based on q-rung fuzzy set with hierarchical structure of criteria using bipolar Choquet integral* *International Journal of Intelligent Systems*, vol. 35, n.º 3. pp. 401-431, 2020.
23. Yingying Liang, Jindong Qin, Luis Martínez, Jun Liu *"A heterogeneous QUALIFLEX method with criteria interaction for multi-criteria group decision making"* *Information Sciences*, vol. 512. pp. 1481-1502, 2020.
24. Abteen Ijadi Maghsoodi, Hamidreza Rasoulipannah, Luis Martínez, Huchang Liao, Edmundas K. Zavadskas *"Integrating interval-valued multi-granular 2-tuple linguistic BWM-CODAS approach with target-based attributes: Site selection for a construction project"* *Computers & Industrial Engineering*, vol. 139. p. 106147, 2020.
25. Álvaro Labella, Rosa María Rodríguez, Luis Martínez *A Consensus Reaching Process Dealing with Comparative Linguistic Expressions for Group Decision Making: A Fuzzy Approach* *Journal of Intelligent & Fuzzy Systems*, vol. 38. pp. 735-748, 2020.
26. Boris Yatsalo, Alexander Korobov, Basar Oztaysi, C. Kahraman, Luis Martínez *A general approach to fuzzy TOPSIS based on the concept of fuzzy multicriteria acceptability analysis* *Journal of Intelligent & Fuzzy Systems*, vol. 38. pp. 979-995, 2020.
27. Yaya Liu, José C. Rodríguez Alcantud, Rosa María Rodríguez, Keyun Qin, Luis Martínez *Intertemporal Hesitant Fuzzy Soft Sets: Application to Group Decision Making* *International Journal of Fuzzy Systems*, vol. 22, n.º 2. Springer, pp. 619-635, 2020.
28. Álvaro Labella, J.C Rodríguez-Cohard, J.D. Sánchez-Martínez, Luis Martínez *An AHPSort II Based Analysis of the Inequality Reduction within European Union* *Mathematics*, vol. 8, n.º 4. p. 646, 2020.
29. Hasan Dinçer, Serhat Yüksel, Luis Martínez *A Comparative Analysis of Incremental and Disruptive Innovation Policies in the European Banking Sector with Hybrid Interval Type-2 Fuzzy Decision-Making Models* *International Journal of Fuzzy Systems*, vol. 22, n.º 4. pp. 1158-1176, 2020.
30. Yanbing Ju, Yuanyuan Liang, Luis Martínez, Ernesto Santibanez Gonzalez, Mihalis Giannakis, Peiwu Dong, Aihua Wang *A new framework for health-care waste disposal alternative selection under multi-granular linguistic distribution assessment environment* *Computers & Industrial Engineering*, vol. 145. p. 106489, 2020.
31. Abteen Ijadi Maghsoodi, Shahrzad Soudian, Luis Martínez, Enrique Herrera-Viedma, Edmundas K. Zavadskas *"A phase change material selection using the interval-valued target-based BWM-CoCoMULTIMOORA approach: A case-study on interior building applications"* *Applied Soft Computing*, vol. "95". p. "106508", 2020.
32. Zhen-Song Chen, Xiao-Lu Liu, Rosa María Rodríguez, Xian-Jia Wang, Kwai-Sang Chin, Kwok-Leung Tsui, Luis Martínez *"Identifying and prioritizing factors affecting in-cabin passenger comfort on high-speed rail in China: A fuzzy-based linguistic approach"* *Applied Soft Computing*, vol. 95. 2020.
33. Yanbing Ju, Yuanyuan Liang, Luis Martínez, Aihua Wang, Chen-Fu Chien, Peiwu Dong, Ernesto Santibanez Gonzalez *"A new approach for heterogeneous linguistic failure mode and effect analysis with incomplete weight information"* *Computers & Industrial Engineering*, vol. 148. p. "106659", 2020.
34. Luis Martínez, Witold Pedrycz, Laura Cruz-Reyes *Editorial on Special Issue: Fuzzy Models for Business Analytics* *International Journal of Fuzzy Systems*, vol. 22. pp. 2690-2690, 2020
35. Álvaro Labella, Rosa María Rodríguez, A. A. Alzahrani, Luis Martínez *A Consensus Model for Extended Comparative Linguistic Expressions with Symbolic Translation* *Mathematics*, vol. 8. p. 2198, 2020.
36. Peng Hao, Guangquan Zhang, Luis Martínez, Jie Lu *Regularizing Knowledge Transfer in Recommendation With Tag-Inferred Correlation* *IEEE Transactions on Cybernetics*, vol. 49, n.º 1. pp. 83-96, 2019.
37. Hasan Dinçer, Serhat Yüksel, Luis Martínez *"Balanced scorecard-based Analysis about European Energy Investment Policies: A hybrid hesitant fuzzy decision-making approach with Quality Function Deployment"* *Expert Systems with Applications*, vol. 115. pp. 152-179, 2019.
38. Hamidreza Seiti, Ashkan Hafezalkotob, Luis Martínez *"R-numbers, a new risk modeling associated with fuzzy numbers and its application to decision making"* *Information Sciences*, vol. 483. pp. 206-231, 2019.
39. Zhou Xu, Jindong Qin, J. Liu, Luis Martínez *Sustainable supplier selection based on AHPSort II in interval type-2 fuzzy environment* *Information Sciences*, vol. 483. pp. 273-293, 2019.
40. Cong-Cong Li, Rosa María Rodríguez, Luis Martínez, Yucheng Dong, Francisco Herrera *Consensus Building With Individual Consistency Control in Group Decision Making* *IEEE Transactions on Fuzzy Systems*, vol. 27. pp. 319-332, 2019.
41. Q. Yu, Y. Liu, D. Xia, Luis Martínez *The Strategy Evolution in Double Auction Based on the Experience-Weighted Attraction Learning Model* *IEEE Access*, vol. 7, n.º 1. pp. 16730-16738, 2019.

42. Yaya Liu, Rosa María Rodríguez, H. Hagrass, Hongbin Liu, Keyun Qin, Luis Martínez Type-2 fuzzy envelope of hesitant fuzzy linguistic term set: a new representation model of comparative linguistic expression *IEEE Transactions on Fuzzy Systems*, vol. 27, n.º 12. pp. 2312-2326, 2019.
43. Zhen-Song Chen, Cheng Yu, Kwai-Sang Chin, Luis Martínez "An enhanced ordered weighted averaging operators generation algorithm with applications for multicriteria decision making" *Applied Mathematical Modelling*, vol. 71. pp. 467-490, 2019.
44. Hasan Dinçer, Serhat Yüksel, Luis Martínez "Analysis of Balanced Scorecard-based SERVQUAL Criteria based on Hesitant Decision-making Approaches" *Computers & Industrial Engineering*, vol. 139. pp. 1 - 12, 2019.
45. Qingxing Dong, Xin Zhou, Luis Martínez "A Hybrid Group Decision Making Framework for Achieving Agreed Solutions based on Stable Opinions" *Information Sciences*, vol. 490. pp. 227-243, 2019.
46. Hasan Dinçer, Serhat Yüksel, Luis Martínez "Interval type 2-based hybrid fuzzy evaluation of financial services in E7 economies with DEMATEL-ANP and MOORA methods" *Applied Soft Computing*, vol. 79. pp. 186-202, 2019.
47. Osama Sohaib, Mohsen Naderpour, Walayat Hussain, Luis Martínez "Cloud Computing Model Selection for E-commerce Enterprises Using a New 2-tuple Fuzzy Linguistic Decision-Making Method" *Computers & Industrial Engineering*, vol. 32. pp. 47-58, 2019.
48. Yejun Xu, Pengqun Gao, Luis Martínez "An interindividual iterative consensus model for fuzzy preference relations" *International Journal of Intelligent Systems*, vol. 34, n.º 8. Wiley, pp. 1864-1888, 2019.
49. Fawad Ahmed, Yuan Jian Qin, Luis Martínez "Sustainable Change Management through Employee Readiness: Decision Support System Adoption in Technology-Intensive British E-Businesses Sustainability", vol. 11. 2019.
50. Raciél Yera, A. A. Alzahrani, Luis Martínez "A food recommender system considering nutritional information and user preferences" *IEEE Access*, vol. 7, n.º 1. pp. 96695-96711, 2019.
51. Long-Hao Yang, Jun Liu, Y.M. Wang, Luis Martínez "New activation weight calculation and parameter optimization for extended belief rule-based system based on sensitivity analysis" *Knowledge and Information Systems*, vol. "60". pp. 837-878, 2019.
52. Yaya Liu, Rosa María Rodríguez, José C. Rodríguez Alcántud, Keyun Qin, Luis Martínez "Hesitant linguistic expression soft sets: Application to group decision making" *Computers & Industrial Engineering*, vol. 136. pp. 575-590, 2019.
53. Zhen-Song Chen, Luis Martínez, Jian-Peng Chang, Xian-Jia Wang, Sheng-Hua Xiong, Kwai-Sang Chin "Sustainable building material selection: A QFD- and ELECTRE III-embedded hybrid MCGDM approach with consensus building" *Engineering Applications of Artificial Intelligence*, vol. 85. pp. 783-807, 2019.
54. Bapi Dutta, Álvaro Labella, Rosa María Rodríguez, Luis Martínez "Aggregating Interrelated Attributes in Multi-Attribute Decision-Making With ELICIT Information Based on Bonferroni Mean and Its Variants" *International Journal of Computational Intelligence Systems*, vol. 12, n.º 2. pp. 1179 - 1196, 2019.
55. J. Chang, Zhen-Song Chen, X. Liu, W. Kong, S. Xiong, Luis Martínez "Paradigm shift toward aggregation strategies in proportional hesitant fuzzy multi-criteria group decision making models of advanced practice for selecting electric vehicle battery supplier" *IEEE Access*, vol. 7, n.º 1. pp. 172534-172561, 2019.
56. Raciél Yera, Manuel José Barranco, A. A. Alzahrani, Luis Martínez "Exploring Fuzzy Rating Regularities for Managing Natural Noise in Collaborative Recommendation" *International Journal of Computational Intelligence Systems*, vol. 12, n.º 2. pp. 1382 - 1392, 2019.
57. Jorge Castro, Raciél Yera, A. A. Alzahrani, Pedro José Sánchez, Manuel José Barranco, Luis Martínez "A Big Data Semantic Driven Context Aware Recommendation Method for Question-Answer Items" *IEEE Access*, vol. 7, n.º 1. pp. 182664-182678, 2019.
58. T González-Arteaga, Rocio de Andrés, Luis Martínez "Managing Interacting Criteria: Application to Environmental Evaluation Practices" *Axioms*, vol. 7. 2018.
59. Cong-Cong Li, Rosa María Rodríguez, Luis Martínez, Yucheng Dong, Francisco Herrera "Personalized individual semantics based on consistency in hesitant linguistic group decision making with comparative linguistic expressions" *Knowledge-Based Systems*, vol. 145. Elsevier, pp. 156-165, 2018.
60. Raciél Yera, Yailé Caballero Mota, Luis Martínez "A Recommender System for Programming Online Judges Using Fuzzy Information Modeling" *Informatics*, vol. 5. 2018.
61. Zhen-Song Chen, Luis Martínez, Kwai-Sang Chin, Kwok-Leung Tsui "Two-stage Aggregation Paradigm for \mathcal{HFLTS} Possibility Distributions: A Hierarchical Clustering Perspective" *Expert Systems with Applications*, vol. 104. pp. 43-66, 2018.
62. Jorge Castro, Jie Lu, Guangquan Zhang, Yucheng Dong, Luis Martínez "Opinion Dynamics-Based Group Recommender Systems" *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 48, n.º 12. IEEE, pp. 2394-2406, 2018.
63. Yaya Liu, Keyun Qin, Luis Martínez "Improving decision making approaches based on fuzzy soft sets and rough soft sets" *Applied Soft Computing*, vol. 65. pp. 320-332, 2018.

64. Zhen-Song Chen, Kwai-Sang Chin, Luis Martínez, K.L. Tsui Customizing Semantics for Individuals with Attitudinal HFLTS Possibility Distributions *IEEE Transactions on Fuzzy Systems*, vol. 26. pp. 3452-3466, 2018.
65. Álvaro Labella, Yaya Liu, Rosa María Rodríguez, Luis Martínez "Analyzing the performance of classical consensus models in large scale group decision making: A comparative study" *Applied Soft Computing*, vol. 67. pp. 677-690, 2018.
66. Rosa María Rodríguez, Álvaro Labella, Guy De Tré, Luis Martínez A large scale consensus reaching process managing group hesitation *Knowledge-Based Systems*, vol. 159, n.º 1. Elsevier, pp. 86-97, 2018.
67. Jorge Castro, Manuel José Barranco, Rosa María Rodríguez, Luis Martínez Group Recommendations Based on Hesitant Fuzzy Sets *International Journal of Intelligent Systems*, vol. 33. pp. 2058-2077, 2018.
68. Macarena Espinilla, Luis Martínez, Javier Medina, Chris Nugent The Experience of Developing the UJAml Smart Lab *IEEE Access*, vol. 6. Estados Unidos: Institute of Electrical and Electronics Engineers Inc., pp. 34631-34642, 2018.
69. Cuiqing Wei, Rosa María Rodríguez, Luis Martínez Uncertainty Measures of Extended Hesitant Fuzzy Linguistic Term Sets *IEEE Transactions on Fuzzy Systems*, vol. 26, n.º 3. pp. 1763-1768, 2018.
70. Long-Hao Yang, Jun Liu, Y.M. Wang, Luis Martínez "Extended belief-rule-based system with new activation rule determination and weight calculation for classification problems" *Applied Soft Computing*, vol. "72". pp. 261-272, 2018.
71. Zaiwu Gong, Ning Zhang, Kevin Li, Luis Martínez, Wei Zhao Consensus decision models for preferential voting with abstentions *Computers & Industrial Engineering*, vol. 115. pp. 670-682, 2018.
72. Boris Yatsalo, Luis Martínez Fuzzy Rank Acceptability Analysis: A Confidence Measure of Ranking Fuzzy Numbers *IEEE Transactions on Fuzzy Systems*, vol. 26, n.º 6. pp. 3579-3593, 2018.
73. Cong-Cong Li, Rosa María Rodríguez, Francisco Herrera, Luis Martínez, Yucheng Dong Consistency of hesitant fuzzy linguistic preference relations: An interval consistency index *Information Sciences*, vol. 432. Elsevier, pp. 347-361, 2018.
74. Zhen-Song Chen, M. Xu, X. Wang, Kwai-Sang Chin, K. L. Tsui, Luis Martínez Individual Semantics Building for HFLTS Possibility Distribution with Applications in Domain-specific Collaborative Decision Making *IEEE Access*, vol. 6. pp. 78803-78828, 2018.
75. Jindong Qin, Xinwang Liu, Luis Martínez Granular Computing in Decision Making *Granular Computing*, vol. 3, n.º 3. Springer, pp. 191-192, 2018.
76. Alexandros Nikas, Haris Doukas, Luis Martínez A group decision making tool for assessing climate policy risks against multiple criteria *Heliyon*, vol. 4. p. e00588, 2018.
77. Hongbin Liu, Le Jiang, Luis Martínez A dynamic multi-criteria decision making model with bipolar linguistic term sets *Expert Systems with Applications*, vol. 95. pp. 104-112, 2018.
78. Rosa María Rodríguez, Yejun Xu, Luis Martínez, Francisco Herrera Exploring Consistency for Hesitant Preference Relations in Decision Making: Discussing Concepts, Meaning and Taxonomy *Journal of Multiple Valued Logic & Soft Computing*, vol. 30. Old City Publishing, pp. 129-154, 2018.
79. Jorge Castro, Raciél Yera, Luis Martínez A fuzzy approach for natural noise management in group recommender systems *Expert Systems with Applications*, vol. 94. pp. 237-249, 2018.
80. Rosa María Rodríguez, Z.S Xu, Luis Martínez Hesitant fuzzy information for information fusion in decision making *Information Fusion*, vol. 42. Elsevier, pp. 62-63, 2018.
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PhD Supervised

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PhD student: Francisco Mata Mata

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2. Title: Models to combine preferences in Decision Making: Tools and Applications

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3. Title: Recommender Models with missing values applied to tourism

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4. Title: New models for Sensory Evaluation with Linguistic Information

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Date: March 2009

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5. Title: Performance appraisal: New approaches based on fuzzy sets and multi-criteria decision making

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7. Title: Comparative Linguistic preferences in decision making under uncertainty

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8. Title: Intelligent Tutor System based on Competence Based Education. Architecture and Diagnostics

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Date: January 2014

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9. Title: A multi-agent system for modelling Consensus reaching process in large scale group decision making by using Soft Computing

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10. Title: Environment Impact Significance Assessment under uncertainty
PhD student: Yeleny Zulueta Veliz
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11. Title: Software tools for Linguistic Decision Support and Consensus Reaching Processes under uncertainty
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Date: April 2015
Supervisor: Luis Martínez López
12. Title: Preprocessing data for collaborative filtering recommender systems. An application to e-learning scenario
PhD student: Yera, R.
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13. Title: Fuzzy linguistic model for evaluation problems dealing with heterogeneous information considering criteria dependency. An application to performance appraisal.
PhD student: Martínez Mimblera, F J.
Date: January 2016
Supervisor: Luis Martínez López
14. Title: Linguistic decision making based on hybrid mathematic models.
PhD student: Yaya Liu.
Date: July 2018
Supervisor: Luis Martínez López
15. Title: Emergency decision making under uncertainty.
PhD student: Liang Wang
Date: November 2018
Supervisor: Luis Martínez López
16. Title: Novel models in recommender systems and group recommender systems for improving recommendations
PhD student: Castro Gallardo J.
Date: February 2019
Supervisor: Luis Martínez López
17. Title: Procesos de alcance de consenso ante nuevos retos en toma de decisión en grupo: Grandes grupos y recomendación
PhD student: Quesada Real F.J.
Date: July 2019
Supervisor: Luis Martínez López