

## **International leadership (section 4 in the María de Maeztu Scientific Report 2017-2021)**

### **Invited talks in international events**

1. A. Vallecillo. Representing Uncertainty in Software Models: current state and challenges ahead Keynote at the UYMK 2020 conference. Turkey, 2020.
2. A. Vallecillo. Modeling and Evaluating Quality in the Presence of Uncertainty Keynote talk at the QUATIC 2019 conference. Ciudad Real, 2019.
3. F. Chicano. Gray-Box Optimization. International Webinar Series: Machine Intelligence Research Labs Scientific Network for Innovation and Research Excellence, 2020
4. L. Fuentes. Variability Variations in Cyber-Physical Systems. SPLC & ECSA. París, 2019
5. E. Alba, Smart Mobility by Using Evolutionary Algorithms, Universidad Pamplona, 2019
6. E. Alba, Perspectives in Artificial Intelligence, Keynote speaker, SoftPark (Australia), 2019
7. E. Alba, Applications of Artificial Intelligence, Keynote speaker, JAIIO (Argentina), 2019
8. E. Alba, IA and Smart Cities, Keynote speaker, Conf. FedCSIS (Germany), 2019
9. E. Alba, Opportunities for Quantum Optimization, Fujitsu Headquarters (UK), 2019
10. E. Alba, Intelligent Systems for Smart Cities, Conf. ALIFE (UK), 2019
11. E. Alba, World Strategies for Artificial Intelligence, Conf. Digit Huma. Keynote speaker, 2019
12. E. Alba, Evolutionary Algorithms for Smart Cities, Conf. IEEE CEC (N.Z.), 2019
13. C. Fernández Gago. Keynote talk: Trust Management for IoT. IFIP International conference on Trust Management 2019. Copenhagen (Dinamarca).
14. E. Alba, Evolutionary Algorithms for Smart Cities, Conf. IEEE CEC (N.Z.), 2019
15. E. Pimentel, Cloud Computing. Tutorial at the Iberoamerican Conference on Software Engineering. La Habana, Cuba
16. Pedro Merino, 10th FOKUS FUSECO Forum, 2019, Berlin
17. Pedro Merino, European Conference on Networks and Communications- workshop Empowering Transatlantic Platforms for Advance Wireless Research, 2019, Valencia
18. Rubén Ríos, Evolving Privacy: From Sensors to the Internet of Things. NECS Workshop on Network Security, 2017
19. Rodrigo Roman, IoT Security: Evolution and Trends. University of Tohoku (Japan), 2018.
20. M. Cristina Alcaraz, "Digital Twins in Industrial Ecosystems: Challenges, Security Issues and Countermeasures", 1st International Workshop on CPS4CIP 2020,
21. M. Cristina Alcaraz, Security Trends in the New Industrial Control Ecosystems: State of the Art and Challenges, Conferencia SikkertNOK 2018
22. M. Cristina Alcaraz, Security Trends in the New Industrial Control Ecosystems: State of the Art and Challenges, CyberICPS 2018 and SECPRE 2018
23. F. Durán, On the Ground Confluence of Order-sorted Conditional Specifications Modulo Axioms: Maude's Church-Rosser Checker, 8th International Workshop on Confluence (IWC), Dortmund, Germany, 2019.
24. María del Mar Gallardo. Analysis of extra-functional properties in mobile applications. Workshop for Manuel Hermenegildo's 60th Birthday, Oporto, 2019

### **Conference General Chair**

1. Antonio Vallecillo, ECOOP 2017, Barcelona, 2017.
2. Lidia Fuentes, First Ibero-American meeting of variability, 2020.
3. Antonio Vallecillo, CEDI 2020 (to be celebrated in 2021), Participation of several ITIS groups.
4. Rubén Saborido, SERP4IoT 2019, 2020 (collocated with ICSE). Organizer.
5. Francisco Chicano: Summer School on SBSE 2017. Chair.
6. Rubén Ríos, EruoSPEC 2019. General Chair.
7. Javier López, NSS 2020. General Co-Chair.

8. Javier López, TrustBus 2017. General Chair.
9. Javier López, WIIoTS workshop 2018. General Co-Chair. Enrique Alba, Smart-CT 2017. General Chair.
10. Carlos Canal, General Chair, ICSOC 2017.

#### **Conference Organizing Committee Members (international events)**

1. Cristina Alcaraz, CRITIS 2018, ESORICS 2019, ACM CPSS 2017, 2018. Publicity Chair.
2. Mónica Pinto, ICT4S 2020. Proceedings Chair.
3. Mónica Pinto, EASE 2021. Proceedings Chair.
4. Mónica Pinto, SPLC 2021. Tutorial Chair
5. Mercedes Amor, ICT4S 2020. Publicity Chair.
6. Carlos Cotta, EvoApplications 2020, Special session on Applications of Deep Bioinspired Algorithms co-chair
7. Carlos Cotta, GECCO 2020, General Evolutionary Computation and Hybrids track co-chair.
8. Antonio Vallecillo, MODELS 2017. Panels Chair
9. Francisco Chicano, GECCO 2020, Track co-chair of Evolutionary and Combinatorial Optimization and Metaheuristics
10. Francisco Chicano, EvoCOP 2020, "Web person"
11. Carlos Cotta: GECCO 2019. Workshop co-chair
12. Francisco Chicano, GECCO 2019. Track co-chair of Evolutionary and Combinatorial Optimization and Metaheuristics
13. Antonio Jesús Muñoz, IWSECC 2018, 2019, 2020, 2021
14. Antonio Jesús Muñoz, International Joint Conference on Ambient Intelligence, 2017
15. Antonio Maña, 13th European Conference on Ambient Intelligence, Aml 2017
16. Francisco Chicano, Smart-CT 2017. Publication Chair
17. Francisco Chicano, GECCO 2017. Proceedings Chair
18. Francisco Chicano, CEC 2017 Special Session Chair of Evolutionary Methods and Machine Learning in Software Engineering, Testing and Software Engineering Repositories
19. Francisco Chicano, GECCO 2018. Electronic Media Chair
20. Gabriel Luque, INCoS 2017. Track chair of Nature Inspired Parallel Collaborative Systems
21. Gabriel Luque, LSSC 2017, 2019. Special session chair of "Applications of Metaheuristics to Large-Scale Problems"
22. Gabriel Luque, NMA 2018. Special session chair of "Numerical Search and Optimization"
23. Antonio J. Muñoz, GSEEE 2020, ICEEE Organizing Committee.
24. Javier Troya, BMP 2018. Organizing Committee.
26. Javier Troya, SPLC 2017, ICMT 2017, TAP 2017, ICFG 2017, 2017 Publication Chair
27. Laura Panizo, María del Mar Gallardo, Pedro Merino. SPIN 2018. Organizing Committee.
28. Jamal Toutouh, ECC 2019, Smart-CT 2017. Local Organizer
29. Antonio J. Fernández Leiva. IEEE CEC 2017. Co-organizer of Special Sesión on "Computational Intelligence and Games"
30. Antonio J. Fernández Leiva. IWANN 2017. Co-organizer of Special Sesión on "Artificial Intelligence and Games".
31. Antonio J. Fernández Leiva. GECCO 2018. Co-organizer of Special Session on "Evolutionary algorithms for Big Data and massively complex problems"
32. Antonio J. Fernández Leiva. IDEAL 2018. Co-organizer of Special Sesión on "New Models of Bio-inspired computation for Massive Complex Environments".
33. Ernesto Pimentel, Local Organizing Chair, ICSOC 2017.
34. Rubén Saborido, SERP4IoT 2021.
35. Javier Cámara. ICSA 2021. New ideas and emerging results track co-chair
36. Carlos Cotta. GECCO 2021. Track co-chair

#### **Conference Program Chair/Co-chair**

1. Cristina Alcaraz, STM 2018, WIIoTS 2018, CPSS 2020, JNIC 2021

2. Carlos Cotta: EvoApplications 2019. General Thematic Area Programme co-Chair
3. Gabriel Luque, Smart-CT 2017.
4. Javier López, ISPEC 2019.
5. María de Mar Gallardo, Pedro Merino, SPIN 2018.
6. Rodrigo Román, EuroSPEC 2019. STM 2021.
7. Rubén Ríos, DPM 2018.
8. Lidia Fuentes, SPLC 2017. Program co-chair of Industrial Track.
9. Javier López, ESORICS 2018.
10. Javier López, ASIACCS 2018.
11. Francisco Chicano, Editor-in-Chief of the Genetic and Evolutionary Computation Conference (GECCO 2021)

### **Conference Program Committee Members**

1. Lidia Fuentes, SPLC conference 2019, 2020, 2021. ECOOP 2020. GPCE 2021. VaMos workshop 2021, ESEM 2021.
2. Francisco Chicano, EvoCOP 2017, 2018, 2019, 2020, 2021. EvoApplications 2020, 2021. RAISE Workshop 2018, 2019, 2020, 2021 (collocated with ICSE). SERP4IoT Workshop 2019, 2020, 2021 (collocated with ICSE). ISDA 2018, 2019, 2020. BRACIS 2017, 2018, 2019, 2020, 2021. BIOMA 2020. HM Workshop 2019. HIS 2018. SSCI 2017, 2018, 2019, 2020. PPSN 2018, 2020. CEC 2017, 2018, 2019, 2020, 2021. FOGA 2017, 2019, 2021. SSBSE 2017, 2018. MDE Intelligence workshop 2019, 2020, 2021. IBICA 2018. NaBIC 2017, 2018. SoCPaR 2018. ICICT 2018. LOPAL 2020. FTNCT 2020. SRC@ICSE 2021. ECTA 2021.
3. Ernesto Pimentel, ICSOC conference 2020, 2021, ESOC conference 2017, 2018, 2020, ClbSE conference 2017, 2018, 2019, 2020, ICWS conference 2017, 2018, 2019, 2020, ICBC conference 2018, 2019.
4. José Miguel Horcas, Artifact Evaluation Track of the SPLC Conference, 2019, 2020.
5. Antonio Vallecillo, ICSOC conference 2017. ECMFA conference 2020. MODELS conference 2017, 2018, 2019, 2020, 2021. QUATIC conference 2018, 2020. SEFM conference 2019. SLE conference 2019. ECMFA conference 2017, 2018, 2019, 2021. FACS conference 2018. ICSOC conference 2018, SEAA 2018. WSC conference 2018. EDOC 2021, ICSE 2021. Edusymp@MODELS'21, TB@ICSE'21, MPM4CPS@MODELS'21, MESS@STAF'21, OCL@MODELS'21
6. Javier Troya, ECMFA conference 2019, 2020, 2021. ICSR conference 2018. MASE conference 2020. MDE Intelligent workshop 2019. MDEBug 2017, 2018. Conference on Modelling Foundations and Applications (ECMFA): 2019, 2020. MEDI 2017. MoDRE 2020. QUATIC 2020, 2021. SEAA 2017, 2018, 2019, 2020, 2021. VOLT 2017. SRC@ICSE 2021
7. Rodrigo Roman, GloTS 2020. IEEE TrustCom 2020. CyberICPS 2020, 2021. SlOT workshop 2017, 2018, 2019. CPSS workshop 2018, 2021.
8. Rubén Ríos, ACISP 2020. ACNS 2019, 2021. BIC 2018. DEPEND 2017. DPM 2019, 2020, 2021. DSC 2020, 2021. EICC 2020. FutureTech 2017. ICCCN 2019. icSoftComp 2017. IWSMR 2020. NSS 2018, 2021. SECRIPT 2020. TrustBus 2017, 2018, 2019, 2020, 2021. WASA 2020. WITC 2018. WPES 2021
9. María del Mar Gallardo, SAC-STV 2018, 2019, 2020, 2021. FMICS 2018, 2019, 2020. WFLP 2018.
10. Pedro Merino, IEEE PIMRC 2017, 2018, 2020. WoRIE workshop 2018, 2019, 2020
11. Mónica Pinto, SERP4IoT workshop 2019, 2020, 2021 (collocated with ICSE), ICSEA 2020.
12. Antonio J. Muñoz, SSCC 2017, 2018, 2020, 2021. AISCEN 2019. IWSECC 2018. ICSoft 2017, 2018, 2019, 2020, 2021. ICT-BDCS 2018. TPMC 2018, 2019, 2020, 2021. ICWS 2019, 2020, 2021. ECCWS 2019, 2020. WCNA 2021. ACAI 2021. ICSCC 2020. Aml 2017.
13. M. Cristina Alcaraz, CRITIS 2017, 2018. NSS 2018. CISIS 2017, 2018. CPSS 2017, 2018, 2020. INTRICATE-SEC 2017, 2018. icSoftComp 2017. SaSelIoT 2017. ICRCICN 2017. EUSPN 2017. ESORICS 2017. EUSPN 2017. CyberICPS workshop 2017. SPTIoT 2017. ACISP 2017. WorldCIST 2017. ECSO 2017. CPS-SPC workshop 2017. STM workshop 2018. WIIoTS workshop 2018.
14. Javier Ferrer, Summer School on SBSE 2017. GECCO 2017, 2018, 2019, 2020. SmartCT 2017. ECC 2019.

15. Francisco Luna, CCGrid 2017. CEC 2017, 2018, 2019, 2020, 2021. CARLA 2017. INCoS 2017. EUSIPCO 2019. OLA 2019. PaCOS 2019. International Conference on the Applications of Evolutionary Computation, 2018, 2019, 2020. MIC 2017. INFORMS Winter Simulation Conference, 2019. EvoApplications 2021.
16. Rubén Saborido, GECCO 2019, 2020, 2021.
17. Jose Manuel García Nieto. WCCI 2008, GECCO 2017, 2018, 2019, 2020. ANTS 2018, PPSN 2018, 2020, META 2010, 2011. MOD 2019, 2020.
18. Gabriel Luque, GECCO 2017, 2018, 2019, 2020. EvoCOP 2017, 2018, 2019, 2020, 2021. EMO 2021. POMCO workshop 2020. LOD 2019, 2020. PPSN 2018, 2020. PaCOS workshop 2018, 2019. SEA^2 2019. IDC 2018. LION 2018. IEEE CEC 2017, 2018, 2019, 2020, 2021. IPMU 2018. MIC 2017. HIS 2018. ISDA 2018, 2019, 2020. EvoApplications 2021.
19. Ismael Navas Delgado, DEXA Conferences and Workshops 2009-2021.
20. Laura Panizo, Program Committee 13th NASA Formal Methods Symposium: 2021
21. Francisco Javier Durán, WADT 2020. WRLA workshop 2018, 2020. CALCO 2021. FASE 2021. FACS 2021. IWC 2021
22. Jamal Toutouh, Smart-CT 2017. LOD 2019. ICSC-CITIES 2019, 2020. ICPR Americas 2020. LION 12. ARES 2018, 2020. LOD 2020. SEA^2 2019. ECC 2019. MIC 2017. SITIS 2017, 2018, 2019.
23. Antonio J. Fernandez, FLAIRS- 30 2017. Evogames 2017, 2018, 2019, 2020. IFIP-ICEC 2018. CIG 2017, 2018. GAME-ON 2018. IEEE CEC (Special Session on Computational Intelligence and Games) 2017. IWANN (Special session on soft computing computational intelligence and games) 2017. MIC 2017. CEEC (Special Session on Computational Intelligence and Games) 2017. Special Session on Computational Intelligence and Games. 2017. CG 2018. GECCO (Workshop Evolutionary Algorithms for Big Data and Massively Complex Problems) 2018. Evo\* 2020. International Conference on Creative Economy, Cultural Development and Social Equity, 2019. V Congreso Internacional A Fenda Dixital - Videojuegos, Gamificación y aprendizaje basado en juegos digitales 2020.
24. María del Mar Roldán García. ISWC 2020, 2021. ESWC 2020, 2021(Integration, Services and APIs track). ACS/IEEE AICCSA 2020 (Semantics and Knowledge management track).

### **Steering Committee Members**

1. Lidia Fuentes, Software Product Lines Conference, SPLC.
2. Lidia Fuentes, Variability Modeling of Software Intensive Systems, VaMoS
3. Lidia Fuentes, <Programming> conferences
4. Ernesto Pimentel, Conferencia Iberoamericana en Software Engineering (CIBSE).
5. Ernesto Pimentel, European Conference on Service-Oriented and Cloud Computing.
6. Ernesto Pimentel, International Workshop on Coordination and Self-Adaptiveness of Software Applications (FOCLASA).
7. Francisco Chicano, European Conference on Evolutionary Computation for Combinatorial Optimization (since 2017)
8. Francisco Chicano, executive board of the SPECIES society (organizing the EvoStar conferences)
9. Antonio Vallecillo, European Conference on Modeling Foundations and Applications (ECMFA).
10. Antonio Vallecillo, Software Technologies: Applications and Foundations (STAF), European conference that serves as an umbrella for ECMFA, ICMT, ICGT, etc.
11. Antonio Vallecillo, AITO - European Association that organizes the European Conference on Object-Oriented Programming (ECOOP) and the annual "Dahl-Nygaard" Awards.
12. Pedro Merino, 5G PPP Technology Board
13. Carlos Cotta, Parallel Problem Solving from Nature Conference
14. Carlos Cotta, European Conference on Genetic Programming
15. Carlos Cotta, European Conference on Evolutionary Computation for Combinatorial Optimization 13. Javier López, EISA 2020 - The First International Symposium on Emerging Information Security and Applications

(EISA), 2020

16. Javier Cámara. International Symposium on Adaptive and Self-Managing Systems (SEAMS)

### **Research Awards**

1. Javier López. Premio Carlomagno to the scientific contributions in the engineering area
2. Carmen Fernandez Gago. Will Winsborough Award 2019 del WG11.11 on Trust Management.
3. 2019 Best Paper Award of the ECMFA 2019 conference: Gala Barquero, Javier Troya and Antonio Vallecillo. "Trading Accuracy for Performance in Data Processing Applications."
4. 2018 Most Influential Paper (MIP) of the SLE 2008 conference: José E. Rivera, E. Guerra, Juan de Lara, A. Vallecillo. "Analyzing Rule-Based Behavioral Semantics of Visual Modeling Languages with Maude."
5. 2018 Best Paper Award of the MODELS 2018 conference: Loli Burgueño, Manuel F. Bertoa, Nathalie Moreno, Antonio Vallecillo. "Expressing Confidence in Models and in Model Transformation Elements."
6. 2019 Best Paper Award of the EvoCOP 2019 conference: Chicano, F., Ochoa G., Whitley D., & Tinos R. (2019). Quasi-Optimal Recombination Operator. (Liefvooghe, A., & Paquete L., Ed.).
7. Best Paper Award of the ECOM Track of GECCO 2018: Enhancing Partition Crossover with Articulation Points Analysis. Francisco Chicano, Gabriela Ochoa, Darrell Whitley, Renato Tinos.
8. Best Paper Award of the GA Track of GECCO 2018: Tunneling Between Plateaus: Improving on a State-of-the-Art MAXSAT Solver using Partition Crossover. Wenxiang Chen, Darrell Whitley, Francisco Chicano, Renato Tinos.
9. Hitachi Young Best Paper Award - Data, demonstrations and Tools track in the SPLC 2017 conference: J.M. Horcas, M. Pinto, L. Fuentes. Extending the Common Variability Language (CVL) Engine: A practical tool.
10. Best Paper Award of the 23rd European Conference on Applications of Evolutionary Computation (como parte del Evo\*2020): Ariel Eduardo Vázquez Nuñez, Antonio J. Fernández Leiva, Antonio Mora, Pablo García Sánchez. Testing hybrid computational intelligence algorithms for general game playing
11. Best Paper Award of the EvoCOP 2021. Christian Cintrano, Javier Ferrer, Manuel López-Ibáñez & Enrique Alba, Hybridization of Racing Methods with Evolutionary Operators for Simulation Optimization of Traffic Lights Programs.
12. Juan Esteban Diaz y Manuel López-Ibáñez. "Incorporating Decision-Maker's Preferences into the Automatic Configuration of Bi-Objective Optimisation Algorithms", European Journal of Operational Research 289(3):1209-1222. Selected as "Editor's Choice Articles" in the journal European Journal of Operational Research, January 2021.
13. SEIO and Fundación BBVA Award as "Mejor contribución metodológica en Investigación Operativa" to: Christian Blum, Pedro Pinacho, Manuel López-Ibáñez y José A. Lozano, "Construct, Merge, Solve & Adapt A new general algorithm for combinatorial optimization", Computers & Operations Research 68: 75-88
14. Best Paper Award in EDOC 2021. A. Vallecillo "Introducing Subjective Knowledge Graphs.", 2021
15. Most Influential Paper Award in ECMFA 2021. A. Vallecillo. "Tractable Model Transformation Testing.", 2021.

### **Tutorials and Invited Courses**

1. Ernesto Pimentel. "Introduction to Cloud Computing". Invited Course: Tutorial de la XXII Conferencia Iberoamericana de Ingeniería del Software. La Habana, 2019.
2. E. Alba, "Parallel Metaheuristics", ECOLE S.S. (Netherlands), Invited Course, July 2019
3. E. Alba, "Parallel Multiobjective Optimization", Univ. Wolverhampt. (UK), Seminar, August 2019

4. Gabriel Luque, módulo "Metaheurísticas aplicadas al transporte y tráfico" (40 horas) del curso "Transporte y Tráfico", Caleta-Olivia (Argentina)
5. Ismael Navas Delgado. "Use of the BioQueries collaborative portal". Thursday 29th November 2012. Tutorials day SWAT4LS. Paris.
6. F. Durán. "Reflection and Meta-Programming in Maude", International School on Rewriting (ISR), Cali, Colombia, 2018.
7. Jamal Toutouh, Invited talk "Lipizzaner: Distributed Coevolution for Resilient Generative Adversarial Networks (GAN) Training" at the Universidad de la República, Montevideo, Uruguay, 2020.
8. Jamal Toutouh, Invited talk: "Spatial Coevolutionary Deep Neural Networks Training" at the Universidad de la República, Montevideo, Uruguay, 2019.
9. Carmen Fernandez Gago. "A Trust Framework for IoT", 2017, NeCS Doctoral Symposium.

### **Editors of Proceedings and Special issues in Journals**

1. María-del-Mar Gallardo, Pedro Merino: Model Checking Software - 25th International Symposium, SPIN 2018, Malaga, Spain, June 20-22, 2018, Proceedings. Lecture Notes in Computer Science 10869, Springer 2018, ISBN 978-3-319-94110-3
2. Raúl Lara-Cabrera, Antonio José Fernández Leiva: Proceedings of the VI Congreso de la Sociedad Española para las Ciencias del Videojuego, On-line, October 7-8, 2020. CEUR Workshop Proceedings 2719, CEUR-WS.org 2020
3. R. Paige, A. Vallecillo. Proceedings of ECMFA 2020. Journal of Object Technology. Volume 19, Number 2, July 2020 [http://www.jot.fm/contents/issue\\_2020\\_02.html](http://www.jot.fm/contents/issue_2020_02.html)
4. R. Wichert, A. Baraun, A. Maña (Eds.) Ambient Intelligence. Proceedings of the 13th European Conference, Aml 2017, Malaga, Spain. Springer-Verlag LNCS 10217. 2017
5. A. Maña, H- Koshutansk. Special issue on "Recent advances in ambient intelligence towards a smart and human-centered internet of things". J. Ambient Intell. Humaniz. Comput. 10(2): 727-729 (2019)
6. Alcaraz, C.; Burmester, M.; Cuellar, J.; Juang, XY.; Kotzanikolaou, P.; Psarakis, M.: Guest Editorial Special Issue on Secure Embedded IoT devices for resilient critical infrastructures (editorial). In IEEE Internet of Things Journal. Vol. 6, n. 5, pp. 7988-7991. IEEE, 2019. doi: 10.1109/JIOT.2019.2940394
7. de Fuentes, J.M.; Gonzalez-Manzano, L.; Lopez, J.; Peris-Lopez, P; Choo, K.-K.R.: Editorial: Security and Privacy in Internet of Things (editorial). In Mobile Networks and Applications. Vol. 24, issue,3, pp. 878-880. Springer, 2019. doi:10.1007/s11036-018-1150-8
8. Capilla, R.; Fuentes, L.; Lochau, M.: Software variability in dynamic environments (editorial). In Journal of Systems and Software. Vol. 156, pp. 62-64. Elsevier, 2019. doi: 10.1016/j.jss.2019.06.003
9. Zhang, Y; He, JH.; Lopez, J. ,...[et al]: IEEE Access Special Section Editorial: Mobile Edge Computing. In IEEE Access. Vol 8, pp. 106071-106074. IEEE, 2020. doi: 10.1109/ACCESS.2020.2996694
10. Paige, R. and Vallecillo, A. : Preface to the JOT special issue containing the ECMFA 2020 selected papers (editorial). In Journal of Object Technology. Vol. 19, n.2. Editorial Material, 2020. doi: 10.5381/jot.2020.19.2.e1
11. Gallardo, M.M and Merino, P.: Introduction to the Special Issue devoted to SPIN 2018 (Editorial). In International Journal on Software Tools for Technology Transfer. Vol.22, i. 2, pp.103-104. Springer, 2020. doi: 10.1007/s10009-020-00550-7. Open Access
12. C. Alcaraz, Y. Zhang, A. Cardenas, L Zhu, Special Section on Security and Privacy in Industry 4.0, IEEE Transactions on Industrial Informatics, 2020.

13. C. Alcaraz, M. Burmester, J. Cuellar, X. Huang, P. Kotzanikolaou, M. Psarakis, Special Issue on Secure Embedded IoT Devices for Resilient Critical Infrastructures, IEEE Internet of Things Journal, 2019.
14. C. Alcaraz, X. Huang, E. Rome, Special Issue on Security and Privacy in Cloud-Assisted Cyber-Physical Systems, Computer Networks, Elsevier, 2017.
15. E. Alba, F. Chicano, G. Luque (eds.). Proceedings of the Second International Conference, Smart-CT 2017, Springer LNCS 10268.
16. F. Chicano, B. Hu, P. García-Sánchez (eds.). Proceedings of the 16th European Conference Evolutionary Computation in Combinatorial Optimisation, EvoCOP 2016, Springer LNCS 9595.
17. C. Doerr, F. Chicano. Special Issue on Theory of Genetic and Evolutionary Computation. Algorithmica, Springer, 2017.
18. B. Hu, F. Chicano. Special Issue on Metaheuristics for Combinatorial Optimization. Journal of Heuristics, Elsevier, 2017.
19. N. Sklavos, S. Zeadally, C. Alcaraz, Special Issue on Modern Trends in Applied Security: Architectures, Implementations and Applications, Computers & Electrical Engineering, Elsevier Science Press, 2011.
20. R. Morales, R. Saborido, S. R. Humayoun, and Yann-Gaël Guéhéneuc, Special Issue on Software Engineering Research and Practices for the Internet of Things. IEEE Internet of Things Journal 7, no. 10 (2020).
21. T. Takahashi, R. Roman, R. Ko, B. Silverajan, S. Tabet. Special Issue on IoT Security and Privacy. International Journal of Information Security, vol. 19, 2020.
22. A. Jara, H. Song, R. Roman. Special Issue on Recent Advances in Fog/Edge Computing in Internet of Things, MDPI Sensors, 2019.
23. J. Garcia-Alfaro, J. Herrera-Joancomarti, G. Livraga, and R. Rios, "Data Privacy Management, Cryptocurrencies and Blockchain Technology", LNCS, vol. 11025, Springer International Publishing, 2018.
24. Antonio Jesús Muñoz, Eduardo B. Fernández, Haris Mouratidis. Special Issue abstract submission for Special Issue "Monitoring of Security Properties in IoT and Emerging Technologies" in MDPI Sensors Journal, 2021.
25. Ismael Navas Delgado, Jose Manuel García Nieto, Francisco Javier Mesas Carrascosa. Special Issue "Remote Sensing and Data Integration" in MDPI Sensors Journal, 2021.
26. D. Camacho, C. Cotta, J.J. Merelo, F. Fernández de Vega, Special issue on Bioinspired Algorithms in Complex Ephemeral Environments, Future Generation Computer Systems 88, 2018
27. C. Cotta, R. Schaefer, special issue on Bioinspired Algorithms and Complex Systems, *Journal of Computational Science* 23, 2017
28. C. Cotta, R. Schaefer, special issue on Complex Metaheuristics, *Journal of Computational Science* 17, 2017
29. Antonio J. Fernández Leiva: Special Issue del Journal *Entertainment Computing* sobre "Science in videogames", 2017.
30. Antonio J. Fernández Leiva: Special Issue del Journal *Entertainment Computing* sobre "La conferencia de la Sociedad Española para las Ciencias del Videojuego (COSECiVi)", 2020.
31. Lopez, Javier, Fischer-Hübner, Simone, Lambrinouidakis, Costas (Eds.), Proceedings of the 14th International Conference on Trust, Privacy and Security in Digital Business (TrusBus 2017), LNCS 10442, Springer, Lyon (France), Aug, 2017. ISBN: 978-3-319-64482-0
32. Enrique Alba, "Intelligent Systems for Exploiting Real Sensed Data in Smart City Applications" in Sensors, 2018.
33. José Manuel García Nieto "New Computing Paradigms of Stream Data Mining and Optimization in Non-Stationary Environments", in Future Generation Computer Systems 2019.
34. José Manuel García Nieto. "Remote Sensing and Data Integration", in Sensors 2021.
35. José Manuel García Nieto. "Multi-Objective Optimization Applied to Modern Agriculture" in Applied Sciences 2020

36. Pimentel, E.; Soldani, J.: Preface to the Special issue on coordination and self-adaptiveness of software applications (editorial). In *Science of Computer Programming*. Vol. 204. Elsevier, 2021.
37. Meng, W.; Lopez, J.; Xu, S.; Lu, R.: IEEE Access Special Section Editorial: Internet-of-Things attacks and defenses: recent advances and challenges. In *IEEE Access*. Vol. 9, pp.108846-108850, IEEE, 2021.
38. Antonio Jesús Muñoz, Eduardo B. Fernández, Haris Mouratidis. Special Issue abstract submission for Special Issue "Monitoring of Security Properties in IoT and Emerging Technologies" in *MDPI Sensors Journal*, 2021.
39. Ismael Navas Delgado, Jose Manuel García Nieto, Francisco Javier Mesas Carrascosa. Special Issue "Remote Sensing and Data Integration" in *MDPI Sensors Journal*, 2021.
40. José Manuel García Nieto. Special Issue "Remote Sensing and Data Integration", in *Sensors* 2021.

### **Journal Editorial Board Members**

1. Francisco Chicano, *Engineering Applications of Artificial Intelligence*, *Transaction on Evolutionary Learning and Optimization*, *Mathematical Problems in Engineering*, *Journal of Systems and Software*, *Evolutionary Computation Journal*, *Electronics*
2. Rodrigo Roman, *MDPI Sensors- "Internet of Things"*, *MDPI Journal of Cybersecurity and Privacy*,
3. Javier López. *International Journal of Information Security (IJIS)* (Co-Editor in Chief, since 2004), *IEEE Transactions on Dependable and Secure Computing* (since 2019), *IEEE Wireless Communications*, *IEEE*. (since 2012), *Computers & Security*, Elsevier (since 2008). *Journal of Network and Computer Applications* (since 2008). *Journal of Computer Security*, IOS Press (since 2013). *Information and Computer Security Journal*, Emerald (since 2004). *Evolutionary Learning and Optimization*. *Mathematical Problems in Engineering*. *Journal of Systems and Software*. *Evolutionary Computation Journal*. *Electronics*.
4. Ernesto Pimentel, *Services Transactions on Internet of Things*, *Services Society*, *Computing*, *Transactions on Internet and Information Systems*
5. Antonio Vallecillo, *Software and Systems Modeling*, *Journal of Object Technology*, *Journal of Software*
6. Pedro Merino, *Journal of Reliable Intelligent Environments*
7. M. Cristina Alcaraz, *International Journal of Critical Infrastructures (IJICIP)*, *Security and Communication Networks (SCN)*, *Telecommunication Systems (TELS)*, *Annals of Telecommunications (AT)*, *International Journal of Critical Infrastructures (IJCIS)*, *Transactions on Emerging Telecommunications Technologies (ETT)*, *Journal of Surveillance, Security and Safety (JSSS)*, *European CIIP Member Newsletter (ECN)*, *Ad Hoc Networks*, Elsevier, *Computers & Electrical Engineering (CAEE)*, Elsevier Science
8. Gabriel Luque, *Metaheuristics: Methods and Applications*, *Mathematical Problems in Engineering*
9. Francisco Luna, Editor-in-Chief of *Engineering Optimization*
10. Antonio Jesús Muñoz, *International Journal of Grid and High Performance Computing (IJGHPC)*, *International Journal of Information Security and Privacy*, *Journal of Software Science and Computational Intelligence (IJSSCI)* (since 2017), *The Open Bioinformatics Journal (TOBJ)*, *International Journal of Future Generation Communication and Networking (IJFGCN)*, *International Journal of Systems and Software Security and Protection (IJSSSP)*, *Journal of Risk and Contingency Management (IJRCM)*, *Journal of Hyperconnectivity and the Internet of Things (IJHIoT)* (since 2017)
11. Carlos Cotta, *Memetic Computing*, *Evolutionary Computation*, *Journal of Computational Science*
12. Javier Troya. Distinguished reviewer at ACM TOSEM.

### **Members of International Organizations**

1. Antonio Vallecillo. ACM Senior Member (<https://www.acm.org/>)
2. Antonio Vallecillo. Miembro de la Academia Europea (<https://www.ae-info.org/>)
3. Antonio Vallecillo. AAIA Fellow (<https://www.aaia-ai.org/>)



### **Participation in Standardization Committees**

4. Antonio Vallecillo, member of the UNE Standardization Committee CTN71/SC7 (Software Engineering and Information Systems), 2016-2021.
5. Antonio Vallecillo, member and national representative in Working Groups WG4, WG19 and WG42, ISO Committee JTC1-SC7 (“Systems and Software Engineering”), 2016-2021.
6. Antonio Vallecillo, Spanish delegate in the ISO/JCT1/SC7 annual meeting, 2016-2021.
7. Antonio Vallecillo, Spanish delegate in the ISO/JCT1/SC7/WG19 intermediate meetings, 2016-2021.
8. Antonio Vallecillo, Spanish delegate in the ISO/JCT1/SC7/WG4 intermediate meetings, 2021.
9. Antonio Vallecillo, member of the “Precise Semantics for Uncertainty Modeling” proposing group, OMG (2019-2020)
10. Javier López, President of the Standardization Subcommittee Data Protection, Privacy and Identity management of UNE (CTN320-5)
11. Pedro Merino contributes to ETSI as representative and delegate from University of Malaga
12. Antonio J. Fernández Leiva. Member of the IEEE Computational Intelligence Society Technical Committee on Games (GTC). 2017, 2018, 2019.

### **Participation on International Network of Excellence**

1. Network of Big Data Centers of Excellence (<http://i-know.tugraz.at/european-network/>). José F. Aldana Montes.
2. CLAIRE - Confederation of Laboratories for Artificial Intelligence Research in Europe (<https://claire-ai.org/>), NEO group
3. Red Temática Iberoamericana de Ciudades Inteligentes Totalmente Integrales, Eficientes y Sostenibles (CITIES), Ref.: Red 518RT0558, Jamal Toutouh
4. European Cyber Security Organization ASBL (ECSO). <https://ecs-org.eu/>. Javier López Muñoz.

### **Participation on PPPs or ETPs**

1. Big Data Value Association (BDVA). <https://www.bdva.eu/>, Khaos group
2. 5GPPP - The 5G Infrastructure Public Private Partnership (<https://5g-ppp.eu/>), MORSE group
3. Networld2020 - European Technology Platform for communications networks and services (<https://www.networld2020.eu/>), MORSE, ERTIS and NICS groups
4. cPPP on CyberSecurity: European Cybersecurity Organisation (ECSO) (<https://ecs-org.eu/>), NICS group

### **Participation on COST actions**

1. EU COST Action number IC1404. Multi-Paradigm Modelling for Cyber-Physical Systems (MPM4CPS) <http://mpm4cps.eu/>: Antonio Vallecillo. Board member and WP leader. 2014-2018.
2. CA18237 - European Soil-Biology Data Warehouse for Soil Protection. Member Committee: Ismael Navas-Delgado. Leader of WG 4 - User-friendly interfaces (GUIs) of a soil-biodiversity data warehouse. 2019-2023
3. Cost Gene regulation ensemble effort for the knowledge commons (GREEKC). COST Action CA15205 ([http://www.cost.eu/COST\\_Actions/ca/CA15205](http://www.cost.eu/COST_Actions/ca/CA15205)). MC Member: María del Mar Roldán García. Leader of WG1- Ontologies and Controlled Vocabularies. 2016-2020.
4. Cost Improving Applicability of Nature-Inspired Optimisation by Joining Theory and Practice (ImAppNIO). MC Member: José Manuel García Nieto. 2016-2020.
5. Cost action IC1302 - Semantic keyword-based search on structured data sources (KEYSTONE). WG Member: María del Mar Roldán García. 2013-2017

6. Cost action CA19134 - Distributed Knowledge Graphs. MC Member: María del Mar Roldán García. 2020-2024.

### **Transference and investigation Recognition**

1. Acceptance in the European Catalog of Technological Centers for Advanced Technologies for Industry (<https://ati.ec.europa.eu/technology-centre/instituto-de-tecnologias-e-ingenieria-del-software-itis>)

### **International Collaborations with other groups/institutes**

1. Daniel J. Muñoz Guerra. Colaboration with the KTH Royal Institute of Technology (Swiss), professor Dilian Gurov. Ayudas competitivas de movilidad 2020 UMA y ERAMUS+ K103 2021. Date: september 2020- march 2021.
2. Carlos Cotta: HNP-AI: Structure prediction of hybrid nanoparticles via artificial intelligence [External advisor], Academy of Finland, 2018-2021
3. Carlos Cotta: Australian Research Council Project "Multiobjective Memetic Algorithms for Multi-task Symbolic Regression" (DP200102364), Associated Researcher.
4. Francisco Javier Durán Muñoz. Member of the team developing the Maude language, joint collaboration of SRI International of California (C. Talcott, S. Eker), University of Illinois at Urbana-Champaign (J. Meseguer), UCM (N. Martí-Oliet), and UPV (S. Escobar).
5. Francisco Javier Durán Muñoz. Research collaboration with researchers of the Grenoble University/INRIA, France (G. Salaün) and Universidad Javeriana de Cali, Colombia (C. Rocha) in business processes optimization.
6. Francisco Javier Durán Muñoz. Research collaboration with researchers of the Western Norway University of Applied Sciences (A. Rutle, L. M. Kristensen) in multi-level models. PhD thesis co-supervisor (A. Rodríguez Tena).
7. Daniel J. Muñoz Guerra, Mónica Pinto and Lidia Fuentes. Colaboration with the KTH Royal Institute of Technology (Suecia). Research stay of professor Dilian Gurov in the University of Málaga. Date: november 2021.
8. Lidia Fuentes, The Future of E-Health is Mobile, PhD thesis panel, Faculty of Sciences, Vrije Universiteit Amsterdam, 2021.
9. Cristian Martín Fernández. Colaboration with the research Institute for High Performance Microelectronics (IHP). Two-month stay. Date June-August 2021. Founded by "Ayuda de movilidad internacional del Plan Propio de la UMA."
10. Delia Rico Marchena. Two research stays (Guest PhD Student) in the University of Karlstad (Sweden). Date: March-June (3 months) y September-December (3 months). Founded by "Ayuda del ministerio: estancias breves FPU".