

Fecha del CVA	2026/02/06
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Parte A. DATOS PERSONALES

Nombre y apellidos	JAVIER		
DNI/NIE/pasaporte		Edad	57
Núm. identificación del investigador		Researcher ID	AAA-8192-2019
		ORCID	0000-0001-8030-1062

A.1. Situación profesional actual

Organismo	Universidad Autónoma de Madrid		
Dpto./Centro			
Dirección	Ciudad Universitaria de Cantoblanco. Madrid. 28049		
Teléfono		correo electrónico	
Categoría profesional	University Professor	Fecha inicio	2005-07-20
Espec. cód. UNESCO			
Palabras clave	Ingeniería Telemática		

A.2. Formación académica (título, institución, fecha)

Licenciatura/Grado/Doctorado	Universidad	Año
Titulado superior / Grado Licenciado en ciencias matemáticas	Uned	2009
Doctorado Doctor Ingeniero de Telecomunicación	Universidad politécnica de madrid	1995
Doctorado Doctor/a	Universidad Politécnica de Madrid	1995
Titulado superior / Grado Ingeniero de telecomunicación	Universidad politécnica de madrid	1993

A.3. Indicadores generales de calidad de la producción científica

Nº of Sexenis: 1 (Last year: 2025)

Nº of Directed Thesis: 3

Total Pub. (WoS): 137 | Total Cites: 603 (date of: 2026-02-06)

Total Pub. (Scopus): 164 | Total Cites: 1052 (date of: 2026-02-06)

Total Pub. (Europe PMC): 1 | Total Cites: 0 (date of: 2026-01-31)

Mean of cites/doc (WoS): 4.861313868

Mean of cites/doc (Scopus): 6.426829268

Mean of cites/doc (Crossref): 3.285714285

Total of Pub. Q1: 45

- Total of Pub. Q1: 24 (WoS)

- Total of Pub. Q1: 43 (Scopus)

Total of Pub. Q1 (last 10 years): 13

- Total of Pub. Q1 (last 10 years): 8 (WoS)

- Total of Pub. Q1 (last 10 years): 12 (Scopus)

H index(WoS): 12 (date of: 2026-02-06)

H index(Scopus): 15 (date of: 2026-02-06)

Parte C. MÉRITOS MÁS RELEVANTES (ordenados por tipología)

C.1. Publicaciones

Article: León, A; Perdices, D; García-Dorado, JL; Ramos, J; Aracil, J. An expert-aware Markovian system for end-user proactive troubleshooting in the Network and Security Operations Center EXPERT SYSTEMS WITH APPLICATIONS. ISSN/ISBN: 09574174. 2025, vol.: 276 n°: . pg: 127072 -. DOI:10.1016/j.eswa.2025.127072. 7.500. 1.854

Article: Ramos, J; García-Dorado, JL; Aracil, J. Workforce capacity planning for proactive troubleshooting in the Network Operations Center COMPUTER NETWORKS. ISSN/ISBN: 13891286. 2023, vol.: 221 n°: . pg: 109523 -. DOI:10.1016/j.comnet.2022.109523. 4.400. 1.520

Article: Perdices, D; García-Dorado, JL; Ramos, J; De Pool, R; Aracil, J. Towards the Automatic and Schedule-Aware Alerting of Internetwork Time Series IEEE ACCESS. ISSN/ISBN: 21693536. 2021, vol.: 9 n°: . pg: 61346 -61358. DOI:10.1109/ACCESS.2021.3073598. 3.476. 0.927

Article: Roquero, P; Aracil, J. On Performance and Scalability of Cost-Effective SNMP Managers for Large-Scale Polling IEEE ACCESS. ISSN/ISBN: 21693536. 2021, vol.: 9 n°: . pg: 7374 -7383. DOI:10.1109/ACCESS.2021.3049310. 3.476. 0.927

Article: Muelas, D; García-Dorado, JL; Albandea, S; de Vergara, JEL; Aracil, J. On the dynamics of valley times and its application to bulk-transfer scheduling COMPUTER COMMUNICATIONS. ISSN/ISBN: 01403664. 2020, vol.: 164 n°: . pg: 124 -137. DOI:10.1016/j.comcom.2020.09.015. 3.167. 0.627

Article: Garcia-Dorado, JL; Ramos, J; Gomez-Arribas, FJ; Magana, E; Aracil, J. Instrumentation for measuring users' goodputs in dense Wi-Fi deployments and capacity-planning rules WIRELESS NETWORKS. ISSN/ISBN: 10220038. 2020, vol.: 26 n°: 4. pg: 2943 -2955. DOI:10.1007/s11276-019-02229-7. 2.602. 0.417

Article: Roquero, P; Magaña, E; Leira, R; Aracil, J. Performance evaluation of client-based traffic sniffing for very large populations COMPUTER NETWORKS. ISSN/ISBN: 13891286. 2020, vol.: 166 n°: 106985. pg: 106985 -. DOI:10.1016/j.comnet.2019.106985. 4.474. 0.798

Article: Garcia-Jimenez, S; Magaña, E; Aracil, J. NATRA: Network ACK-Based Traffic Reduction Algorithm IEEE ACCESS. ISSN/ISBN: 21693536. 2020, vol.: 8 n°: . pg: 151229 -151241. DOI:10.1109/ACCESS.2020.2997669. 3.367. 0.587

Article: García-Dorado, JL; Aracil, J. Flow-concurrence and bandwidth ratio on the Internet COMPUTER COMMUNICATIONS. ISSN/ISBN: 01403664. 2019, vol.: 136 n°: . pg: 43 -52. DOI:10.1016/j.comcom.2019.01.007. 2.816. 0.687

Proceedings Paper: Leira, R; Gifre, L; González, I; de Vergara, JEL; Aracil, J. Wormhole: a novel big data platform for 100 Gbit/s network monitoring and beyond PROCEEDINGS OF THE 2019 22ND CONFERENCE ON INNOVATION IN CLOUDS, INTERNET AND NETWORKS AND WORKSHOPS (ICIN). ISSN/ISBN: 24728144. 2019, vol.: 40 n°: . pg: 297 -301. DOI:10.1109/ICIN.2019.8685877. .

Article: Moreno, CV; Sierra, EM; Moreno, GJ; de Vergara, JEL; Magaña, E; Aracil, J. On the design and performance evaluation of automatic traffic report generation systems with huge data volumes INTERNATIONAL JOURNAL OF NETWORK MANAGEMENT. ISSN/ISBN: 10557148. 2018, vol.: 28 n°: 6. pg: e2044 -. DOI:10.1002/nem.2044. 1.231. 0.260

Proceedings Paper: Vega C; Aracil J; Magana E. KISS Methodologies for Network Management and Anomaly Detection 2018 26TH INTERNATIONAL CONFERENCE ON SOFTWARE, TELECOMMUNICATIONS AND COMPUTER NETWORKS, SOFTCOM 2018. ISSN/ISBN: . 2018, vol.: n°: . pg: 181 -186. DOI:10.23919/SOFTCOM.2018.8555785. .

Article: Miravalls-Sierra, E; Muelas, D; Ramos, J; de Vergara, JEL; Morató, D; Aracil, J. Online detection of pathological TCP flows with retransmissions in high-speed networks *COMPUTER COMMUNICATIONS*. ISSN/ISBN: 01403664. 2018, vol.: 127 n°: . pg: 95 -104. DOI:10.1016/j.comcom.2018.06.002. 2.766. 0.500

Article: Leira, R; Aracil, J; de Vergara, JEL; Roquero, P; González, I. High-speed optical networks latency measurements in the microsecond timescale with software-based traffic injection *OPTICAL SWITCHING AND NETWORKING*. ISSN/ISBN: 15734277. 2018, vol.: 29 n°: . pg: 39 -45. DOI:10.1016/j.osn.2018.03.004. 1.353. 0.262

Article: Ramos, J; Muelas, D; de Vergara, JEL; Aracil, J. Estimation of the parameters of token-buckets in multi-hop environments *COMPUTER NETWORKS*. ISSN/ISBN: 13891286. 2018, vol.: 138 n°: . pg: 177 -191. DOI:10.1016/j.comnet.2018.04.003. 3.030. 0.592

Article: García-Dorado, JL; Ramos, J; Rodríguez, M; Aracil, J. DNS weighted footprints for web browsing analytics *JOURNAL OF NETWORK AND COMPUTER APPLICATIONS*. ISSN/ISBN: 10848045. 2018, vol.: 111 n°: . pg: 35 -48. DOI:10.1016/j.jnca.2018.03.008. 5.273. 0.903

Article: Miravalls-Sierra, E; Muelas, D; de Vergara, JEL; Ramos, J; Aracil, J. On the use of affordable COTS hardware for network measurements: Limits and good practices *INFORMATION (SWITZERLAND)*. ISSN/ISBN: 20782489 . 2018, vol.: 9 n°: 2. pg: 467 -. DOI:10.3390/info9020043. . 0.222

Article: Daniel Perdices; Jorge E. López de Vergara; Paula Roquero; Carlos Vega; Javier Aracil. FlexiTop: a flexible and scalable network monitoring system for Over-The-Top services *NETWORK PROTOCOLS AND ALGORITHMS*. ISSN/ISBN: 19433581. 2018, vol.: 9 n°: 3-4. pg: 136 -136. DOI:10.5296/npa.v9i3-4.12488. .

Proceedings Paper: Vega, C; Aracil, J; Magaña, E. KISS Methodologies for Network Management and Anomaly Detection 2018 26TH INTERNATIONAL CONFERENCE ON SOFTWARE, TELECOMMUNICATIONS AND COMPUTER NETWORKS (SOFTCOM). ISSN/ISBN: . 2018, vol.: n°: . pg: 99 -104. DOI: .

Article: Muelas, D; de Vergara, JEL; Berrendero, JR; Ramos, J; Aracil, J. Facing Network Management Challenges with Functional Data Analysis: Techniques & Opportunities *MOBILE NETWORKS & APPLICATIONS*. ISSN/ISBN: 1383469X. 2017, vol.: 22 n°: 6. pg: 1124 -1136. DOI:10.1007/s11036-016-0733-5. 2.497. 0.634

Article: Vega, C; Roquero, P; Leira, R; Gonzalez, I; Aracil, J. Loginson: a transform and load system for very large-scale log analysis in large IT infrastructures *JOURNAL OF SUPERCOMPUTING*. ISSN/ISBN: 09208542. 2017, vol.: 73 n°: 9. pg: 1 -22. DOI:10.1007/s11227-017-1990-1. 1.532. 0.407

Proceedings Paper: Muelas D., García-Dorado J.L., De Vergara J.E.L., Aracil J.. Application of functional feature extraction to the compression of network time series *PROCEEDINGS OF THE IM 2017 - 2017 IFIP/IEEE INTERNATIONAL SYMPOSIUM ON INTEGRATED NETWORK AND SERVICE MANAGEMENT*. ISSN/ISBN: . 2017, vol.: n°: . pg: 592 -595. DOI:10.23919/INM.2017.7987337. .

Proceedings Paper: Muelas D., De Vergara J.E.L., Ramos J., García-Dorado J.L., Aracil J.. On the impact of TCP segmentation: Experience in VoIP monitoring *PROCEEDINGS OF THE IM 2017 - 2017 IFIP/IEEE INTERNATIONAL SYMPOSIUM ON INTEGRATED NETWORK AND SERVICE MANAGEMENT*. ISSN/ISBN: . 2017, vol.: n°: . pg: 708 -713. DOI:10.23919/INM.2017.7987363. .

Proceedings Paper: Albandea S., García-Dorado J.L., Muelas D., De Vergara J.E.L., Aracil J.. Valley times in the Spanish academic network PROCEEDINGS OF THE IM 2017 - 2017 IFIP/IEEE INTERNATIONAL SYMPOSIUM ON INTEGRATED NETWORK AND SERVICE MANAGEMENT. ISSN/ISBN: . 2017, vol.: n°: . pg: 564 -567. DOI:10.23919/INM.2017.7987330. .

Proceedings Paper: Vega, C; Zazo, JF; Meyer, H; Zyulkyarov, F; Lopez-Buedo, S; Aracil, J. Diluting the Scalability Boundaries: Exploring the Use of Disaggregated Architectures for High-Level Network Data Analysis PROCEEDINGS - 2017 IEEE 19TH INTL CONFERENCE ON HIGH PERFORMANCE COMPUTING AND COMMUNICATIONS, HPCC 2017, 2017 IEEE 15TH INTL CONFERENCE ON SMART CITY, SMARTCITY 2017 AND 2017 IEEE 3RD INTL CONFERENCE ON DATA SCIENCE AND SYSTEMS, DSS 2017. ISSN/ISBN: . 2017, vol.: 2018-January n°: . pg: 340 -347. DOI:10.1109/HPCC-SmartCity-DSS.2017.45. .

Article: Cuadra, A; Aracil, J. Context-aware security framework based on Traffic Anomaly Detection Indicator TELECOMMUNICATION SYSTEMS. ISSN/ISBN: 10184864. 2017, vol.: 65 n°: 2. pg: 319 -330. DOI:10.1007/s11235-016-0233-8. 1.527. 0.239

Article: Cuadra-Sanchez, A; Aracil, J. A novel blind traffic analysis technique for detection of WhatsApp VoIP calls INTERNATIONAL JOURNAL OF NETWORK MANAGEMENT. ISSN/ISBN: 10557148. 2017, vol.: 27 n°: 2. pg: e1968 -. DOI:10.1002/nem.1968. 1.340. 0.242

Article: Vega, C; Roquero, P; Aracil, J. Multi-Gbps HTTP traffic analysis in commodity hardware based on local knowledge of TCP streams COMPUTER NETWORKS. ISSN/ISBN: 13891286. 2017, vol.: 113 n°: . pg: 258 -268. DOI:10.1016/j.comnet.2017.01.001. 2.522. 0.500

Article: CUADRA SANCHEZ, ANTONIO; Aracil Rico, Javier. Context-aware security framework based on Traffic Anomaly Detection Indicator . ISSN/ISBN: . 2016, vol.: n°: . pg: -. DOI: . .

Article: Uceda, V; Rodríguez, M; Ramos, J; García-Dorado, JL; Aracil, J. Selective Capping of Packet Payloads at Multi-Gb/s Rates IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS. ISSN/ISBN: 07338716. 2016, vol.: 34 n°: 6. pg: 1807 -1818. DOI:10.1109/JSAC.2016.2559198. 8.085. 1.873

Article: Ruiz, M; Ramos, J; Sutter, G; de Vergara, JEL; López-Buedo, S; Aracil, J. Accurate and affordable packet-train testing systems for multi-gigabit-per-second networks IEEE COMMUNICATIONS MAGAZINE. ISSN/ISBN: 01636804. 2016, vol.: 54 n°: 3. pg: 80 -87. DOI:10.1109/MCOM.2016.7432152. 10.435. 2.298

Proceedings Paper: Ruiz, M; Sutter, G; López-Buedo, S; Ramos, J; de Vergara, JEL; Aracil, J. Leveraging open source platforms and high-level synthesis for the design of FPGA-based 10 GbE active network probes 2015 INTERNATIONAL CONFERENCE ON RECONFIGURABLE COMPUTING AND FPGAS, RECONFIG 2015. ISSN/ISBN: . 2016, vol.: n°: . pg: -. DOI:10.1109/ReConFig.2015.7393325. .

Proceedings Paper: Zazo, JF; Lopez-Buedo, S; Sutter, G; Aracil, J. Automated synthesis of FPGA-based packet filters for 100 Gbps network monitoring applications 2016 INTERNATIONAL CONFERENCE ON RECONFIGURABLE COMPUTING AND FPGAS (RECONFIG16). ISSN/ISBN: 9781479920785. 2016, vol.: 4 n°: . pg: 1 -6. DOI:10.1109/ReConFig.2016.7857156. .

C.2. Proyectos

Competitive project (Program: Agencia Estatal de Investigación. Development in: Universidad Autónoma de Madrid. Ref: PID2019-104451RB-C21). AGILEMon - Hacia un nuevo paradigma de análisis de rendimiento AGILE para servicios. Equip: Gonzalez Martinez, Ivan (Investigador/a); Pedro Sanchez, Luis DE (Investigador/a); Lopez Buedo, Sergio (Investigador principal (IP)); Ramos de Santiago, Fco Javier (Investigador/a); Sutter Capristo, Gustavo Daniel (Investigador/a); Gomez Arribas, Fco Javier (Investigador/a); Aracil Rico, Javier (Investigador principal (IP)); Lopez de Vergara Mendez, Jorge Enrique (Investigador/a); Garcia Dorado, Jose Luis (Investigador/a). Duration: 06-01-2020 - 05-31-2024. Financing: 239822.00 Euros

Competitive project (Program: Ministerio de Economía y Competitividad. Development in: Universidad Autónoma de Madrid. Ref: RTC-2016-4744-7). CREACION DEL PRIMER JUEGO ON-LINE MULTIJUGADOR VIRTUALIZADO Y REAL RACING DRONES Equip: Roquero Fuentes, Paula (Investigador/a); Lopez de Vergara Mendez, Jorge Enrique (Investigador principal (IP)); Leira Osuna, Rafael (Investigador, Becario colaborador); Muelas Recuenco, David (Investigador, Becario colaborador); Ramos de Santiago, Fco Javier (Investigador/a); Garcia Dorado, Jose Luis (Investigador/a); Gonzalez Martinez, Ivan (Investigador/a); Lopez Buedo, Sergio (Investigador/a); Gomez Arribas, Fco Javier (Investigador/a); Aracil Rico, Javier (Investigador/a); Sutter Capristo, Gustavo Daniel (Investigador/a). Duration: 12-13-2016 - 12-31-2019. Financing: 107072.42 Euros

Competitive project (Program: Ministerio de Economía y Competitividad. Development in: Universidad Autónoma de Madrid. Ref: TEC2015-69417-C2-1-R). ANALISIS DE TRAFICO PARA INTELIGENTE OPERATIVA Equip: RUIZ NOGUERA, MARIO DANIEL (Investigador/a); GIFRE RENOM, LLUIS (Investigador/a); Leira Osuna, Rafael (Investigador/a); Muelas Recuenco, David (Investigador/a); Ramos de Santiago, Fco Javier (Investigador/a); Lopez de Vergara Mendez, Jorge Enrique (Investigador principal (IP)); Aracil Rico, Javier (Investigador principal (IP)); Garcia Dorado, Jose Luis (Investigador, Becario colaborador); Pedro Sanchez, Luis DE (Investigador/a); Gonzalez Martinez, Ivan (Investigador/a); Sutter Capristo, Gustavo Daniel (Investigador/a); Lopez Buedo, Sergio (Investigador/a); Gomez Arribas, Fco Javier (Investigador/a). Duration: 01-01-2016 - 12-31-2019. Financing: 182710.00 Euros

C.3. Contratos, méritos tecnológicos o de transferencia

Contract (Participant entities: . Ref:). Analisis de tráfico y supercomputación de sobremesa. Equip: Aracil Rico, Javier (Director). Duration: 2016-10-11 - 2017-10-11. Financiation: 10000.00

C.5. Dirección de trabajos

Doctoral Thesis: Large-scale edge network monitoring. Institution: Graduado/a en Ingeniería Informática. Universidad Autónoma de Madrid. Date: 05-07-2021. Qualification: 90002. European: . Mention: . Date of Mención:

Final project (Bachelor): Monitorización de un conjunto de eventos producidos en sistemas. Institution: ESCUELA POLITÉCNICA SUPERIOR. Date: 10-01-2020. Qualification: . European: . Mention: . Date of Mención:

Final project (Bachelor): Interacción con usuario para reporte y diagnóstico de incidencias. Institution: ESCUELA POLITÉCNICA SUPERIOR. Date: 06-01-2020. Qualification: . European: . Mention: . Date of Mención:

Final project (Bachelor): Reconstrucción de caminos y detección de dispositivos. Institution: ESCUELA POLITÉCNICA SUPERIOR. Date: 05-01-2020. Qualification: . European: . Mention: . Date of Mención:

Doctoral Thesis: Explorando el proceso de recolección, análisis y visualización del tráfico en las redes de computadoras. Institution: Departamento de Tecnología Electrónica y de las Comunicaciones. EPS. Universidad Autónoma de Madrid. Date: 01-12-2018. Qualification: 90002. European: . Mention: . Date of Mención:

Doctoral Thesis: CONTRIBUCIÓN AL ANÁLISIS DEL TRÁFICO DE INTERNET. Institution: Universidad Autónoma de Madrid. Date: 06-26-2017. Qualification: 90002. European: . Mention: . Date of Mención:

Contract: Analisis de tráfico y supercomputación de sobremesa. Institution: . Date: 10-11-2016. Qualification: . European: . Mention: . Date of Mención:

Final project (Bachelor): Diseño de un filtro de paquetes ASCII en redes multi-Gb/s. Institution: Graduado/a en Ingeniería Informática. Universidad Autónoma de Madrid. Date: 01-01-2016. Qualification: . European: . Mention: . Date of Mención:

Daniel Perdicás; Jorge López de Vergara; Paula Roquero; Carlos Vega; Aracil Rico, Javier. 2017. Diluting the Scalability Boundaries: Exploring the Use of Disaggregated Architectures for High-Level Network Data Analysis. : IEEE International Conference on High Performance Computing and Communications (HPCC). 2017. . Speaker. IEEE INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING AND COMMUNICATIONS (HPCC) ISSN/ISBN: . Volumen: , Número: , Páginas: -

Jorge E. López de Vergara; David Muelas; Javier Ramos. 2017. Evaluacion de equipamiento de bajo coste para realizar medidas de red en entornos domesticos. Madrid: Universidad Autónoma de Madrid. 2017. España; : JITEL. 2017. España. Speaker. JORNADAS DE INGENIERÍA TELEMÁTICA ISSN/ISBN: . Volumen: , Número: , Páginas: 272-277

Daniel Perdicás; Jorge López de Vergara; Paula Roquero; Carlos Vega; Aracil Rico, Javier. 2017. FlexiTop: sistema escalable y flexible de medidas de calidad para servicios Over-The-Top. : JITEL. 2017. España. Speaker. JORNADAS DE INGENIERÍA TELEMÁTICA ISSN/ISBN: . Volumen: , Número: , Páginas: -

Aracil Rico, Javier. 2017. Valley Times in the Spanish Academic Network. Lisboa: IFIP/IEEE International Symposium on Integrated Network Management. 2017. Portugal. Speaker.

Aracil Rico, Javier. 2017. Application of Functional Feature Extraction to the Compression of Network Time Series. Lisboa: IFIP/IEEE International Symposium on Integrated Network Management. 2017. Portugal. Speaker. PROCEEDINGS OF IM 2017 ISSN/ISBN: . Volumen: , Número: , Páginas: -

Aracil Rico, Javier. 2017. On the Impact of TCP Segmentation: Experience in VoIP Monitoring. Lisboa: IFIP/IEEE International Symposium on Integrated Network Management. 2017. Portugal. Speaker. PROCEEDINGS OF IM 2017 ISSN/ISBN: . Volumen: , Número: , Páginas: -