

CV date	17/11/2024
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## Part A. PERSONAL INFORMATION

First name	Angel Alejandro		
Family name	Juan Perez		
Gender	Male	Birth date	
ID number			
Scopus Author	<a href="https://www.scopus.com/authid/detail.uri?authorId=56129392700">https://www.scopus.com/authid/detail.uri?authorId=56129392700</a>		
Web   e-mail	<a href="https://angeljuan.upv.es/">https://angeljuan.upv.es/</a>	<a href="mailto:ajuanp@upv.es">ajuanp@upv.es</a>	
Open Research and Contributor ID (ORCID)		0000-0003-1392-1776	

### A.1. Current position

Position	Full Professor (Catedrático de Universidad)		
Initial date: 10-dec-2021	Research 6-year periods: 4	Teaching 5-year periods: 4	
Institution	Universitat Politècnica de València (UPV)		
Departament/Center	Dept. of Applied Statistics and Operations Research / Alcoy Campus		
Country	Spain	Teleph.	655206798
Key words	Transportation, Business Analytics, Artificial Intelligence, Metaheuristics		
H-indexes	Scopus = 51; WoS = 46; GScholar = 69		

### A.2. Previous positions

Period	Position/Institution/Country/Interruption cause
2019 - 2024	Invited Researcher of Business Analytics at University College Dublin (Ireland)
2016 - 2024	Invited Researcher of Optimization at Universidade Aberta (Portugal)
2000 - 2021	Full Professor of Computer Science at Universitat Oberta de Catalunya (UOC)
2015 - 2021	Invited Researcher of Data Analytics at Euncet-UPC Business School
2010 - 2021	Invited Professor of Logistics at Universitat Autònoma de Barcelona (UAB)
2003 - 2013	Assistant Professor of Statistics at Universitat Politècnica de Catalunya (UPC)

### A.3. Education

PhD, Licensed, Graduate	University/Country	Year
BSc and MSc in Mathematics	Universitat de València (Spain)	1995
Postgraduate courses	Harvard University (USA)	1998
MSc in Information Systems	Universitat Oberta de Catalunya (Spain)	2003
PhD in Applied Mathematics	Univ. Nacional de Educación a Distancia (Spain)	2005

## Part B. CV SUMMARY

Dr. Angel A. Juan is a **Full Professor of Statistics and Operations Research** at Universitat Politècnica de València. Also accredited by ANECA as **Full Professor in Computing & Artificial Intelligence**, and by AQU as **Full Professor in Quantitative Methods for Economics & Business**, he has been an Invited Senior Researcher at University College Dublin (Ireland), a Full Professor in the Computer Science Dept. at Universitat Oberta de Catalunya, as well as Invited Researcher at Euncet Business School, Universitat Autònoma de Barcelona and Universitat Politècnica de Catalunya. Dr. Juan holds a Ph.D. in Applied Mathematics, an M.S. in Information Systems & Technology, and an M.S. & B.Sc. in Mathematics. He completed predoctoral internships at **Harvard University** (USA) and at Universidad de Alicante (Spain), and has been Visiting Researcher at **Massachusetts Institute of Technology** (USA), **Georgia Institute of Technology** (USA), University of Southampton (UK), University of Portsmouth (UK), Technical University of Dortmund (Germany), University College Dublin (Ireland), Trinity College Dublin (Ireland), LAAS-CNRS (France), University of Natural Resources and Life Sciences (Austria), University of Bologna (Italy), and University of Modena and Reggio Emilia (Italy). His main research interests include applications of Data Analytics, Optimization, Simulation, and Artificial Intelligence in **Computational Transportation & Logistics** and **Smart Cities**. He has published more than **185 articles**

in JCR-indexed journals and over 375 documents indexed in Scopus. Dr. Juan is or has been **Principal Investigator** in multiple R&D projects, including: four Spanish R&D projects, three European projects, two CYTED international networks, six Spanish networks of excellence, two France-Spain CTP networks, three regional projects, and four Erasmus+ Consortia. In addition, he has contributed as a researcher in many other R&D projects of international and national scope. Dr. Juan is one of the **founders of the European Decision Science Alliance**. He is a member of the Mathematics and Business Expert Panels of the Flanders Research Foundation (FWO) and the Agencia Andaluza del Conocimiento (AAC). He has been a Council member of the INFORMS i-Sim society, as well as an Executive Council member of the Spanish Society of Statistics and Operations Research (SEIO). He is also Referee of the Spanish State Research Agency (AEI) as well as Editorial Board member of several international journals: Internet of Things, J. of Simulation, European J. of Industrial Engineering, Algorithms, Int. J. of Data Analysis Techniques and Strategies, Int. J. of Educational Technology in Higher Education, etc. He has been general co-chair of several international conferences, as well as Proceedings Editor and Track Chair in the prestigious **Winter Simulation Conference**. Dr. Juan is the **Academic Director of the MEng in Computational Engineering & Industrial Mathematics at UPV**, and has been the **Academic Director of the MBA at UPV**. He has been co-founder and Academic Director of the URV-UOC MSc. in Computational Engineering & Mathematics as well as of the UOC MSc. in Bioinformatics & Biostatistics. He has also been the UOC Academic Director of the inter-university Doctoral Program in Bioinformatics (Data Science). He has supervised over 15 PhD theses, 70+ MSc. theses, and 100+ BSc. theses (already finished) in up to 8 different universities in Spain, the UK, Ireland, Portugal, Germany, and the Netherlands. Dr. Juan has **4 CNEAI research/transfer periods** and has been included in different national and international rankings, such as the ones provided by the DIH Group, and the Research.com, both in the areas of Mathematics and Computer Science.

## Part C. RELEVANT MERITS

### C.1. Publications (only recent articles are included, check <http://ajuanp.upv.es> for a complete list)

- Saiz, M.; Calvet, L.; Juan, A.A.; Lopez, D. (2024): "A Simheuristic for Project Portfolio Optimization combining Individual Project Risk, Scheduling Effects, Interruptions, and Project Risk Correlations". Computers and Industrial Engineering.
- Castillo, C.; Panadero, J.; Alvarez, E.; Juan, A.A. (2024): "Towards greener city logistics: An application of agile routing algorithms to optimize the distribution of micro-hubs in Barcelona". European Transport Research Review.
- Ghorbani, E.; Gomez, J.; Panadero, J.; Juan, A.A. (2024): "A sim-learnheuristic algorithm for solving a stochastic and dynamic capacitated dispersion problem". AIMS Mathematics.
- Panadero, J.; Juan, A.A.; Ghorbani, E.; Faulin, J.; Pages-Bernaus, A. (2024): "Solving the Stochastic Team Orienteering Problem: Comparing Simheuristics with the Sample Average Approximation Method". Int. Transactions in Operational Research.
- Neroni, M.; Juan, A.A.; Bertolini, M. (2024): "A Multi-Start Biased-Randomized Algorithm for Solving a 3-Dimensional Case Picking Problem with Real-Life Constraints". Int. Transactions in Operational Research.
- Peidro, D.; Martin, X.; Panadero, J.; Juan, A.A. (2024): "Solving the Uncapacitated Facility Location Problem under Uncertainty: A Hybrid Tabu Search with Path-Relinking Simheuristic Approach". Applied Intelligence.
- Castillo, C.; Alvarez, E.; Calvet, L.; Panadero, J.; Viu-Roig, M.; Serena, A.; Juan, A.A. (2024): "Home HealthCare in Spanish Rural Areas: Applying Vehicle Routing Algorithms to Health Transport Management". Socio-Economic Planning Sciences.
- Campos, N.; Corlu, C.; Nogal, M.; Juan, A.A.; Caliz, C. (2024): "Simulation-based Mathematical Learning for Higher Education students from Heterogeneous Backgrounds". Journal of Simulation.
- Neroni, M.; Panadero, J.; Ghorbani, E.; Ammouriova, M.; Juan, A.A. (2024): "An Agile Optimization Algorithm for the Multi-Source Team Orienteering Problem". European Journal of Industrial Engineering.
- Calvet, L.; Benito, S.; Juan, A.A.; Prados, F. (2023): "On the Role of Metaheuristic Optimization in Bioinformatics". Int. Transactions in Operational Research, 30(6), 2909-2944.
- Garcia, P.; Li, Y.; Lopez, D.; Juan, A.A. (2023): "Strategic Decision Making in Home Ecosystems: a review on the use of Artificial Intelligence and Internet of Things". Internet of Things, 100772.
- Tordecilla, R.; Montoya, J.; Quintero, C.; Panadero, J.; Juan, A.A. (2023): "The Location Routing Problem with Facility Sizing Decisions". Int. Transactions in Operational Research, 30(2), 915-945.
- Castaneda, J.; Calvet, L.; Benito, S.; Tondar, A.; Juan, A.A. (2023): "Data Science, Analytics and Artificial Intelligence in e-Health: trends, applications and challenges". SORT-Statistics and Operations Research Transactions, 81-128.

- Martin, X.; Panadero, J.; Peidro, D.; Perez, E.; Juan, A.A. (2023): "Solving the Time Capacitated Arc Routing Problem under Fuzzy and Stochastic Travel and Service Times". *Networks*, 82, 318-335.
- Nieto, A.; Serra, M.; Juan, A.A.; Bayliss, C. (2023): "A GA-Simheuristic for the Stochastic and Multi-Period Portfolio Optimisation Problem with Liabilities". *Journal of Simulation*, 17(5), 632-645.
- Juan, A.A.; Marti, R.; Keenan, P.; Panadero, J.; McGarraghy, S.; Carroll, P.; Oliva, D. (2023): "A Review of the Role of Heuristics in Stochastic Optimisation: from metaheuristics to learnheuristics". *Annals of Operations Research*, 320(2), 831-861.
- Arnau, Q.; Panadero, J.; Barrena, E.; de la Torre; Juan, A.A. (2022): "A Biased-Randomized Discrete-Event Heuristic for Coordinated Multi-Vehicle Container Transport across Interconnected Networks". *European Journal of Operational Research*, 302(1), 348-362.
- Cota, P.; Nogueira, T.; Juan, A.A.; Ravetti, M. (2021): "Integrating Vehicle Scheduling and Open Routing Decisions in a Cross-Docking Center with Multiple Docks". *Computers and Industrial Engineering*, 164(22): 107869.
- Kizys, R.; Doering, J.; Juan, A.\*; Polat, O.; Calvet, L.; Panadero, J. (2021): "A Simheuristic Algorithm for the Portfolio Optimisation Problem with Random Returns and Noisy Covariances". *Computers & Operations Research*.
- Cesarano, L.; Croce, A. Martins, L.; Tarchi, D.; Juan, A. (2021): "A Real-time Energy-Saving Mechanism in Internet of Vehicles Systems". *IEEE Access*.
- Raba, D.; Tordecilla, R.; Copado, P.; Juan, A.; Mount, D. (2021): "A Digital Twin for Decision Making on Livestock Feeding". *INFORMS Journal on Applied Analytics*.
- Marmol, M.; Goyal, A.; Copado, P.; Panadero, J.; Juan, A.\* (2021): "A Biased-Randomized Algorithm for Maximizing Customers' Lifetime Value using Limited Marketing Resources". *Marketing Intelligence and Planning*, 39(8).
- Martins, L.; Gonzalez, E.; Hatami, S.; Juan, A.; Montoya, J. (2021): "Combining Production and Distribution in Supply Chains: the Hybrid Flow-Shop Vehicle Routing Problem". *Computers and Industrial Engineering*.
- Martins, L.; Tarchi, D.; Juan, A.; Fusco, A. (2021): "Agile Optimization for Real-Time Facility Location Problem in Internet of Vehicle Scenarios". *Networks*.
- Keenan, P.; Panadero, J.; Juan, A.\*; Marti, R.; McGarraghy, S. (2021): "A Strategic Oscillation Simheuristic for the Time Capacitated Arc Routing Problem with Stochastic Demands". *Computers & Operations Research*, 133, 105377.
- Alvarez, E.; Calvet, L.; Viu, M.; Gandouz, M.; Juan, A. (2021): "Economic profitability of last-mile food delivery services: Lessons from Barcelona". *Research in Transportation Business & Management*.
- Abdullahi, H.; Reyes, L.; Ouelhadj, D.; Faulin, J.; Juan, A. (2021): "Modelling and multi-criteria analysis of the sustainability dimensions for the green vehicle routing problem". *European Journal of Operational Research*, 292(1), 143-154.
- Latorre, I.; Ferone, D.; Juan, A.; Faulin, J. (2021): "Combining Simheuristics with Petri Nets for Solving the Stochastic Vehicle Routing Problem with Correlated Demands". *Expert Systems with Applications*, 168, 114240.
- Martins, L.; de la Torre, R.; Corlu, C.; Juan, A.; Masmoudi, M. (2021): "Optimizing Ride-Sharing Operations in Smart Sustainable Cities: review, challenges, and the need for agile algorithms". *Computers and Industrial Engineering*, 153, 107080.
- Villarinho, P.; Panadero, J.; Pessoa, L.; Juan, A.; Cyrino, F. (2021): "A Simheuristic Algorithm for the Stochastic Permutation Flow-Shop Problem with Delivery Dates and Cumulative Payoffs". *Int. Transactions in Operational Research*, 28(2), 716-737.
- Martins, L.; Hirsch, P.; Juan, A.\* (2021): "Agile Optimization of a Two-Echelon Vehicle Routing Problem with Pick-up and Delivery". *Int. Transactions in Operational Research*, 28(1): 201-221.
- Alvarez, S.; Ferone, D.; Juan, A.; Tarchi, D. (2021): "A Simheuristic Algorithm for Video Streaming Flows Optimization with QoS Threshold Modeled as a Stochastic Single-Allocation p-Hub Median Problem". *Journal of Simulation*.
- Saiz, M.; Lostumbo, M.; Juan, A.; Lopez, D. (2021): "A Clustering-based Review on Project Portfolio Optimization". *Int. Transactions in Operational Research*.
- Tordecilla, R.; Juan, A.\*; Montoya, J.; Quintero, C.; Panadero, J. (2021). "Simulation-Optimization Methods for Designing Resilient Supply Chain Networks under Uncertainty Scenarios: A Review". *Simulation Modelling Practice and Theory*, 106, 102166.

**C.2. Congress** (please, check <https://ajuapn.upv.es/3-conferences/> for a complete list)

**C.3. Research projects** (only recent research projects are included, more than 3.5M€ as PI)

- 2023-2027: "Randomised Optimisation Algorithms Research Network". Cost Action CA22137.

- 2024-2027 (60.00): "AI4AGROIB: Red iberoamericana para el desarrollo de sistemas inteligentes para la agricultura". Programa Iberoamericano de Ciencia y Tecnología para el Desarrollo (CYTED).
- 2023-2025 (177.25): "Applications of Data Science and Artificial Intelligence in Sustainable Transport and Mobility". Programa Investigo – Generalitat Valenciana (INVEST/2023/304).
- 2023-2026 (136.25): "Artificial Intelligence and IoT for Optimizing Energy Consumption in Transportation with Electric Vehicles". Spanish Ministry of Science and Innovation.
- 2023-2025 (22.00): "Spanish Network in Transportation, Artificial Intelligence, and Data Analytics (TRA-AI Network)". Spanish Ministry of Science and Innovation.
- 2023-2023 (7.00): "AlcoyTech International Workshop on Artificial Intelligence & Optimization".
- 2022-2024 (115.00): "Validation of transferable results of optimisation of zero-defect enabling production technologies for supply chain 4.0 (CADS4.0-II)". Spanish Ministry of Science and Innovation.
- 2022-2023 (5.00): "Análítica de datos e inteligencia artificial para optimizar el tratamiento de la obesidad infantil: estudio preliminar (OBESIPED-IA)". Fundación Fisabio – Generalitat Valenciana.
- 2022-2023 (20.00): "Artificial Intelligence to Improve the Learning Experience in Universities with Online and Hybrid Models". Llabor AGAUR (2021 LLAV 00009).
- 2022-2025 (347.77): "SUN: Social and hUman ceNtered XR". HORIZON-CL4-2022-HUMAN-01-14-101092612.
- 2022-2025 (327.25): "UP2030: Urban Planning and Design Ready for 2030". HORIZON-MISS-2021-CIT-02-01-101096405, HORIZON-IA, 101096405.
- 2022-2024 (66.22): "Algoritmos Inteligentes y Analítica de Datos en Logística Urbana Sostenible". Programa Investigo – Generalitat Valenciana (INVEST/2022/342, Key: 20220713).
- 2022-2025 (33.96): "Industrial Doctorate: Applications of Data Analytics and X-Heuristics in Logistics". AGAUR – Logisfashion (2022 DI 013).
- 2022-2025 (15.80): "Upscaling Innovative Green Urban Logistics Solutions Through Multi-Actor Collaboration and PI-Inspired Last Mile Deliveries". HORIZON-CL5-2021-D6-01-08.
- 2021-2025 (28.78): "Industrial Production and Logistics Optimization in Industry 4.0 (i4OPT)". PROMETEO/2021/065 – Generalitat Valenciana.
- 2022-2022 (23.88/90.16): "AI 4 Bots: Nuevas Aplicaciones Sostenibles en Inteligencia Artificial en Robótica Móvil". Spanish Ministry of Industry, Commerce and Tourism (AEI-010500-2021b-54).
- 2022-2024: "AI Driven Industrial Equipment Product Life Cycle Boosting Agility, Sustainability and Resilience". HORIZON-CL4-2021-TWIN-TRANSITION-01-07 (101057294 AIDEAS).
- 2020-2024: "Transportation and Logistics in Smart and Sustainable Cities". PhD grant M. Peyman. Spanish Ministry of Science and Innovation (PRE2020-091842).

#### C.4. Contracts, technological or transfer merits **(only recent transfer contracts as PI are included)**

- 2023-2026 (38.72): "Machine Learning and Data Science Applications to Sustainable Logistics". Coca-Cola Iberia.
- 2023-2026 (108.90): "Algorithms of Artificial Intelligence and Data Analytics in Transportation and Supply Chain Logistics". Coca-Cola Iberia.
- 2023-2024 (42.35): "Applications of Artificial Intelligence to Classification and Fraud Detection in the Insurance Sector". Union Alcoyana Seguros.
- 2023-2025 (30.00): "Combining Integrated Simulation Software with Advanced Optimization Methods". Simul8 Simulation Software.
- 2023-2025 (45.00): "Artificial Intelligence in Finance and Insurance". Guy Carpenter.
- 2022-2025 (33.96): "Industrial Doctorate: Applications of Data Analytics and X-Heuristics in Logistics". AGAUR – Logisfashion (2022 DI 013).
- 2021-2025 (30.00): "Integrating Optimization into Simulation Software". FlexSim Simulation Software.
- 2022-2023 (150.00): "Optimizing Carsharing and Ridesharing Mobility in Smart Sustainable Cities". Ajuntament de Barcelona – La Caixa (21S09355-001). Lead researcher: Angel A. Juan.

#### C.5. Other merits

- Accredited as Full Professor (Catedrático) in 'Computing & Artificial Intelligence' (ANECA), 'Statistics & Operations Research' (ANECA) and 'Quantitative Methods in Economics and Business' (AQU).
- Has been Full Professor in the **Computer Science Dept. at the Universitat Oberta de Catalunya**, and is currently Full Professor of Statistics & OR at UPV.
- Ranked as **#51 in Computer Science in Spain** (#6 at UPV) and **#13 in Mathematics** (<https://research.com/u/angel-a-juan>)
- Ranked as **#2 in Operations Research** among all researchers in Spain (<https://grupodih.info/matemat.html#OPERATIONSRESEARCH&MANAGEMENTSCIENCE>)