

EDGAR BATISTA

CURRICULUM VITAE (September 2024)



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EDGAR BATISTA (Reus, 1992) is a postdoctoral researcher in the Department of Computer Engineering and Mathematics at Universitat Rovira i Virgili (URV) in Tarragona, Spain. He received his Ph.D. in Computer Engineering from URV in 2022 with honours (*A cum laude, Best Dissertation Award*). He also obtained his M.Sc. in Computer Security and Intelligent Systems in 2017 (Grade 9.21/10), and his B.Sc. in Computer Engineering in 2015 with honours (*Outstanding Graduation Award, Grade 8.17/10*), both from URV. He serves as an adjunct professor at URV since 2020, and as an affiliated teaching staff at Universitat Oberta de Catalunya (UOC) since 2023. He has participated in several national and international research projects covering different activities, including research, development, testing and validation, and dissemination. He has authored more than 40 scientific publications, including journals, international conferences and book chapters. His fields of interest are smart technologies, smart health, ubiquitous computing, data science, information security, and data privacy.

Summary of CV Indicators

Indicator	Value	Comments
Lecturer accreditation	Yes	By AQU Catalunya (2022)
Awards	6	
Research		
Publications in indexed journals	11	8 Q1-JCR/SJR, 3 Q2-JCR/SJR
Publications in conferences	31	1 CORE B, 1 CORE C
Other publications	7	Books, chapters, non-indexed journals. . .
Participation in research projects	12	4 European, 4 Spanish, 4 Catalan
Citations		
Google Scholar	534	<i>h</i> -index = 14
Scopus	334	<i>h</i> -index = 11
Web of Science	184	<i>h</i> -index = 8
Teaching		
Subjects taught	3	Undergraduate and graduate levels
No. of ECTS taught	41.6	
B.Sc. theses advised	5	
Academic Activities		
Reviewer in journals	2	
Oral presentations in conferences	16	
Conference organisation	10	
Hours of additional courses	106	

EDUCATION & ACCREDITATIONS

1. [2022] Accredited by AQU Catalunya as Tenure-Track Lecturer (in Catalan: Professor lector).
2. [2022] Ph.D. in Computer Engineering, Universitat Rovira i Virgili, Tarragona, Spain. Date of public defense: May 24, 2022. Grade: *A cum laude*
Best Dissertation Award.
3. [2017] M.Sc. in Computer Engineering: Computer Security & Intelligent Systems, Universitat Rovira i Virgili, Tarragona, Spain. Grade: 9.21/10.
4. [2015] B.Sc. in Computer Engineering, Universitat Rovira i Virgili, Tarragona, Spain. Grade: 8.17/10.
Outstanding Graduation Award.

POSITIONS

1. [Since Sep. 2023] Affiliated teaching staff (in Catalan: Professor col·laborador) at Universitat Oberta de Catalunya, Barcelona, Spain.
2. [Since Dec. 2021] Researcher at the Smart Technologies Research Group, Universitat Rovira i Virgili, Tarragona, Spain.
3. [Since Sep. 2020] Adjunct professor (in Catalan: Professor associat) in the Department of Computer Engineering and Mathematics at Universitat Rovira i Virgili (URV), Tarragona, Spain.
4. [June 2020 – Nov. 2021] Data scientist at Aproximacions Santa Tecla, Tarragona, Spain.
5. [June 2020 – Oct. 2021] Cybersecurity research projects assistant at the Anti-Phishing Working Group EU (APWG.EU), Barcelona, Spain.
6. [June 2017 – June 2020] Industrial doctorate grant-holder at SIMPPLE, Tarragona, Spain.
7. [June 2014 – March 2017] Research assistant at the Smart Health Research Group (current name: Smart Technologies), Universitat Rovira i Virgili, Tarragona, Spain.
8. [Oct. 2013 – Feb. 2014] Software developer (curricular internship) at Centro de Cálculo IGS Software, La Pobla de Mafumet, Spain.

AWARDS

(6)

1. [2023] Best Dissertation Award (*Best Ph.D. thesis of the Ph.D. programme in Computer Science and Mathematics of Security in 2022*), Universitat Rovira i Virgili.
2. [2019] Best Communication Award for “AlerGo: desenvolupament d’una app i web dirigides a la gestió i supervisió de pacients que realitzen immunoteràpia oral a aliments” in Jornada de Cloenda de la Societat Catalana d’Al·lèrgia i Immunologia Clínica (SCAIC), Barcelona, Spain.
3. [2018] Best Paper Award for “Smart Healthcare in the IoT Era: A Context-Aware Recommendation Example” in the 1st Int. Conf. on Sensing and Instrumentation in IoT Era (ISSI), Shanghai, China.
4. [2016] Awarded by Col·legi Oficial d’Enginyeria en Informàtica de Catalunya (COEINF) for being the best student of the B.Sc. in Computer Engineering of the 2014/15 class.
5. [2016] Awarded by Grup Caixa d’Enginyers for being the best student of the B.Sc. in Computer Engineering of the 2014/15 class.
6. [2016] Outstanding Graduation Award (*Best student of the B.Sc. in Computer Engineering of the 2014/15 class*), Universitat Rovira i Virgili.

INDEXED JOURNALS

(11)

1. [2024] E. Figueroa, E. Batista, R. Palau, O. Unciti, M. Ferre, and A. Martínez-Ballesté, “The Use of Artificial Intelligence Techniques in Smart Classrooms is in its Infancy”, IEEE Access, IEEE, 2024. ISSN: 2169-3536. doi: 10.1109/ACCESS.2024.3454372.
 - *JCR 2023*: IF 3.4, **Q2**: Computer Science, Information Systems (87/249)
 - *SJR 2023*: 0.96, **Q1**: Computer Science (miscellaneous)
2. [2024] M. C. Bernal, E. Batista, A. Martínez-Ballesté, and A. Solanas, “Artificial intelligence for the study of human ageing: a systematic literature review”, Applied Intelligence, Springer, 2024. ISSN: 0924-669X. doi: 10.1007/s10489-024-05817-z.
 - *JCR 2023*: IF 3.4, **Q2**: Computer Science, Artificial Intelligence (78/197)
 - *SJR 2023*: 1.193, **Q2**: Artificial Intelligence
3. [2024] E. Batista, P. López-Aguilar, and A. Solanas, “Smart Health in the 6G Era: Bringing Security to Future Smart Health Services”, IEEE Communications Magazine, vol. 62, issue 6, pp. 74-80, IEEE, 2024. ISSN: 0163-6804. doi: 10.1109/MCOM.019.2300122.
 - *JCR 2023*: IF 8.3, **Q1 - First decile**: Telecommunications (7/119)
 - *SJR 2023*: 5.631, **Q1**: Computer Networks and Communications
4. [2022] E. Batista, A. Martínez-Ballesté, and A. Solanas, “Privacy-preserving process mining: A microaggregation-based approach”, Journal of Information Security and Applications, vol. 68, art-no. 103235, Elsevier, 2022. ISSN: 2214-2126. doi: 10.1016/j.jisa.2022.103235.
 - *JCR*: IF 5.6, **Q2**: Computer Science, Information Systems (41/158)
 - *SJR*: 1.279, **Q1**: Computer Networks and Communications
5. [2022] P. López-Aguilar, E. Batista, A. Martínez-Ballesté, and A. Solanas, “Information Security and Privacy in Railway Transportation: A Systematic Review”, Sensors, vol. 22, issue 20, art-no. 7698, MDPI, 2022. ISSN: 1424-8220. doi: 10.3390/s22207698.
 - *JCR*: IF 3.9, **Q2**: Instruments & Instrumentation (19/63)
 - *SJR*: 0.764, **Q1**: Instrumentation
6. [2022] F. Casino, C. Pina, P. López-Aguilar, E. Batista, A. Solanas, and C. Patsakis, “SoK: cross-border criminal investigations and digital evidence”, Journal of Cybersecurity, vol. 8, issue 1, art-no. tyac014, Oxford Academic, 2022. ISSN: 2057-2085. doi: 10.1093/cybsec/tyac014.
 - *JCR*: IF 2.3
 - *SJR*: 0.812, **Q1**: Computer Science (miscellaneous)
7. [2021] E. Batista and A. Solanas, “A uniformization-based approach to preserve individuals’ privacy during process mining analyses”, Peer-to-Peer Networking and Applications, vol. 14, pp. 1500-1519, Springer, 2021. ISSN: 1936-6442. doi: 10.1007/s12083-020-01059-1.
 - *JCR*: IF 3.488, **Q2**: Computer Science, Information Systems (78/164)
 - *SJR*: 0.771, **Q2**: Computer Networks and Communications
8. [2021] E. Batista, M. A. Moncusi, P. López-Aguilar, A. Martínez-Ballesté, and A. Solanas, “Sensors for Context-Aware Smart Healthcare: A Security Perspective”, Sensors, vol. 21, issue 20, art-no. 6886, MDPI, 2021. ISSN: 1424-8220. doi: 10.3390/s21206886.
 - *JCR*: IF 3.847, **Q2**: Instruments & Instrumentation (19/64)
 - *SJR*: 0.803, **Q1**: Instrumentation
9. [2021] J. Machin, E. Batista, A. Martínez-Ballesté, and A. Solanas, “Privacy and Security in Cognitive Cities: A Systematic Review”, Applied Sciences, vol. 11, issue 10, art-no. 4471, MDPI, 2021. ISSN: 2076-3417. doi: 10.3390/app11104471.

- *JCR*: IF 2.838, **Q2**: Engineering, Multidisciplinary (39/92)
 - *SJR*: 0.507, **Q2**: Engineering (miscellaneous)
10. [2021] M. Ferre, E. Batista, A. Solanas, and A. Martínez-Ballesté, “Smart Health-Enhanced Early Mobilisation in Intensive Care Units”, *Sensors*, vol. 21, issue 16, art-no. 5408, MDPI, 2021. ISSN: 1424-8220. doi: 10.3390/s21165408.
 - *JCR*: IF 3.847, **Q2**: Instruments & Instrumentation (19/64)
 - *SJR*: 0.803, **Q1**: Instrumentation
 11. [2017] F. Casino, C. Patsakis, E. Batista, F. Borrás, and A. Martínez-Ballesté, “Healthy Routes in the Smart City: A Context-Aware Mobile Recommender”, *IEEE Software*, vol. 34, issue 6, pp. 42-47, IEEE, 2017. ISSN: 0740-7459. doi: 10.1109/MS.2017.4121209.
 - *JCR*: IF 2.879, **Q1**: Computer Science, Software Engineering (13/104)
 - *SJR*: 0.449, **Q2**: Software

CONFERENCES

(31)

1. [2024] E. Batista, L. Cot, V. Pérez, and A. Martínez-Ballesté, “Real-Time Emotion Assessment System in Smart Classrooms using Wearable Bracelets”, in *Proc. 18th Int. Conf. on Mobile Ubiquitous Computing, Systems, Services and Technologies (UBICOMM)*, XPS, Venice, Italy, 29 September-3 October, 2024.
 - *CORE*: C
2. [2024] A. Martínez-Ballesté, E. Batista, E. Figueroa, G. Fretes Torruella, C. Llurba, J. Quiles-Rodríguez, O. Unciti, and R. Palau, “A Proposal for the Smart Classroom Infrastructure using IoT and Artificial Intelligence”, in *Proc. 48th IEEE Int. Conf. on Computers, Software, and Applications (COMPSAC)*, pp. 109-114, IEEE, Osaka, Japan, 2-4 July, 2024. ISBN: 979-8-3503-7696-8. doi: 10.1109/COMPSAC61105.2024.00025.
 - *CORE*: B; *GGs*: 3/B; *LiveSHINE*: A-; *MA*: B
3. [2023] E. Batista, A. Martínez-Ballesté, J. Rosell-Llompart, and A. Solanas, “Towards Context-Aware Classrooms: Lessons Learnt from the ACTUA project”, in *11th Int. Conf. on Applications in Electronics Pervading Industry, Environment and Society (ApplePies)*, vol. 1101 (LNEE), pp. 399-404, Springer, Genova, Italy, 28-29 September, 2023. ISBN: 978-3-031-48120-8. doi: 10.1007/978-3-031-48121-5_57.
4. [2023] J. Machin, E. Batista, and A. Solanas, “Multi-Agent Systems for Pervasive Electronics: A Case Study in School Classrooms”, in *11th Int. Conf. on Applications in Electronics Pervading Industry, Environment and Society (ApplePies)*, vol. 1101 (LNEE), pp. 474-479, Springer, Genova, Italy, 28-29 September, 2023. ISBN: 978-3-031-48120-8. doi: 10.1007/978-3-031-48121-5_68.
5. [2023] M. Calonge, E. Batista, J. Hernández-Castro, and A. Solanas, “Where are my cryptos?”, in *11th Int. Conf. on Applications in Electronics Pervading Industry, Environment and Society (ApplePies)*, vol. 1101 (LNEE), pp. 480-486, Springer, Genova, Italy, 28-29 September, 2023. ISBN: 978-3-031-48120-8. doi: 10.1007/978-3-031-48121-5_69.
6. [2022] E. Batista, O. Villanova, J. Rosell-Llompart, F. J. Huera-Huarte, A. Martínez-Ballesté, and A. Solanas, “On the Deployment of Low-Cost Sensors to Enable Context-Aware Smart Classrooms”, in *10th Int. Conf. on Applications in Electronics Pervading Industry, Environment and Society (ApplePies)*, vol. 1036 (LNEE), pp. 333-338, Springer, Genova, Italy, 26-27 September, 2022. ISBN: 978-3-031-30332-6. doi: 10.1007/978-3-031-30333-3_45.
7. [2022] A. Martínez-Ballesté, N. Villalobos, E. Batista, P. López-Aguilar, and A. Solanas, “Ticketing Systems for Smart Public Transportation: Tools at the User Side”, in *10th Int. Conf. on Applications in Electronics Pervading Industry, Environment and Society (ApplePies)*, vol. 1036 (LNEE), pp. 229-234, Springer, Genova, Italy, 26-27 September, 2022. ISBN: 978-3-031-30332-6. doi: 10.1007/978-3-031-30333-3_30.
8. [2022] O. Villanova, E. Batista, A. Solanas, A. Martínez-Ballesté, F. J. Huera-Huarte, A. Fabregat, A. Vernet, and J. Rosell-Llompart, “Sensing Kit for the Study of Respiratory Disease Transmission in School Classrooms”,

- in 11th Int. Aerosol Conf. (IAC), pp. 825, Athens, Greece, 4-9 September, 2022.
9. [2020] A. Enfadaque, V. Gázquez, A. Martínez-Ballesté, E. Batista, O. Estesó, G. Dalmau, and P. Gaig, “AlerGo project: Development of an app and website for the management and supervision of patients undergoing oral food immunotherapy”, in Eur. Academy of Allergy and Clinical Immunology Dig. Cong. (EAACI), pp. 329, Willey, 6-8 June, 2020.
 10. [2019] A. Enfadaque, V. Gázquez, A. Martínez-Ballesté, E. Batista, G. Dalmau, and P. Gaig, “Proyecto AlerGo: desarrollo de una app y web dirigidas a la gestión y supervisión de pacientes que realizan inmunoterapia oral a alimentos”, in Simp. Int. Avances y Perspectivas en Alergia Cutánea e Inmunología (SEAIC), vol. 29, issue 1, pp. 146, Maspalomas, Spain, 23-26 October, 2019. ISSN: 1018-9068. In Spanish.
 11. [2019] E. Batista, F. Falcone, A. Martínez-Ballesté, and A. Solanas, “The Promising Future of Process Mining with the Internet of Events in Context-Aware Environments”, in 2nd Int. Conf. on Sensing and Instrumentation in IoT Era (ISSI), pp. 1-6, IEEE, Lisbon, Portugal, 29-30 August, 2019. ISBN: 978-1-7281-1022-6. doi: 10.1109/ISSI47111.2019.9043725.
 12. [2019] E. Batista and A. Solanas, “Skip Miner: Towards the Simplification of Spaghetti-like Business Process Models”, in 10th Int. Conf. on Information, Intelligence, Systems and Applications (IISA), pp. 1-6, IEEE, Patras, Greece, 15-17 July, 2019. ISBN: 978-1-7281-4959-2. doi: 10.1109/IISA.2019.8900713.
 13. [2019] A. Martínez-Ballesté, P. Gimeno, A. Mariné, E. Batista, and A. Solanas, “e-PEMICU: an e-Health Platform to Support Early Mobilisation in Intensive Care Units”, in 10th Int. Conf. on Information, Intelligence, Systems and Applications (IISA), pp. 1-6, IEEE, Patras, Greece, 15-17 July, 2019. ISBN: 978-1-7281-4959-2. doi: 10.1109/IISA.2019.8900718.
 14. [2019] P. López-Iturri, M. Celaya-Echarri, E. Aguirre, L. Azpilicueta, E. Batista, A. Solanas, and F. Falcone, “Intra-Train Connectivity Analysis to Enable Context Aware Passenger Environments”, in 10th Int. Conf. on Information, Intelligence, Systems and Applications (IISA), pp. 1-5, IEEE, Patras, Greece, 15-17 July, 2019. ISBN: 978-1-7281-4959-2. doi: 10.1109/IISA.2019.8900730.
 15. [2019] A. Enfadaque, V. Gázquez, A. Martínez-Ballesté, E. Batista, O. Estesó, G. Dalmau, and P. Gaig, “Projecte AlerGo: desenvolupament d’una app i web dirigides a la gestió i supervisió de pacients que realitzen immunoteràpia oral a aliments”, in Jornada de Cloenda de la Societat Catalana d’Al·lèrgia i Immunologia Clínica (SCAIC), Barcelona, Spain, 14-15 June, 2019. In Catalan.
– *Best Communication Award*.
 16. [2019] E. Batista, “Process Mining and Spaghetti Business Processes: An Uneasy Relationship”, in 5th URV Doctoral Workshop in Computer Science and Mathematics (DCSM), pp. 64-72, Publicacions URV, Tarragona, Spain, 22 May, 2019. ISBN: 978-84-8424-762-3.
 17. [2018] E. Batista, A. Martínez-Ballesté, M. Peña, X. Singla, and A. Solanas, “HGIS: A Healthcare-Oriented Approach to Geographic Information Systems”, in 6th Int. Conf. on Applications in Electronics Pervading Industry, Environment and Society (ApplePies), vol. 573 (LNEE), pp. 59-65, Springer, Pisa, Italy, 26-27 September, 2018. ISBN: 978-3-030-11972-0. doi: 10.1007/978-3-030-11973-7_8.
 18. [2018] F. Casino, C. Patsakis, E. Batista, O. Postolache, A. Martínez-Ballesté, and A. Solanas, “Smart Healthcare in the IoT Era: A Context-Aware Recommendation Example”, in 1st Int. Symp. on Sensing and Instrumentation in IoT Era (ISSI), pp. 1-6, IEEE, Shanghai, China, 6-7 September, 2018. ISBN: 978-1-5386-5638-9. doi: 10.1109/ISSI.2018.8538106.
– *Best Paper Award*.
 19. [2018] E. Batista and A. Solanas, “Process Mining in Healthcare: A Systematic Review”, in 9th Int. Conf. on Information, Intelligence, Systems and Applications (IISA), pp. 1-6, IEEE, Zakynthos, Greece, 23-25 July, 2018. ISBN: 978-1-5386-8161-9. doi: 10.1109/IISA.2018.8633608.
 20. [2018] A. Martínez-Ballesté, A. Al-Molegi, and E. Batista, “On the Detection of Wandering Using Trajectories Datasets”, in 9th Int. Conf. on Information, Intelligence, Systems and Applications (IISA), pp. 1-6, IEEE,

- Zakynthos, Greece, 23-25 July, 2018. ISBN: 978-1-5386-8161-9. doi: 10.1109/IISA.2018.8633696.
21. [2017] E. Batista and A. Solanas, “Privacy-Preserving Process Mining: Towards the new European General Data Protection Regulation”, in 2nd Cryptanalysis of Ubiquitous Computing Systems (CRYPTACUS) Workshop, pp. 22-24, Nijmegen, The Netherlands, 16-18 November, 2017.
 22. [2017] E. Batista, “Process Mining: Extracting Valuable Knowledge from Event Log Data”, in 4th URV Doctoral Workshop in Computer Science and Mathematics (DCSM), pp. 49-52, Publicacions URV, Tarragona, Spain, 17 November, 2017. ISBN: 978-84-8424-631-2.
 23. [2017] A. Solanas, F. Casino, E. Batista, and R. Rallo, “Trends and Challenges in Smart Healthcare Research: A Journey from Data to Wisdom”, in 3rd Int. Forum on Research and Technologies for Society and Industry (RTSI), pp. 1–6, IEEE, Módena, Italy, 11–13 September, 2017. ISBN: 978-1-5386-3906-1. doi: 10.1109/RTSI.2017.8065986.
 24. [2016] F. Casino, P. López-Iturri, E. Aguirre, L. Azpilicueta, F. Falcone, E. Batista, and A. Solanas, “Two-dimensional Collaborative Filtering Approach to Wireless Channel Characterization”, in 2nd IEEE Int. Smart Cities Conf. (ISC2), pp. 1–6, IEEE, Trento, Italy, 12–15 September, 2016. ISBN: 978-1-5090-1846-8. doi: 10.1109/ISC2.2016.7580801.
 25. [2016] E. Batista, F. Casino, and A. Solanas, “On wandering detection methods in context-aware scenarios”, in 7th Int. Conf. on Information, Intelligence, Systems and Applications (IISA), pp. 1–6, IEEE, Chalkidiki, Greece, 13–15 July, 2016. ISBN: 978-1-5090-3429-1. doi: 10.1109/IISA.2016.7785349.
 26. [2015] E. Batista, F. Borrás, A. Martínez-Ballesté, and A. Solanas, “An Intelligent System for Monitoring People with Dementia”, in 8th Clinical Trials for Alzheimer’s Disease Conf. (CTAD), pp. 324, JPAD, Barcelona, Spain, 5–7 November, 2015.
 27. [2015] E. Batista, F. Casino, and A. Solanas, “Wandering Detection Methods in Smart Cities: Current and New Approaches”, in 1st IEEE Int. Smart Cities Conf. (ISC2), pp. 1–2, IEEE, Guadalajara, Mexico, 25–28 October, 2015. ISBN: 978-1-4673-6552-9. doi: 10.1109/ISC2.2015.7366175.
 28. [2015] F. Casino, E. Batista, C. Patsakis, and A. Solanas, “Context-Aware Recommender for Smart Health”, in 1st IEEE Int. Smart Cities Conf. (ISC2), pp. 1–2, IEEE, Guadalajara, Mexico, 25–28 October, 2015. ISBN: 978-1-4673-6552-9. doi: 10.1109/ISC2.2015.7366176.
 29. [2015] E. Batista, F. Borrás, F. Casino, and A. Solanas, “A Study on the Detection of Wandering Patterns in Human Trajectories”, in 6th Int. Conf. on Information, Intelligence, Systems and Applications (IISA), pp. 1–6, IEEE, Corfu, Greece, 6–8 July, 2015. ISBN: 978-1-4673-9311-9. doi: 10.1109/IISA.2015.7387995.
 30. [2015] E. Batista, F. Borrás, and A. Martínez-Ballesté, “Monitoring People with MCI: Deployment in a Real Scenario for Low-Budget Smartphones”, in 6th Int. Conf. on Information, Intelligence, Systems and Applications (IISA), pp. 1–6, IEEE, Corfu, Greece, 6–8 July, 2015. ISBN: 978-1-4673-9311-9. doi: 10.1109/IISA.2015.7388101.
 31. [2015] A. Solanas, E. Batista, F. Borrás, A. Martínez-Ballesté, and C. Patsakis, “Wandering analysis with mobile phones: On the relation between randomness and wandering”, in 5th Int. Conf. on Pervasive and Embedded Computing and Communication Systems (PECCS), pp. 168–173, SciTePress, Angers, France, 11–13 February, 2015. ISBN: 978-989-758-084-0. doi: 10.5220/0005329601680173.

BOOKS

(2)

1. [2023] E. Batista, F. J. Huera-Huarte, A. Martínez-Ballesté, J. Rosell-Llompart, and A. Solanas, “El projecte ACTUA: Investigant la transmissibilitat dels virus respiratoris a les aules”, pp. 41, Llar Digital, 2023. ISBN: 978-84-127552-2-0. In Catalan.
2. [2022] E. Batista, “Contributions to Context-Aware Smart Healthcare: A Security and Privacy Perspective”, PhD Thesis, pp. 274, TDX, 2022. handle: 10803/675650.

BOOK CHAPTERS

(1)

1. [2021] A. Solanas, E. Batista, F. Casino, A. Papageorgious, and C. Patsakis, “Privacy-Oriented Analysis of Ubiquitous Computing Systems: A 5-D Approach”, in G. Avoine and J. Hernandez-Castro (eds), Security of Ubiquitous Computing Systems, pp. 201–213, Springer, 2021. ISBN: 978-3-030-10590-7. doi: 10.1007/978-3-030-10591-4_12.

NON-INDEXED JOURNALS

(2)

1. [2021] J.-O. Casanovas-Marsal, E. Batista, A. Martínez-Ballesté, and M. García-Martínez, “APANICU 1.0: sistema automático para la valoración del dolor en las unidades de cuidados intensivos neonatales”, Metas de Enfermería, vol. 24, issue 2, pp. 23–31, 2021. ISSN: 1138-7262. doi: 10.35667/MetasEnf.2021.24.1003081715. In Spanish.
2. [2017] J.-O. Casanovas-Marsal, E. Batista, A. Martínez-Ballesté, and M. García-Martínez, “Instrumentos: Prototipo real de valoración del dolor neonatal”, Enfermería, anestesia de reanimación y terapia del dolor, vol. 2, issue 1, pp. 1–7, Aseedar-td, 2017. ISSN: 2529-9670. In Spanish.

TECHNICAL REPORTS

(1)

1. [2017] F. Casino, C. Patsakis, A. Martínez-Ballesté, F. Borrás, and E. Batista, “Technical Report: Implementation and Validation of a Smart Health Application”, arXiv 1706.04109, pp. 1–4, 2017.

ONLINE

(1)

1. [2020] E. Batista, “Knowledge vs privacy: The healthcare dilemma”. Tecnonews [Online], 2020. Available at: https://www.tecnonews.info/opiniones/knowledge_vs_privacy_the_healthcare_dilemma.

RESEARCH PROJECTS PARTICIPATION

(12)

EUROPEAN PROJECTS

(4)

1. [2020 – 2024] “Goodbrother: Network on Privacy-Aware Audio- and Video-Based Applications for Active and Assisted Living”, COST action 19121. Team Member.
2. [2019 – 2022] “LOCARD: Lawful evidence collecting & continuity platform development”, GA 832735, Horizon 2020. Research Participant.
3. [2014 – 2018] “CRYPTACUS: Cryptanalysis of ubiquitous computing systems”, COST action IC1403. Research Participant.
4. [2014 – 2015] “SUAC3I: Secure User Authentication in Control Centres for Critical Infrastructures”, HOME/2013/CIPS/AG/4000005053. Research Participant.

SPANISH PROJECTS

(4)

1. [Since 2023] “SOC espacio”, CPP001/22, Instituto Nacional de Ciberseguridad de España (INCIBE). Research Participant.
2. [Since 2022] “CONDOR: Cognitive cOmputiNg Designed fOR Resilient cities”, PID2021-127409OB-C33, Plan Estatal de Investigación Científica, Técnica y de Innovación. Working Team Research Participant (In Spanish: Equipo de Trabajo).
3. [2016 – 2018] “HigiaCompass”, Centro para el Desarrollo Tecnológico Industrial (CDTI). Research Participant.
4. [2013 – 2015] “SIMPATIC: Intelligent System for Private and Autonomous Monitoring based on Information and Communications Technologies”, RECERCAIXA. Research Participant.

CATALAN PROJECTS

(4)

1. [2021 – 2023] “Artificial intelligence in the classroom: A post-connectivist approach”, 07GI2119, Ajuts per a la Innovació Docent (INDOC), Institut de Ciències de l’Educació, Universitat Rovira i Virgili. Team Member.
2. [2021 – 2023] “ACTUA: Contextual analysis of COVID-19 transmission mitigation factors in classrooms”, 2020PANDE00103, Agència de Gestió d’Ajuts Universitaris i de Recerca, Generalitat de Catalunya. Research Participant.
3. [2017] “AlerGo”, Institut d’Investigació Sanitària Pere Virgili (IISPV). Research Participant.
4. [2014 – 2015] “APANICU: Assessment of pain in newborns in neonatal ICUs with intelligent systems”, 2013R2B-06, R2B - Valorització del coneixement, Universitat Rovira i Virgili. Research Participant.

TEACHING

SUBJECTS

(41.6 ECTS)

1. [Since 2020/21] Information Systems in Organisations, B.Sc. in Computer Engineering, Universitat Rovira i Virgili.
 - **24 ECTS** (6 ECTS × 4 years)
 - Responsible for laboratory sessions and practical assignments.
2. [Since 2023/24] Data Science Fundamentals, M.Sc. in Data Science, Universitat Oberta de Catalunya.
 - **12 ECTS** (6 ECTS × 2 semesters)
3. [2021/22] Multimedia Services, B.Sc. in Telecommunication Systems and Services Engineering, Universitat Rovira i Virgili.
 - **5.6 ECTS**
 - Responsible for laboratory sessions and practical assignments.

B.SC. THESES ADVISED

(5)

1. [2024] Valeria Pérez Gil, “Comprehensive Analysis of Human Emotions using Artificial Intelligence Techniques”, B.Sc. in Biomedical Engineering, Universitat Rovira i Virgili (co. A. Martínez-Ballesté). Grade: 10/10.
2. [2024] Laia Cot Brescolí, “Real-Time Emotion Monitoring in Smart Classrooms based on Wearables”, B.Sc. in Telecommunication Systems and Services Engineering, Universitat Rovira i Virgili (co. A. Martínez-Ballesté). Grade: 9.2/10.
3. [2024] Marta Álvarez Fernández, “Análisis multivariante de la diabetes gestacional”, B.Sc. in Biomedical Engineering, Universitat Rovira i Virgili (co. A. Solanas). Grade: 7.3/10.
4. [2024] Angel Parra Cuadrado, “Análisis de datos: Investigación de la transmisibilidad de los virus respiratorios en las aulas”, B.Sc. in Computer Engineering, Universitat Rovira i Virgili (co. A. Solanas). Grade: 9/10.
5. [2023] Sergio Arévalo Roa, “Phishing y psicología: una plataforma de evaluación”, B.Sc. in Computer Engineering, Universitat Rovira i Virgili (co. A. Solanas). Grade: 8/10. handle: 20.500.11797/TFG6943

TUTORSHIP

(1)

1. [Feb. 2024 – June 2024] Valeria Pérez Gil, internship at Smart Technologies Research Group, agreement no. 243-2324. 150 hours.

JOURNALS REVIEWER**(2)**

1. [2024] Computers & Security, Elsevier: 2 articles.
2. [2023] Scientific Reports, Springer Nature: 1 article.

ORAL PRESENTATIONS IN CONFERENCES**(16)**

1. [2023] Paper presentation: “Towards Context-Aware Classrooms: Lessons Learnt from the ACTUA project”, in 11th Int. Conf. on Applications in Electronics Pervading Industry, Environment and Society (ApplePies), Genova, Italy, 28 September, 2023.
2. [2023] Paper presentation: “Multi-Agent Systems for Pervasive Electronics: A Case Study in School Classrooms”, in 11th Int. Conf. on Applications in Electronics Pervading Industry, Environment and Society (ApplePies), Genova, Italy, 28 September, 2023.
3. [2022] Paper presentation: “On the Deployment of Low-Cost Sensors to Enable Context-Aware Smart Classrooms”, in 10th Int. Conf. on Applications in Electronics Pervading Industry, Environment and Society (ApplePies), Genova, Italy, 27 September, 2022.
4. [2019] Paper presentation: “The Promising Future of Process Mining with the Internet of Events in Context-Aware Environments”, in 2nd Int. Conf. on Sensing and Instrumentation in IoT Era (ISSI), Lisbon, Portugal, 30 August, 2019.
5. [2019] Paper presentation: “e-PEMICU: an e-Health Platform to Support Early Mobilisation in Intensive Care Units”, in 10th Int. Conf. on Information, Intelligence, Systems and Applications (IISA), Patras, Greece, 16 July, 2019.
6. [2019] Paper presentation: “Skip Miner: Towards the Simplification of Spaghetti-like Business Process Models”, in 10th Int. Conf. on Information, Intelligence, Systems and Applications (IISA), Patras, Greece, 16 July, 2019.
7. [2019] Paper presentation: “Intra-Train Connectivity Analysis to Enable Context Aware Passenger Environments”, in 10th Int. Conf. on Information, Intelligence, Systems and Applications (IISA), Patras, Greece, 16 July, 2019.
8. [2019] Paper presentation: “Process Mining and Spaghetti Business Processes: An Uneasy Relationship”, in 5th URV Doctoral Workshop in Computer Science and Mathematics (DCSM), Tarragona, Spain, 22 May, 2019.
9. [2018] Paper presentation: “HGIS: A Healthcare-Oriented Approach to Geographic Information Systems”, in 6th Int. Conf. on Applications in Electronics Pervading Industry, Environment and Society (ApplePies), Pisa, Italy, 26 September, 2018.
10. [2018] Book chapter presentation: “Privacy-Oriented Analysis of Ubiquitous Computing Systems: A 5-D Approach”, in Final CRYPTACUS COST action Conf., Rennes, France, 20 September, 2018.
11. [2018] Paper presentation: “Process Mining in Healthcare: A Systematic Review”, in 9th Int. Conf. on Information, Intelligence, Systems and Applications (IISA), Zakynthos, Greece, 24 July, 2018.
12. [2017] Paper presentation: “Privacy-Preserving Process Mining: Towards the new European General Data Protection Regulation”, in 2nd Cryptanalysis of Ubiquitous Computing Systems (CRYPTACUS) Workshop, Nijmegen, The Netherlands, 17 November, 2017.
13. [2016] Paper presentation: “Two-dimensional Collaborative Filtering Approach to Wireless Channel Characterization”, in 2nd IEEE Int. Smart Cities Conf. (ISC2), Trento, Italy, 13 September, 2016.
14. [2016] Paper presentation: “On wandering detection methods in context-aware scenarios”, in 7th Int. Conf. on Information, Intelligence, Systems and Applications (IISA), Chalkidiki, Greece, 15 July, 2016.

15. [2015] Paper presentation: “A Study on the Detection of Wandering Patterns in Human Trajectories”, in 6th Int. Conf. on Information, Intelligence, Systems and Applications (IISA), Corfu, Greece, 7 July, 2015.
16. [2015] Paper presentation: “Monitoring People with MCI: Deployment in a Real Scenario for Low-Budget Smartphones”, in 6th Int. Conf. on Information, Intelligence, Systems and Applications (IISA), Corfu, Greece, 7 July, 2015.

CONFERENCE ORGANISATION

(10)

1. [2025] Member of the Technical Program Committee of the 17th Int. Conf. on Agents and Artificial Intelligence (ICAART), Porto, Portugal, 23-25 February 2025.
2. [2024] Member of the Technical Program Committee of the 9th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conf. (SEEDA-CECNSM), Egaleo, Greece, 20-22 September 2024.
3. [2023] Host organiser of the Management Committee and Working Groups of the Goodbrother COST action, Tarragona, Spain, 7-8 September, 2023.
4. [2023] Member of the Technical Program Committee of the 8th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conf. (SEEDA-CECNSM), Piraeus, Greece, 10-12 November 2023.
5. [2023] Member of the Technical Program Committee of the 11th Int. Conf. on Applications in Electronics Pervading Industry, Environment and Society (ApplePies), Genova, Italy, 28-29 September 2023.
6. [2022] Member of the Technical Program Committee of the Special Track on Smart Health and Wellbeing at the 8th IEEE Int. Smart Cities Conf. (ISC2), Paphos, Cyprus, 26-29 September 2022.
7. [2021] Member of the Technical Program Committee of the Special Track on Smart Health and Wellbeing at the 7th IEEE Int. Smart Cities Conf. (ISC2), 7-10 September 2021.
8. [2020] Member of the Technical Program Committee of the 5th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conf. (SEEDA-CECNSM), 25-27 September 2020.
9. [2019] Member of the Technical Program Committee of the Special Track on Knowledge Acquisition in Smart Contexts: Systems, Methods and Applications at the 4th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conf. (SEEDA-CECNSM), Piraeus. Greece, 20-22 September 2019.
10. [2016] Member of the Technical Program Committee of the Special Session on Smart Health and Well-being at the 7th Int. Conf. on Information, Intelligence, Systems and Applications (IISA), Chalkidiki, Greece, 13-15 July 2016.

ATTENDANCE TO OTHER CONFERENCES

(9)

1. [2019] Simp. Int. Avances y Perspectivas en Alergia Cutánea e Inmunología (SEAIC), Maspalomas, Spain, 23-26 October 2019.
2. [2019] APWG.eu Symposium on Cybersecurity Awareness, Bucharest, Romania, 26-27 June 2019.
3. [2019] Jornada de Cloenda de la Societat Catalana d’Al·lèrgia i Immunologia Clínica (SCAIC), Barcelona, Spain, 15 June 2019.
4. [2019] 8th Int. Work-Conf. on the Interplay between Natural and Artificial Computation (IWINAC), Almería, Spain, 3-7 June 2019.
5. [2018] Cryptanalysis of ubiquitous computing systems (CRYPACTUS) Awareness Meeting, Brussels, Belgium, 23 November 2018.

6. [2018] APWG.eu Symposium on Electronic Crime Research (eCrime), Krakow, Poland, 17-19 September 2018.
7. [2018] APWG.eu Symposium on Policy Impediments to CyberCrime Data Exchange, Barcelona, Spain, 30 May 2018.
8. [2017] APWG.eu eCrime Cyber-Security Symposium, Porto, Portugal, 24-26 October 2017.
9. [2017] 3rd Int. Forum on Research and Technologies for Society and Industry (RTSI), Modena, Italy, 11-13 September 2017.

ADDITIONAL EDUCATION COURSES

(16)

1. [2023] Course of RGPD compliance protocol for UOC's teaching staff (in Catalan: Curs de protocol de compliment de l'RGPD per a col·laboradors docents de la UOC), Universitat Oberta de Catalunya, December 2023, 4 hours.
2. [2022] Publish in open access (in Catalan: Publicar en accés obert), Course 06CR0051, Institut de Ciències de l'Educació de la Universitat Rovira i Virgili, 17 January - 17 June 2022, 4 hours.
3. [2022] How Mendeley helps you in systematic bibliography review (in Catalan: Com t'ajuda Mendeley en la revisió sistemàtica de la bibliografia), Course 06CR0035, Institut de Ciències de l'Educació de la Universitat Rovira i Virgili, 14 March 2022, 1.5 hours.
4. [2022] Researchers' identifiers and profiles: ORCID, Scopus Author ID, Publons (WoS) and Google Scholar (in Catalan: Identificadors i perfils dels investigadors: ORCID, Scopus Author ID, Publons (WoS) i Google Scholar), Course 06CR0042, Institut de Ciències de l'Educació de la Universitat Rovira i Virgili, 10 March 2022, 1.5 hours.
5. [2022] Bibliographic reference manager: Mendeley (Basic-Intermediate. Desktop version) (in Catalan: Gestor de referències bibliogràfiques: Mendeley (Bàsic-Intermedi. Versió Desktop)), Course 06CR0053, Institut de Ciències de l'Educació de la Universitat Rovira i Virgili, 4 March 2022, 1.5 hours.
6. [2021] Course of basic training for the affiliated teaching staff (in Catalan: Curs de formació bàsica per al consultor –professorat col·laborador–), Universitat Oberta de Catalunya, July 2021, 25 hours.
7. [2019] Research data management: Data management plan (in Catalan: Gestió de dades de recerca: Pla de gestió de dades), Course 18-19D31, Institut de Ciències de l'Educació de la Universitat Rovira i Virgili, 29 January 2019, 3 hours.
8. [2018] Business-related research skills (Catalan Industrial Doctorates, 2018 edition), Knowledge Innovation Market (KIM), 25 May - 22 June 2018, 30 hours.
9. [2018] The art of visualizing information and motivational strategies for groups and individuals (in Catalan: L'art de visualitzar la informació i les estratègies motivacionals destinades a grups i persones), Course 17-18D54, Institut de Ciències de l'Educació de la Universitat Rovira i Virgili, 3-10 May 2018, 8 hours.
10. [2017] Tools for the evaluation and visibility of scientific production (in Catalan: Eines per l'avaluació i visibilitat de la producció científica), Course 17-18D15, Institut de Ciències de l'Educació de la Universitat Rovira i Virgili, 19 December 2017, 3 hours.
11. [2017] Science and technology diffusion and dissemination (in Catalan: Difusió/Disseminació de la ciència i la tecnologia), Course 17-18D13, Institut de Ciències de l'Educació de la Universitat Rovira i Virgili, 12 December 2017, 4 hours.
12. [2017] Course of research results protection (in Catalan: Taller de protecció dels resultats de la recerca), Course 17-18D14, Institut de Ciències de l'Educació de la Universitat Rovira i Virgili, 28 November 2017, 4 hours.

13. [2017] Course of innovative projects entrepreneurship (in Catalan: Taller d'emprenedoria de projectes innovadors), Course 17-18D16, Institut de Ciències de l'Educació de la Universitat Rovira i Virgili, 21 November 2017, 4 hours.
14. [2017] IPR in H2020 projects (in Catalan: La IPR en els projectes H2020), Fundació URV, 19 July 2017, 4 hours.
15. [2015] Strategies and infringement of industrial and intellectual property (in Catalan: Estratègies i infracció de la propietat industrial i intel·lectual), Fundació URV and Clark, Modet & C^o, 16 April 2015, 3 hours.
16. [2014] Connect-Health 2014 Day, Institut d'Investigació Sanitària Pere Virgili, 15 October 2014, 6 hours.