

Biography



Miguel L. Pardal was born in Lisbon, Portugal in 1977. He graduated (2000), mastered (2006) and doctored (2014) in Computer Science and Engineering from Instituto Superior Técnico (IST), Universidade de Lisboa, Portugal.

Miguel L. Pardal is currently an Assistant Professor at IST and a researcher at INESC-ID in the *Distributed, Parallel, and Secure Systems* Group (DPSS). He is currently leading the project “Agenda BlockChain PT. Descentralizar Portugal” (2023-2025). He previously led the SureThing project (FCT 2018-2021) and led a Work Package in the Safe Cloud EU Project (H2020 2015-2018). He was a Guest Scientist at TU Munich. During his PhD, he was a visiting student at the Auto-ID Labs at MIT. He currently has more than 50 publications and his main research interest is Cybersecurity applied to the digital frontiers of the Internet of Things, Cloud Computing, and Blockchain.

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Professional experience

<i>From</i>	<i>To</i>	<i>Position</i>	<i>Organization</i>
2015-07		Researcher	INESC-ID
2014-06		Assistant Professor, Researcher	Department of Computer Science and Engineering, Instituto Superior Técnico, Universidade de Lisboa
2006-09	2014-06	Lecturer, Researcher	Department of Computer Science and Engineering, Instituto Superior Técnico, Universidade Técnica de Lisboa (Lisbon)
2002-10	2006-09	Teaching Assistant	Department of Computer Science and Engineering, Instituto Superior Técnico, Universidade Técnica de Lisboa (Lisbon)
2000-09	2002-09	Consultant	Unisys Portugal
2000-03	2000-08	Programmer	Link Consulting

Academic education

<i>Date</i>	<i>Degree</i>	<i>Scientific Field</i>	<i>University</i>
2014-06	Doctor of Philosophy (Ph.D.)	Information Systems and Computer Engineering	Instituto Superior Técnico, Universidade de Lisboa
2006-09	Master of Science (M.Sc)	Computer Science and Engineering	Instituto Superior Técnico, Universidade Técnica de Lisboa
2000-07	Licenciatura (5-year full-time degree)	Computer Science and Engineering	Instituto Superior Técnico, Universidade Técnica de Lisboa

Honors

<i>Date</i>	<i>Honor</i>	<i>Organization</i>
2017	Co-advisor of André de Matos Joaquim, winner of the Merit Award for Best Information Security Master Thesis	AP2SI (Associação Portuguesa para a Promoção da Segurança da Informação)
2016	Excellent Teacher for Computer and Network Security course	Instituto Superior Técnico, Universidade de Lisboa
2013, 2014	Excellent Teacher for Distributed Systems course	Instituto Superior Técnico, Universidade de Lisboa
2008	Doctoral Program fellowship (SFRH/BD/45289/2008)	Portuguese Foundation for Science and Technology (FCT)
2005	Best computer science admission work 2003-2004, “Web technologies integration in banking and insurance applications”	Ordem dos Engenheiros (Portuguese Engineers Association)

Academic Curriculum

Publications

2023-09

Ricardo Moura, Ricardo Lopes, David R. Matos, Miguel L. Pardal, Miguel Correia
[MultiTLS: using multiple and diverse ciphers for stronger secure channels](#)
Computers & Security (COSE), Volume 132, pages 103342

2023-07

David R. Matos, Miguel L. Pardal, António Rito Silva, Miguel Correia
[microVerum: Intrusion Recovery for Microservice Applications](#)
IEEE Access

2023-06

Diogo Vaz, David R. Matos, Miguel L. Pardal, Miguel Correia
[Automatic Generation of Distributed Algorithms with Generative AI](#)
53rd IEEE/IFIP International Conference on Dependable Systems and Networks (DSN) -- Disrupt track (Disruptive Ideas and New Interdisciplinary Results)

2023-06

Francesco Pollicino, Samih Eisa, Pedro Rosa, Miguel L. Pardal, Mirco Marchetti
[Decentralized position detection for moving vehicles](#)
97th IEEE Vehicular Technology Conference (VTC)

2023-06

Pedro Maximino, Rui S. Cruz, Miguel L. Pardal
[Smart Healthcare Monitoring System For Healthy Driving in Public Transportation](#)
18th Iberian Conference on Information Systems and Technologies (CISTI)

2023-06

Diogo Vaz, David R. Matos, Miguel L. Pardal, Miguel Correia
[Synthesis of Fault-Tolerant Reliable Broadcast Algorithms with Reinforcement Learning](#)
IEEE Access, Volume 11, Pages 62394-62408

2022-12

Diogo Nascimento, Miguel Ferreira, Miguel L. Pardal
[Does Big Data Require Complex Systems? A Performance Comparison Between Spark and Unicage Shell Scripts](#)
arXiv pre-print

2022-12

Miguel Ferreira, André Neves, Ricardo Gorjão, Carlos Cruz, Miguel L. Pardal
[Smart meter data processing: a showcase for simple and efficient textual processing](#)
arXiv pre-print

2022-12

Rafael Figueiredo, Samih Eisa, Miguel L. Pardal
[SureRepute: Reputation System for Crowdsourced Location Witnesses](#)
21st IEEE International Symposium on Network Computing and Applications (NCA)

2022-12

Lucas H. Vicente, Samih Eisa, Miguel L. Pardal
[LoCaaS: Location-Certification-as-a-Service](#)
21st IEEE International Symposium on Network Computing and Applications (NCA)

2022-12

Ricardo Grade, Samih Eisa, Miguel L. Pardal

[Bluetooth Peer-to-Peer Location Certification with a Gamified Mobile Application](#)

21st IEEE International Symposium on Network Computing and Applications (NCA)

2022-09

Filipe Apolinário, João Guiomar, Éric Hervé, Sven Hrastnik, Nelson Escravana, Miguel L. Pardal, Miguel Correia

[ComSEC: Secure communications for baggage handling systems](#)

International Workshop on Cyber-Physical Security for Critical Infrastructures Protection (CPS4CIP)

2022-08

Rui Claro, Samih Eisa, Miguel L. Pardal

[Lisbon Hotspots: Wi-Fi access point dataset for time-bound location proofs](#)

arXiv pre-print

2022-07

Diogo Vaz, David R. Matos, Miguel L. Pardal, Miguel Correia

[Learning to generate Reliable Broadcast Algorithms](#)

arXiv pre-print

2022-07

João Antunes, Miguel L. Pardal, Luísa Coheur

[A Study on the Best Way to Compress Natural Language Processing Models](#)

IEEE International Conference on Fuzzy Systems (FUZZ-IEEE)

2022-05

Diogo Vaz, David R. Matos, Miguel L. Pardal, Miguel Correia

[MIREs: Intrusion Recovery for Applications based on Backend-as-a-Service](#)

IEEE Transactions on Cloud Computing

2022-04

João Tiago, Samih Eisa, Miguel L. Pardal

[SureSpace: Orchestrating Beacons and Witnesses to Certify Device Location](#)

ACM/SIGAPP 37th Symposium On Applied Computing (SAC)

2022-04

Filipe Apolinário, Nelson Escravana, Éric Hervé, Miguel L. Pardal, Miguel Correia

[FingerCI: Generating Specifications for Critical Infrastructures](#)

ACM/SIGAPP 37th Symposium On Applied Computing (SAC)

2021-12

David Matos, Miguel L. Pardal, Miguel Correia

[Sanare: Pluggable Intrusion Recovery for Web Applications](#)

IEEE Transactions on Dependable and Secure Computing

2021-11

Miguel Francisco, Samih Eisa, Miguel L. Pardal

[Secure protocol buffers for Bluetooth Low-Energy communication with wearable devices](#)

20th IEEE International Symposium on Network Computing and Applications (NCA)

2021-11

Pedro M. Rosa, Miguel L. Pardal, Gabriel Pestana

[The ROAD to resilient location for the Internet of Vehicles](#) poster

13th IEEE Vehicular Networking Conference (VNC)

2021-09

Miguel Ferreira, André Neves, Rodrigo Gorjão, Carlos Cruz, Miguel L. Pardal.
[Smart meter data processing: a showcase for simple and efficient textual processing](#)
Workshop on High-Performance and Reliable Big Data (HPBD)

2021-09

José Ferrão, Samih Eisa, Miguel L. Pardal
[Offensive security assessment of a REST API for a location proof system](#)
INForum

2021-09

Miguel Francisco, Samih Eisa, Miguel L. Pardal
[POSE: Protocol Buffer-based Security Enhancement for Location Proof System on Constrained Devices](#) comunicação
INForum

2021-09

Pedro Carvalho, Leonardo Sampaio Rocha, Samih Eisa, Miguel L. Pardal
[Location Certificate Transparency for third-party-verifiable location proofs](#) comunicação
INForum

2021-09

Pedro Teixeira, Samih Eisa, Miguel L. Pardal
[Denial-of-service test-bed for distributed location proof system](#) comunicação
INForum

2020-12

Diogo Vaz, David R. Matos, Miguel L. Pardal, and Miguel Correia
[MIREs: Recovering Mobile Applications based on Backend-as-a-Service from Cyber Attacks](#)
17th EAI International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous)

2020-11

Filipe Martins, David R. Matos, Miguel L. Pardal, Miguel Correia
[Recoverable Token: Recovering from Intrusions against Digital Assets in Ethereum](#)
19th IEEE International Symposium on Network Computing and Applications (NCA)

2020-10

Gabriel A. Maia, Rui L. Claro, Miguel L. Pardal
[CROSS City: Wi-Fi Location Proofs for Smart Tourism](#)
19th International Conference on Ad Hoc Networks and Wireless (AdHoc-Now)

2020-10

Henrique F. Santos, Rui L. Claro, Leonardo S. Rocha, Miguel L. Pardal
[STOP: a location spoofing resistant vehicle inspection system](#)
19th International Conference on Ad Hoc Networks and Wireless (AdHoc-Now)

2020-09

Ricardo Moura, David R. Matos, Miguel L. Pardal, Miguel Correia
[MultiTLS: Secure communication channels with cipher suite diversity](#)
35th International Conference on ICT Systems Security and Privacy Protection (IFIP SEC)
(also available in the [Cryptography ePrint Archive, as Report 2020/1180](#))

2020-09

Miguel Amaral, Miguel L. Pardal, Hugues Mercier, Miguel Matos
[FaultSee: Reproducible Fault Injection in Distributed Systems](#)
16th European Dependable Computing Conference (EDCC)

2020-03

Ricardo Miranda, Miguel L. Pardal, António Grilo
[Sensmart: Sensor Data Market for the Internet of Things](#)
ACM/SIGAPP 35th Symposium On Applied Computing (SAC)

2020-01

José Brás, Miguel L. Pardal
[BibTrek: A Graph Visualization Tool for Cybersecurity Research Publications](#)
Technical Report, [GitHub](#)

2020-01

Tolentino Martins, Miguel L. Pardal, José Borges
[Gestão de Vulnerabilidade e Risco no Suporte à Decisão](#)
Proelium -- Revista Científica da Academia Militar

2019-09

Gabriel A. Maia, Miguel L. Pardal
[CROSS: loCation pROof techniques for consumer mobile applications](#)
INForum

2019-09

Henrique F. Santos, Miguel L. Pardal
[Operation STOP: itinerary verification for smart vehicle inspections](#)
INForum

2019-09

Sheng Wang, Rui Claro, Miguel L. Pardal
[SPYKE: Security ProxY with Knowledge-based intrusion prEvention](#)
INForum

2019-09

Miguel Amaral, Miguel L. Pardal, Miguel Matos
[FaultSee: Avaliação Reproduzível de Sistemas Distribuídos Sujeitos a Falhas](#)
INForum

2019-09

Pedro E. Carmo, Miguel L. Pardal
[IoT Neighborhood Watch: device monitoring for anomaly detection](#) comunicação
INForum

2018-12

David R. Matos, Miguel L. Pardal, Georg Carle, Miguel Correia
[RockFS: Cloud-backed File System Resilience to Client-Side Attacks](#)
ACM/IFIP/USENIX 19th International Middleware Conference

2018-11

Diogo Calado, Miguel L. Pardal
[Tamper-proof incentive scheme for mobile crowdsensing systems](#)
17th IEEE International Symposium on Network Computing and Applications (NCA)

2018-11

João Ferreira, Miguel L. Pardal

[Witness-based location proofs for mobile devices](#) (short)

17th IEEE International Symposium on Network Computing and Applications (NCA)

2018-09

Rui Claro, José Portêlo, Miguel L. Pardal, Raquel Pinho

[Big Data Privacy by Design Computation Platform](#)

4th International Conference on Machine Learning, Optimization, and Data Science (LOD)

2018-07

Filipe Apolinário, Miguel L. Pardal, Miguel Correia

[S-Audit: Efficient Data Integrity Verification for Cloud Storage](#)

17th IEEE International Conference On Trust, Security And Privacy In Computing And Communications (IEEE TrustCom-18)

2018-05

Marcus Gomes, Miguel L. Pardal

[Cloud vs Fog: assessment of alternative deployments for a latency-sensitive IoT application](#)

9th International Conference on Ambient Systems, Networks and Technologies (ANT)

2018-05

João M. P. Moreira, Helena Galhardas, Miguel L. Pardal

[LeanBench: comparing software stacks for batch and query processing of IoT data](#)

9th International Conference on Ambient Systems, Networks and Technologies (ANT)

2018-04

David R. Matos, Miguel L. Pardal, Pedro Adão, António Rito Silva, Miguel Correia

[Securing Electronic Health Records in the Cloud](#)

EuroSys, Workshop on Privacy by Design in Distributed Systems

2018-04

José Camacho, Alberto Cunha, Miguel L. Pardal

[IoT Middleware for Precision Agriculture: Workforce Monitoring in Olive Fields](#)

Cyber-Physical Systems Week, Smart Farming Workshop

2018-03

Sergey Podanev, Miguel L. Pardal

[WeSee: dynamic visualization of Web Service use](#)

Proceedings of the Seminars Future Internet (FI) and Innovative Internet Technologies and Mobile Communication (IITM), Winter Semester 2017/2018, Chair of Network Architectures and Services, Department of Computer Science, Technische Universität München

2018-02

Miguel L. Pardal, Miguel Correia, André Joaquim, Karan Balu, Diogo Raposo, Isabel Costa,

Ricardo Moura, Sree Harsha Totakura, Heiko Niedermayer

[Deliverable 1.3: Final version of the private communication middleware components](#) (technical report)

[SafeCloud EU H2020 Project - DS-2014-1 653884](#)

2017-12

David R. Matos, Miguel L. Pardal, Miguel Correia

[Rectify: Black-Box Intrusion Recovery in PaaS Clouds](#)

ACM/IFIP/USENIX 18th International Middleware Conference

2017-12

André Joaquim, Miguel L. Pardal, Miguel Correia

[Vulnerability-Tolerant Transport Layer Security](#)

21st International Conference on Principles of Distributed Systems (OPODIS)

2017-02

Miguel L. Pardal, Miguel Correia, André Joaquim, Karan Balu, Diogo Raposo, Luís Rodrigues, David R. Matos, Sree Harsha Totakura, Heiko Niedermayer

[Deliverable 1.2: First version of the private communication middleware components](#) (technical report)

[SafeCloud EU H2020 Project - DS-2014-1 653884](#)

2016-10

Diogo Raposo, Miguel L. Pardal, Luis Rodrigues, Miguel Correia

[MACHETE: Multi-path Communication for Cloud Security](#)

15th IEEE International Symposium on Network Computing and Applications (NCA)

2016-10

Karan H. Balu, Miguel L. Pardal, Miguel Correia

[DARSHANA: Detecting Route Hijacking For Communication Confidentiality](#)

15th IEEE International Symposium on Network Computing and Applications (NCA)

2016-10

André M. Joaquim, Miguel L. Pardal, Miguel Correia

[vtTLS: A Vulnerability-Tolerant Communication Protocol](#) (short)

15th IEEE International Symposium on Network Computing and Applications (NCA)

2016-09

Tomás Pinho, Miguel L. Pardal

[UpdaThing: um sistema de atualizações seguro para a Internet das Coisas](#)

INForum

2016-09

Samuel M. Coelho, Miguel L. Pardal

[Smart Places: A framework to develop proximity-based mobile applications](#)

INForum

2016-09

Tiago Diogo, Miguel L. Pardal

[Arranque Seguro de Redes 6LoWPAN para prevenir Ataques Vampiro na Internet das Coisas](#) comunicação

INForum

2016-09

José Camacho, Miguel L. Pardal, Alberto Cunha

[Agricultura de Precisão com Sensores e Tecnologias da Internet das Coisas](#) comunicação

INForum

2016-02

Miguel L. Pardal, Miguel Correia, Sree Harsha Totakura, Georg Carle, Karan Balu, André Joaquim, Diogo Raposo

[Deliverable 1.1: Private communication middleware architecture](#) (technical report)

[SafeCloud EU H2020 Project - DS-2014-1 653884](#)

2015-06

Miguel L. Pardal, José Alves Marques

[TrakChain protects Track and Trace data in the Internet of \(many\) Things \(web\)](#)

Security and Privacy in Internet of Things (SPIoT), CHIST-ERA

2015-04

Miguel L. Pardal, José Alves Marques

[TrakChain estimates costs for Track and Trace in the Internet of \(many\) Things \(web\)](#)

ERCIM News, 101

2014-07

Miguel L. Pardal

[Scalable and secure RFID data discovery](#)

Thesis to obtain the PhD Degree in Information Systems and Computer Engineering, Instituto Superior Técnico, Universidade de Lisboa

2014

Miguel L. Pardal, Mark Harrison, Sanjay Sarma, José Alves Marques

[Access Control Policies for Traceability Information Systems](#)

International Journal of Computer Information Systems and Industrial Management Applications (IJCISIM), Volume 6, Pages 560-570, ISSN 2150-7988

2013

Miguel L. Pardal, Joana P. Pardal, José Alves Marques

[Performance Assessment of Web Services in the STEP Framework](#)

Communications in Computer and Information Science (CCIS), Volume 367, Pages 200-214

2013-04

Miguel L. Pardal, Mark Harrison, Sanjay Sarma, José Alves Marques

[Expressive RFID data access policies for the Pharmaceuticals supply chain](#)

IEEE International Conf. on RFID (IEEE RFID)

2013-04

Nuno Correia, Miguel L. Pardal, Mário Romano, José Alves Marques

[Reduce RFID Implementation Costs With Middleware Improvements](#) poster

IEEE International Conf. on RFID (IEEE RFID)

2012-11

Miguel L. Pardal, Mark Harrison, Sanjay Sarma, José Alves Marques

[Performance Assessment of XACML Authorizations for Supply Chain Traceability Web Services](#)

8th International Conf. on Next Generation Web Services Practices (NWeSP)

2012-11

Miguel L. Pardal, Mark Harrison, Sanjay Sarma, José Alves Marques

[Enforcing RFID Data Visibility Restrictions Using XACML Security Policies](#)

IEEE International Conf. on RFID Technology and Applications (IEEE RFID TA)

2012-09

Nuno Correia, Miguel L. Pardal, Mário Romano, José Alves Marques

[RFID and Arduino: Managing RFID Events on a Real World Prototype](#)

INForum

2012-04

Miguel L. Pardal, Mark Harrison, José Alves Marques

[Assessment of Visibility Restriction Mechanisms for RFID Data Discovery Services](#)

IEEE International Conf. on RFID (IEEE RFID)

2012-04

Miguel L. Pardal, Joana Paulo Pardal, José Alves Marques

[Improving Web Services performance, one STEP at a time](#)

2nd International Conf. on Cloud Computing and Services Science (CLOSER)

2011-09

Miguel L. Pardal, José Alves Marques

[Cost Model for RFID-based Traceability Information Systems](#)

IEEE International Conf. on RFID Technology and Applications (IEEE RFID TA)

2011-04

Miguel L. Pardal, José Alves Marques

[Building an Assessment Framework for RFID Data Discovery Service Architectures](#) poster

IEEE International Conf. on RFID (IEEE RFID)

2011-03

Miguel L. Pardal,

[Traceability Cost Model](#)

Technical Report

2010-11

Miguel L. Pardal,

[Performance assessment of the STEP Framework](#)

Technical Report

2010-10

João Carlos Caetano Leitão, Miguel L. Pardal

[Smart Web Services: systems' integration using policy driven automatic configuration](#)

Conference on Enterprise Information Systems (CENTERIS)

2010-06

Carlos Perdigão, Miguel L. Pardal

[EPC Virtual Lab: Experiments using an RFID location simulator](#)

4th International Workshop on RFID Technology - Concepts, Applications, Challenges (IWRT)

2010-06

Miguel L. Pardal, José Alves Marques

[Towards the Internet of Things: An Introduction to RFID Technology](#)

4th International Workshop on RFID Technology - Concepts, Applications, Challenges (IWRT)

2009-07

Miguel Pardal

[Scalable and secure RFID data discovery](#)

PhD Thesis Proposal, Instituto Superior Técnico

2008-10

Miguel L. Pardal

[GS1 Identifier management architecture](#)

Technical Report

2008-06

Miguel Pardal, Sérgio Fernandes, Jorge Martins, Joana Paulo Pardal

[Customizing Web Services with Extensions in the STEP framework](#)

International Journal of Web Services Practices (IJWSP), Volume 3, Issue 1

2008-01

Miguel Pardal

[Computer science research for the Internet of Things](#)

Technical Report

2007-10

Miguel Pardal

[Core mechanisms for Web Services extensions](#)

3rd International Conference on Next Generation Web Services Practices (NWeSP)

2007-10

Miguel Pardal

[WS-Map: A web-based survey of Web Services standards](#) poster

IADIS International Conference WWW/Internet

2006-12

Miguel Pardal

[A survey and case-study evaluation of Web Services security technology](#)

Technical Report

2006-10

Miguel Pardal, Alberto Cunha

[Tecnologia de segurança para Web Services](#)

Segurança Informática nas Organizações (SINO)

2006-09

Miguel Pardal

[Segurança de aplicações empresariais em arquitecturas de serviços](#)

Tese de Mestrado em Engenharia Informática e de Computadores, Instituto Superior Técnico, Universidade Técnica de Lisboa

2006-02

Miguel Pardal

['Em construção': uma análise ao estado actual da plataforma de Serviços Web para negócio electrónico](#)

XML: Aplicações e Tecnologias Associadas (XATA)

2005-01

Miguel Pardal

[Resumo do melhor estágio em Engenharia Informática 2004: Integração de tecnologias Web em sistemas de informação de Banca e Seguros](#)

Ingenium, II Série, Número 85, Janeiro/Fevereiro 2005

2004-07

Miguel Pardal, Alberto Cunha

[Building multi-services in personal mobile devices based on partially trusted domains](#)

Proc. of International IADIS Conference e-Society

2004-05

Marta Guerra, Miguel Pardal, Miguel Mira da Silva

[An Integration Methodology based on the Enterprise Architecture](#)

Proc. of the Conference of the UK Academy for Information Systems (UKAIS)

Projects

- 2023..2026 - BLOCKCHAIN.PT - *Agenda Descentralizar Portugal com Blockchain*, project nr. 51, financed by European Funds, namely the Recovery and Resilience Plan - Component 5: *Agendas Mobilizadoras para a Inovação Empresarial*, included in the NextGenerationEU funding program.
- 2023..2024 - AmICA - Ambient Intelligence with Artificial Cognition - [IST Pedagogical Innovation Project](#)
- 2018..2022 - [SureThing](#) - Device Location Certification for the Internet of Things - Fundação para a Ciência e Tecnologia (PTDC/CCI-COM/31440/2017)
- 2015..2018 - [SafeCloud](#) - Secure and Resilient Cloud Architecture - Horizon 2020 Project Reference 653884

Management Positions

- 2022..2024 - *Executive Commission Member for the Finance Area* of the [Department of Computer Science and Engineering \(DEI\)](#) of IST
- 2020..2022 - *Executive Coordinator* of the [Distributed, Parallel and Secure Systems \(DPSS\)](#) scientific area of INESC-ID

Participation in the Community

Conference Organization Committees

- *Program Co-Chair*. NCA 2022. [21st IEEE International Symposium on Network Computing and Applications](#). Online Conference. December 14-16, 2022.
- *Publication Chair*. EDCC 2020. [16th European Dependable Computing Conference](#). Munich, Germany. September 7-10, 2020.
- *Meeting Organizer*. IST-NAV PriVeil: Privacy-preserving Threat Information Sharing. Teleconference. July 3rd, 2020.
- *Program Chair*. [SureThing Workshop: Advances in Internet of Things and Location](#). Hotel Roma, Lisboa, Portugal. January 10th, 2020.
- *Sponsorship Chair*. EDBT/ICDT 2019. [22nd International Conference on Extending Database Technology / 22nd International Conference on Database Theory](#). Lisbon, Portugal. March 26-29, 2019. Co-chair: João Coelho Garcia.
- *Track Chair*. Segurança de Sistemas de Computadores e Comunicações. [INFórum 2015. Simpósio de Informática](#). Co-chair: Miguel Correia.

- *Workshop & Demo Chair.* IoT 2014. [4th International Conference on the Internet of Things](#). Cambridge MA, USA. October 6-8, 2014. Co-chairs: Daniel Engels, Prasanna Kalansuriya.
-

Invited Talks

- May 2022. [Cibersegurança: da Engenharia à Política](#). Colégio de Engenharia Informática da Ordem dos Engenheiros de Portugal. Teleconferência.
 - January 2020. SureThing: device location certification for the Internet of Things. Technical University of Munich (TUM), Germany.
 - December 2019. SureThing: device location certification for the Internet of Things. Universidade de Aveiro, Portugal.
 - December 2018. [SureThing: device location certification for the Internet of Things](#). InfoBlender seminar. HASLab, INESC TEC. Universidade do Minho, Braga, Portugal.
 - October 2018. Security and Privacy for IoT and Cloud. Department of Computer Science and Engineering seminar. Instituto Superior Técnico, Universidade de Lisboa.
 - April 2018. Security and Privacy for IoT and Cloud. Distributed Systems Group seminar.
 - May 2017. Rastreabilidade na Internet das (muitas) Coisas. Jornadas da Ciência da Informação. Universidade do Porto.
 - September 2016. Security and Privacy for IoT and Cloud. Joint INESC-ID and Altran seminar.
 - September 2016. Security and Privacy for IoT and Cloud. Chair of Network Architectures and Services staff meeting. TU Munich, Germany.
-

Program Committees

- IFIP SEC 2024. [39th International Conference on ICT Systems Security and Privacy Protection](#). Edinburgh, Scotland, UK.
- ARES 2023. [18th International Conference on Availability, Reliability and Security](#). Benevento, Italy.
- SECRYPT 2023. [20th International Conference on Security and Cryptography](#). Rome, Italy.
- IFIP SEC 2023. [38th International Conference on ICT Systems Security and Privacy Protection](#). Poznan, Poland.
- Manage-IoT 2023. [3rd IEEE/IFIP International Workshop on Internet of Things Management](#). Miami, FL, USA.
- DPSC 2023. [Digital Privacy and Security Conference](#). Porto, Portugal.
- CSR 2023. [International Conference on Cybersecurity and Resilience](#). Venice, Italy.
- NCA 2022. [21st IEEE International Symposium on Network Computing and Applications](#). Online Conference.
- IoT 2022. [International Conference on the Internet of Things](#). TU Delft, Netherlands.
- INFórum 2022. Simpósio de Informática. Politécnico da Guarda, Portugal.
- ENSD 2022. [Encontro Nacional de Sistemas Distribuídos](#). Évora, Portugal.
- IFIP SEC 2022. [37th International Conference on ICT Systems Security and Privacy Protection](#). Copenhagen, Denmark.
- IEEE RFID 2022. [IEEE International Conference on RFID](#). Las Vegas, NV, USA.
- HPDB 2021. [Workshop on High-Performance and Reliable Big Data](#) (co-located with SRDS). On-line, virtual event.
- IoT-SecFor 2021. International Workshop on Security and Forensics of IoT (held in conjunction with ARES). On-line, virtual event.

- NCA 2021. [20th IEEE International Symposium on Network Computing and Applications](#). Online Conference.
- CSR 2021. [IEEE International Conference on Cyber Security and Resilience](#). On-line, virtual event.
- INFórum 2021. Simpósio de Informática. ISEL, Portugal.
- IEEE RFID 2021. [15th IEEE International Conference on RFID](#). Atlanta, GA, USA.
- IFIP SEC 2021. [36th International Conference on ICT Systems Security and Privacy Protection](#). Oslo, Norway.
- NCA 2020. [19th IEEE International Symposium on Network Computing and Applications](#). Online Conference.
- IFIP SEC 2020. [35th International Conference on ICT Systems Security and Privacy Protection](#). Maribor, Slovenia.
- IEEE RFID 2020. [14th IEEE International Conference on RFID](#). Online.
- IoT-SecFor 2019. International Workshop on Security and Forensics of IoT (held in conjunction with ARES). University of Kent, Canterbury, UK.
- NCA 2019. [18th IEEE International Symposium on Network Computing and Applications](#). Cambridge, MA, USA.
- INFórum 2019. Simpósio de Informática. Universidade do Minho, Portugal.
- IFIP SEC 2019. [34th International Conference on ICT Systems Security and Privacy Protection](#). Lisbon, Portugal.
- IEEE RFID 2019. [13th IEEE International Conference on RFID](#). Phoenix, AZ, USA.
- DOMINOS 2019. IFIP/IEEE International Symposium on Integrated Network Management (IM), Decentralized Orchestration and Management of Distributed Heterogeneous Things Workshop. Washington, DC, USA.
- NCA 2018. 17th IEEE International Symposium on Network Computing and Applications. Cambridge, MA, USA.
- IEEE RFID 2018. [12th IEEE International Conference on RFID](#). Orlando, FL, USA.
- DOMINOS 2018. IEEE/IFIP Network Operations and Management Symposium (NOMS), Decentralized Orchestration and Management of Distributed Heterogeneous Things Workshop. Taipei, Taiwan.
- IoT-SecFor 2018. International Workshop on Security and Forensics of IoT (held in conjunction with ARES). University of Hamburg, Germany.
- INFórum 2018. Simpósio de Informática. Universidade de Coimbra, Portugal.
- NCA 2017. IEEE International Symposium on Network Computing and Applications. Cambridge, MA, USA.
- INFórum 2017. Simpósio de Informática. Universidade de Aveiro, Portugal.
- ICITST 2016. International Conference for Internet Technology and Secured Transactions. Barcelona, Spain.
- INFórum 2016. Simpósio de Informática. Instituto Superior Técnico, Universidade de Lisboa, Portugal.
- IEEE RFID-TA 2015. IEEE International Conference on RFID Technology and Applications. Tokyo, Japan.
- INFórum 2015. Simpósio de Informática. Universidade da Beira Interior, Covilhã, Portugal.
- IEEE RFID 2013. IEEE International Conference on RFID. Orlando, FL, USA.
- ICITST 2011. International Conference for Internet Technology and Secured Transactions. Abu Dhabi, UAE.

Peer Reviews

Journals

- 2023 [Computers & Security \(COSE\)](#) (Print ISSN: 0167-4048, Online ISSN: 1872-6208)
- 2022 [International Journal of Digital Earth](#) (Print ISSN: 1753-8947, Online ISSN: 1753-8955)

- 2021 [Transactions on Emerging Telecommunications Technologies](#) (Online ISSN 2161-3915)
- 2021 [IEEE Access](#) (E-ISSN 2169-3536)
- 2020 [IEEE Access](#) (E-ISSN 2169-3536)
- 2019 [IEEE Journal of Biomedical and Health Informatics](#) (ISSN 2168-2194, E-ISSN 2168-2208)
- 2018 [i-ETC: ISEL Academic Journal of Electronics Telecommunications and Computers](#) (ISSN 2182-4010)
- 2018 [IEEE Internet of Things Journal](#) (ISSN 2327-4662)
- 2018 [IET Software](#) (Online ISSN 1751-8814, Print ISSN 1751-8806)
- 2014 [IEEE Transactions on Network and Service Management](#) (ISSN 1932-4537)
- 2010 [Journal of Systems and Software \(Elsevier\)](#) (ISSN 0164-1212)

Conferences

- WF-IoT 2023. [9th World Forum on Internet of Things](#). Aveiro, Portugal.
- MWSCAS 2023. [66th IEEE International Midwest Symposium on Circuits and Systems](#). Phoenix, AZ, USA.
- IEEE RFID 2023. [1th International Conference on RFID](#). Seattle, WA, USA.
- ECIS 2023. [31st European Conference on Information Systems](#). Kristiansand, Norway.
- IoT 2022. [12th International Conference on the Internet of Things](#). TU Delft, Netherlands.
- INFórum 2022. [13º Simpósio de Informática](#). Politécnico da Guarda, Portugal.
- SBAC-PAD 2021. [IEEE 32nd International Symposium on Computer Architecture and High Performance Computing](#). Porto, Portugal.
- INFórum 2021. [12º Simpósio de Informática](#). Instituto Superior de Engenharia de Lisboa, Portugal.
- Euro-Par 2021. [27th International European Conference on Parallel and Distributed Computing](#). Lisbon, Portugal.
- NCA 2020. [19th IEEE International Symposium on Network Computing and Applications](#). Online Conference.
- IEEE-iSES 2020. [6th IEEE International Symposium on Smart Electronic Systems](#). Chennai, India.
- IEEE RFID 2020. [14th IEEE International Conference on Radio Frequency Identification](#). Online Conference.
- IFIP SEC 2020. [35th International Conference on ICT Systems Security and Privacy Protection](#). Maribor, Slovenia.
- NCA 2019. [18th IEEE International Symposium on Network Computing and Applications](#). Cambridge, MA, USA.
- IFIP SEC 2019. [34th International Conference on ICT Systems Security and Privacy Protection](#). Lisbon, Portugal.
- INFórum 2019. [11º Simpósio de Informática](#). Universidade do Minho, Guimarães, Portugal.
- IEEE RFID 2019. [13th IEEE International Conference on Radio Frequency Identification](#). Phoenix, AZ, USA.
- NCA 2018. [17th IEEE International Symposium on Network Computing and Applications](#). Cambridge, MA, USA.
- INSCI 2018. [4th International Conference on Internet Science](#). St. Petersburg, Russia.
- INFórum 2018. [10º Simpósio de Informática](#). Universidade de Coimbra, Portugal.
- IEEE RFID 2018. [12th IEEE International Conference on Radio Frequency Identification](#). Orlando, FL, USA.
- NCA 2017. [16th IEEE International Symposium on Network Computing and Applications](#). Cambridge, MA, USA.
- SECRIPT 2017. [International Conference on Security and Cryptography](#). Madrid, Spain.
- IEEE RFID 2017. [11th IEEE International Conference on Radio Frequency Identification](#). Phoenix, AZ, USA.
- EDBT 2017. [International Conference on Extending Database Technology](#). Venice, Italy.

- SECRYPT 2016. International Conference on Security and Cryptography. Lisbon, Portugal.
- SpaCCS 2016. International Conference on Security, Privacy and Anonymity in Computation, Communication and Storage. Zhangjiajie, China.
- INFórum 2016. 8º Simpósio de Informática. Instituto Superior Técnico, Universidade de Lisboa, Portugal.
- IEEE RFID 2016. 10th IEEE International Conference on Radio Frequency Identification. Orlando, FL, USA.
- INFórum 2015. 7º Simpósio de Informática. Universidade da Beira Interior, Portugal.
- IEEE RFID 2015. 9th IEEE International Conference on Radio Frequency Identification. San Diego, CA, USA.
- IEEE RFID-TA 2015. 6th IEEE International Conference on RFID Technology and Applications. Tokyo, Japan.
- IoT 2014. 4th International Conference on the Internet of Things. Cambridge, MA, USA.
- IEEE RFID 2014. 8th IEEE International Conference on Radio Frequency Identification. Orlando, FL, USA.
- ISWTA 2013. IEEE Symposium on Wireless Technology & Applications. Kuching, Malaysia.
- IEEE RFId 2013. 7th IEEE International Conference on Radio Frequency Identification. Orlando, FL, USA.
- ICITST 2011. 6th International Conference on Internet Technology and Secured Transactions. UAE.
- UbiComp 2011. 13th International Conference on Ubiquitous Computing. Beijing, China.
- IEEE RFID 2009. 3rd IEEE International Conference on Radio-Frequency Identification. Orlando, FL, USA.

Workshops

- NOMS 2023. IEEE/IFIP Network Operations and Management Symposium. Miami, FL, USA.
- ENSD 2022. [Encontro Nacional de Sistemas Distribuídos](#). Évora, Portugal.
- NOMS 2022. IEEE/IFIP Network Operations and Management Symposium. Budapest, Hungary.
- HPDB 2021. [Workshop on High-Performance and Reliable Big Data](#) (co-located with SRDS 2021). Virtual format.
- IoT-SECFOR 2021. 5th International Workshop on Security and Forensics of IoT (held in conjunction with ARES). All-digital conference.
- Manage-IoT 2021. [1st IEEE/IFIP International Workshop on Internet of Things Management](#). Bordeaux, France (Virtual).
- IoT-SECFOR 2019. 3rd International Workshop on Security and Forensics of IoT (held in conjunction with ARES). Canterbury, UK.
- NOMS 2019. IEEE/IFIP Network Operations and Management Symposium. Washington, DC, USA.
- WSDF 2018. 11th International Workshop on Digital Forensics (held in conjunction with ARES). Hamburg, Germany.
- NOMS DOMINOS 2018. IEEE/IFIP Network Operations and Management Symposium, Decentralized Orchestration and Management of Distributed Heterogeneous Things Workshop. Taipei, Taiwan.
- MobiApps 2017. International Workshop on Mobile Applications. Prague, Czech Republic.

Member of Academic Evaluation Committees

- Doctorate's
 - 2022-05-24 - Positioning Services in Different Wireless Networks: A Development and Security Perspective - University of Jyväskylä
 - 2021-11-26 - Holistic Performance and Scalability Analysis for Large-Scale Distributed Systems - Universidade do Minho
 - 2019-11-14 - (*pre-thesis*) - End-to-End Software-Defined Security for Big Data Ecosystem - Universidade do Minho
 - 2016-07-11 - Energy-aware Service Provisioning in P2P-assisted Cloud Ecosystems - Universitat Politècnica de Barcelona
- Master's
 - 2023-06-19 - Networking in Virtual Container Networks - IST, UL
 - 2022-12-09 - Gestão de permissões e acesso a dados para Hyperledger Fabric - U Minho
 - 2022-12-07 - Sistemas de Detecção de Intrusão utilizando Machine Learning - FC, U Porto
 - 2022-11-25 - Extensible and Flexible Multi-Factor Authentication for an Online Banking Platform - IST, UL
 - 2022-11-15 - Military Cryptographic Material Manager - IST, UL
 - 2022-11-11 - XTraN Green Driving App - IST, UL
 - 2022-11-10 - A secure data dissemination scheme supporting conjunctive keyword searchable encryption for connected vehicle networks - IST, UL
 - 2022-11-09 - XTraN Reports and Dashboards - IST, UL
 - 2022-06-22 - Smart Home Energy Management - IST, UL
 - 2021-12-14 - Forensic Acquisition of File Systems with Parallel Processing of Digital Artifacts to Generate Early Case Assessment Report - IP Beja
 - 2021-11-23 - Constrained IoT authentication in Cloud services - IST, UL
 - 2021-11-23 - Internet Traffic Anomaly Warning Tool - IST, UL
 - 2021-11-23 - IoT Solution for Rental Houses - IST, UL
 - 2021-11-18 - Seamless ticketing SDK - IST, UL
 - 2021-11-17 - Blockchain based platform for Edge Computing as a service (ECaaS) - IST, UL
 - 2021-11-15 - BLE (Bluetooth Low Energy) For Public Transportation Contactless Card Emulation - IST, UL
 - 2021-11-15 - A Static Analysis-based Platform-as-Service to Improve the Quality of Smart Contracts - IST, UL
 - 2021-09-20 - Permissão Para Partilha Seletiva em Ambientes IoT / Selective Sharing Permissioning in IoT Environments - U Aveiro
 - 2021-07-13 - Sistema de Detecção de Intrusões em Ambientes IoT - U Coimbra
 - 2021-01-29 - CCalc: Cloud Calculator for the Public Administration - IST, UL
 - 2021-01-19 - Drones for Intralogistics using IoT - IST, UL
 - 2021-01-19 - Software-based Framework for Drone Swarm Communication - IST, UL
 - 2020-10-02 - Sistema de bilhética com QR Code seguros e com um novo sistema de pagamento - IST, UL
 - 2020-09-30 - Confirmação Automática de Presenças com IoT - IST, UL
 - 2020-09-28 - DynamicPOI: Middleware for developing exhibition navigation applications - IST, UL
 - 2020-02-05 - Cyber Situational Awareness Dashboard for Information Security - Academia Militar
 - 2019-12-19 - RideShare: Trustworthy ridesharing evidences for a rewarding system - U Aveiro
 - 2019-11-28 - Cibersegurança em Cidades Inteligentes - IST, UL

- 2019-11-28 - Multi-Cloud Deployment and Execution of Earth Observation Services - IST, UL
- 2019-11-22 - An Ecosystem for Securing Vehicle-to-Everything Communication - IST, UL
- 2019-11-21 - Migration of Legacy Applications to the Cloud - IST, UL
- 2019-11-19 - Application for Defining Complex Smart Home Behavior - IST, UL
- 2019-11-15 - Blockchain for Academic Records - IST, UL
- 2018-12-03 - Polyglot: Sistema poliglota de processamento de dados - U Minho
- 2018-12-03 - Aplicações Web com requisitos de armazenamento e processamento privados - U Minho
- 2018-11-19 - Dynamic OSINT System Sourcing from Social Networks - UBI
- 2018-11-08 - Detection of Botnet Activity via Machine Learning - IST, UL
- 2018-11-06 - Secure Model of Web APIs development in the Cloud - IST, UL
- 2018-06-06 - Monitorização de Pessoas em Ambiente Doméstico - IST, UL
- 2018-06-05 - Service Integration Framework for TIBCO ActiveMatrix BusinessWorks 6 Integration Framework - IST, UL
- 2018-05-28 - Mobility Patterns through Mobile App for Public Transport Users - IST, UL
- 2017-11-10 - Internet Of Things como suporte a Seguros de Saúde - IST, UL
- 2017-11-08 - BikeApp - Rewarding App for Cyclists - IST, UL
- 2017-05-30 - Mecanismo de Segurança Aplicável à Difusão de Conteúdos Multimedia Adaptativos e Escaláveis em Redes Peer-to-Peer - IST, UL
- 2016-12-20 - Integration of browser-to-browser architectures with third party legacy cloud storage - FCT, UNL
- 2016-11-18 - Dynamic OSINT System Sourcing from Social Networks - UBI
- 2016-11-18 - Forensic Box for Quick Network-Based Security Assessments - UBI
- 2016-11-11 - Identity Management for Hyper-Linked Entities in reTHINK - IST, UL
- 2016-11-07 - Security Policies Support for the reTHINK Web Service Architecture, IST, UL
- 2016-07-19 - Data Security Mechanisms for IoT - U Aveiro
- 2016-06-02 - ShopAssist - A Unified, Interactive, Location-Aware System for Shopping - IST, UL
- 2016-05-30 - Storekeeper: A Security-Enhanced Cloud Storage Aggregation Service - IST, UL
- 2015-11-11 - Kit Kat NFC - Emulação de título de transporte seguro em telemóvel Android - IST, UL
- 2015-11-10 - Reliable electronic certification on mobile devices - IST, UL
- 2015-11-06 - Attendance Registration and Occupancy Estimation using Indoor Positioning Systems - IST, UL
- 2015-07-13 - An ABAC Framework for IoT Applications Based on the OASIS XACML Standard - U Aveiro
- 2015-06-05 - Mobile application for playing a localized story - IST, UL
- Bachelor's
 - 2023-07-17 - IoT System for pH Monitoring in Industrial Facilities - ISEL
 - 2003-10-03 - Demographic evolutionary algorithms - IST, UTL
 - 2003-07-22 - Web Services distributed application - IST, UTL
- Professional High-school
 - 2020, 2021, 2023 - Committee Member for the evaluation of PAP (*Prova de Aptidão Profissional (PAP)* -- Professional Aptitude Evaluation). Colégio de São José do Ramalhão, Sintra, Portugal.

Associations

<i>Association</i>	<i>Number</i>
IEEE	80744621
ACM	7522675
Ordem dos Engenheiros (Portuguese Engineers Association)	41787
IADIS	20040135

Other qualifications

<i>Description</i>
Fluent in written and spoken Portuguese (native language)
Fluent in written and spoken English
Basic knowledge of French
Basic knowledge of Spanish
Basic knowledge of Italian
Basic knowledge of German