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## Carlos Serrão

<p><b>Director</b> Department of Digital Technologies (SINTRA)</p>
<p><b>Professor Associado</b> Department of Digital Technologies (SINTRA)</p>
<p><b>Deputy Coordinator</b> ISTAR-Iscte - Information Sciences, Technologies and Architecture Research Centre (ISTA) [Software Systems Engineering]</p>
<p><b>Integrated Researcher</b> ISTAR-Iscte - Information Sciences, Technologies and Architecture Research Centre (ISTA) [Software Systems Engineering]</p>



### Contacts

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### Curriculum

Born in Lisbon in 1973. Graduated in Computer Science and Business Management from ISCTE-IUL in 1997. Master's degree in Information Systems Management from ISCTE-IUL, specialising in Information Security, in 2004. PhD in Computer Architecture and Distributed Systems from the Polytechnic University of Catalonia (Barcelona) in 2008.

Since 2020, he has been an Associate Professor at ISCTE-IUL. Director of the Department of Digital Technologies. Director of the Master's Degree in Cybersecurity and Resilience. Coordinator of several courses related to Information Security and Cybersecurity. Since 2015, he has been a researcher at ISTAR-IUL, where he is part of the SSE (Software Systems Engineering) group, working in the areas of "Distributed Systems and Applications, Information Security and Cybersecurity", "Management and Protection of Digital Intellectual Property" and "Web and Mobile IS Development". He is an associate researcher at DMAG – Distributed Multimedia Applications Group (UPC, Spain).

Since 1996, he has participated in multiple national and international projects funded by FCT, the European Union, the European Space Agency and private entities. He is the author and co-author of dozens of articles and scientific papers in international conferences, newspapers and magazines, as well as project reports. He is also the author of several books on application development with the PHP programming language.

Member of OWASP (Open Web Applications Security Project) and leader of the Portuguese chapter (between 2007-2018) and co-leader of the Lisbon chapter (since 2022), collaborating in the dissemination, organisation of events and some of the organisation's projects. Founding member of the Portuguese Association for the Promotion of Information Security (AP2SI). Entrepreneur in ICT startups.

## Research Interests

Cybersecurity and Information Security
Distributed Systems, Applications and Information Security
Information Systems Security and Resilience
Management and Protection of e-Intellectual Property and e-Contents
Data and Information Privacy
Web-based and Mobile-based Information Systems

## Academic Qualifications

University/Institution	Type	Degree	Period
Universitat Politècnica de Catalunya	PhD	Arquitectura de Computadores e Sistemas Distribuidos	2008
ISCTE-IUL - Instituto Superior Ciências Trabalho e da Empresa	M.Sc.	Gestão de Sistemas de Informação	2003
ISCTE-IUL - Instituto Superior Ciências Trabalho e da Empresa	Licenciante	Informática e Gestão de Empresas	1997

## Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord.
2025/2026	2º	Applied Cryptography		Yes
2025/2026	2º	Cybersecurity Law and Ethics		Yes
2025/2026	2º	Security Operations and Incident Management		Yes
2025/2026	2º	Applied Project in Digital Technologies and Information Security II	Bachelor Degree in Digital Technologies and Information Security;	Yes

2025/2026	2°	Software and Application Security and Resilience		Yes
2025/2026	2°	Cybersecurity for Health Systems		Yes
2025/2026	1°	Digital Forensic Analysis	Bachelor Degree in Digital Technologies and Information Security;	Yes
2025/2026	1°	Digital Systems and Networks Security Auditing		Yes
2025/2026	1°	Introduction to Cybersecurity		No
2025/2026	1°	Applied Project in Digital Technologies and Information Security I	Bachelor Degree in Digital Technologies and Information Security;	Yes
2025/2026	1°	Cryptography for Cybersecurity and Resilience	Master Degree in Cybersecurity and Resiliency;	No
2025/2026	1°	Fundamentals of Cybersecurity and Resilience Management	Master Degree in Cybersecurity and Resiliency;	No
2025/2026	1°	Cyber-risk Management for Resilience		Yes
2025/2026	1°	Cibersecurity in the School Environment		Yes
2024/2025	2°	Applied Cryptography	Bachelor Degree in Digital Technologies and Information Security;	Yes
2024/2025	2°	Cybersecurity Law and Ethics		Yes
2024/2025	2°	Security Operations and Incident Management	Bachelor Degree in Digital Technologies and Information Security;	Yes
2024/2025	2°	Applied Project in Digital Technologies and Information Security II	Bachelor Degree in Digital Technologies and Information Security;	Yes
2024/2025	2°	Cybersecurity for Health Systems	Master Degree in Managing Digital Transformation in the Health Sector;	Yes
2024/2025	1°	Networks and Information Systems Security	Master Degree in Telecommunications and Computer Engineering; Master Degree in Computer Engineering;	Yes
2024/2025	1°	Digital Forensic Analysis		Yes
2024/2025	1°	Digital Systems and Networks Security Auditing		Yes

2024/2025	1°	Cybersecurity and Blockchain	Master Degree in Digital Technologies for Business;	Yes
2024/2025	1°	Introduction to Cybersecurity		Yes
2024/2025	1°	Software and Application Security		Yes
2024/2025	1°	Applied Project in Digital Technologies and Information Security I	Bachelor Degree in Digital Technologies and Information Security;	Yes
2024/2025	1°	Cibersecurity in the School Environment		Yes
2024/2025	1°	Training for Executives	Training Course in Cybersecurity for Executives;	Yes
2023/2024	2°	Information Systems Security	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2023/2024	2°	Applied Cryptography	Bachelor Degree in Digital Technologies and Information Security;	Yes
2023/2024	2°	Introduction to Cybersecurity		Yes
2023/2024	1°	Networks and Information Systems Security	Master Degree in Telecommunications and Computer Engineering; Master Degree in Computer Engineering;	Yes
2023/2024	1°	Databases and Security		Yes
2023/2024	1°	Cybersecurity and Blockchain	Master Degree in Digital Technologies for Business;	No
2023/2024	1°	Introduction to Cybersecurity	Bachelor Degree in Digital Technologies and Information Security; Bachelor Degree in Digital Educational Technologies;	Yes
2022/2023	2°	Information Systems Security	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2022/2023	1°	Networks and Information Systems Security	Master Degree in Telecommunications and Computer Engineering; Master Degree in Computer Engineering;	Yes
2022/2023	1°	Introduction to Cybersecurity		Yes
2021/2022	2°	Information Systems Security	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2021/2022	2°	Cybersecurity and Blockchain		No

2021/2022	1°	Networks and Information Systems Security	Master Degree in Telecommunications and Computer Engineering; Master Degree in Computer Engineering;	Yes
2021/2022	1°	IoT for Smart Cities	Specialization Seminar in IoT for Smart Cities;	No
2021/2022	1°	Security, Ethics and Privacy	Bachelor Degree in Data Science (PL); Bachelor Degree in Data Science;	No
2020/2021	2°	Information Systems Security	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2020/2021	1°	Networks and Information Systems Security	Master Degree in Telecommunications and Computer Engineering; Master Degree in Computer Engineering;	Yes
2020/2021	1°	Security, Ethics and Privacy	Bachelor Degree in Data Science (PL); Bachelor Degree in Data Science;	No
2019/2020	2°	Mobile Applications Development		Yes
2019/2020	2°	Business Intelligence Systems Project Management	Master Degree in Integrated Business Intelligence Systems;	Yes
2019/2020	2°	Project in Digital Management		Yes
2019/2020	1°	Networks and Information Systems Security	Master Degree in Telecommunications and Computer Engineering;	Yes

## Supervisions

### • Ph.D. Thesis

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Luo Guan	Case Study on Critical Success Factors for E-procurement Implementation Project of H Group.	English	Iscte	2024
2	Luo Guan	An Extended TOE Model for Digital Procurement Adoption of Chinese Construction Industry: A Case Study of H Group	English	Iscte	2023
3	Joaquim Marques	--	Portuguese	Iscte	2016
4	Joaquim José Gonçalves Marques	Gestão digital da propriedade intelectual de conhecimento científico e educacional	--	Iscte	2016

5	Joaquim José Gonçalves Marques	Gestão digital da propriedade intelectual de conhecimento científico e educacional	English	Iscte	2011
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## • M.Sc. Dissertations

### - Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Emma Carolina Rosa de Oliveira	Analysis of authentication mechanisms and habits in Portuguese healthcare organizations and their implications for information security	Portuguese	Delivered	Iscte
2	Bernardo Luís da Silva Pinto Coelho	Intelligent and Secure Framework Specification for Health	--	Developing	Iscte
3	Henrique José Barros Filipe	Cybersecurity in nursing practice and digital health	--	Developing	Iscte
4	Tiago Jantarada Patrício	Evaluation of Privacy-Preserving Techniques and Their Impact	--	Developing	Iscte
5	Sirpa Impinen	Securing Interoperability Aligning EHDS and NIS2 Requirements in European Healthcare Cybersecurity	English	Developing	Iscte
6	Tiiia Minttu Karoliina Bäcklund	Understanding Data Protection Practices in the Social and Healthcare Sector: A Survey on Professionals' Experiences and Training Needs	English	Developing	Iscte
7	Leonor Dos Santos Ramos	Medical Data Protection	--	Developing	Iscte
8	Gonçalo dos Santos Reverso de Matos Pereira	Assessment of the alignment of good cybersecurity practices in organizations	--	Developing	Iscte
9	Danilo Palácio Sabóia	Intelligent Knowledge Management System for Cybersecurity Incident Response with Machine Learning Integration	--	Developing	Iscte
10	Pedro José Guerra Monteiro dos Santos	Evaluating the Security State of Widely-Used Open-Source Web Applications on the WWW	--	Developing	Iscte
11	Luís Filipe Abreu da Fonseca Silva	Leveraging the Blockchain for IoT Security	--	Developing	Iscte
12	João Mário Cortiços Lameiras	Intelligent attack detection system	--	Developing	Iscte
13	Ofélia da Silva Zaragoza Malheiros	Cyber Supply Chain Risk Management	--	Developing	Iscte

14	João Pedro dos Santos Esteves Cajado	Compliance analysis of authentication information security policies	--	Developing	Iscte
15	Ivo Miguel de Sousa Rebelo	Detection and Mitigation of DDoS Attacks in Peer-to-Peer Networks	--	Developing	Iscte
16	Miguel Filipe Nabais Martins	Secure Storage of Information in Multicloud Environment	--	Developing	Iscte
17	João Miguel Pinto Ferreira Nunes	The Impact of the Advent of AI in Cybersecurity Professionals	--	Developing	Iscte
18	Ruben Filipe Mansinho da Silva	Web Application to evaluate the security of an organization's infrastructure and network equipment	--	Developing	Iscte
19	André da Paz Henriques Amado	Shielding Against Cyber Threats through Machine Learning Log Analysis	--	Developing	Iscte
20	Tiago Filipe Patronilho Almeida	Impact of Cyber Range Tools in Cybersecurity Training	--	Developing	Iscte
21	José Miguel Barras Magrinho	Access control of user private information based on Blockchain and DLT	Portuguese	Developing	Iscte
22	Marco Antônio Moreira Pinho de Camargo	Security Analysis in IoT Devices	--	Developing	Iscte

#### - Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	João Miguel Isidro Antas	Cybersecurity Risk Assessment in the Financial Sector: An AI-Based Approach to Supplier Management and Access Controls	Portuguese	Iscte	2025
2	Diogo Filipe Pires Godinho	Automating Cyber Attack Response Procedures: An AI Approach for SOC Analysts	English	Iscte	2025
3	João Afonso Ribeiro da Conceição Vilarés Pereira	Establishing Trust in e-Commerce Review Systems with Decentralized Solutions	English	Iscte	2025
4	Tomás Alexandre Tátá Santos Silva Isidoro	Development of a cybersecurity framework for cloud environments adapted to the retail sector	English	Iscte	2025
5	Tiago Miguel Ramalho Batista	Proposed Cybersecurity Model for the Banking Sector, Based on Best Practices from Leading Reference Frameworks	Portuguese	Iscte	2025

6	Ana Rita Paulo Raposo	OSCAR: A Software-Based System to Support Information Incident Response	English	Iscte	2024
7	Diogo da Silva Moreira	Intelligent Platform for Automating Vulnerability Detection in Web Applications	Portuguese	Iscte	2024
8	Miriam Isabel Farinha Rodrigues	Knowledge Management System for Cybersecurity Incident Response	English	Iscte	2024
9	Farisah Adilia	Raising Cybersecurity Awareness of Telecommunication Company Employee Through Instagram Campaign, Case Study: PT Media Telekomunikasi Mandiri	English	Iscte	2023
10	João Pedro Delgado Seara	Intelligent System for Automation of Security Audits (SIAAS)	English	Iscte	2023
11	João Miguel Jorge Manuelito Faria	Assessment of Iscte's Cybersecurity Capabilities	English	Iscte	2023
12	João Pedro da Mota Pereira de Figueiredo	Deep Learning Model Transposition for Network Intrusion Detection Systems	English	Iscte	2022
13	Hugo Pinto João	Web Application Penetration Test: Case Study of VTXRM ? Software Factory	English	Iscte	2021
14	João Pedro Santos Lola	Towards Transparent and Secure IoT: Device Intents Declaration, and User Privacy Self Awareness and Control	English	Iscte	2021
15	Pedro Miguel Carneiro Alexandre	Europeanization processes regarding matters of Cybersecurity: the case of Portugal	English	Iscte	2020
16	Sandro Camilo Alpoim Ferreira	Distributed system for data collection in sport events	Portuguese	Iscte	2020
17	Emanuel Agostinho Sebastião Mateus	Security assessment of Angolan universities' websites	Portuguese	Iscte	2020
18	Nuno Alexandre Realista Ferreira	Risk and Threat Level Automated Calculation on Android Application Development	Portuguese	Iscte	2020
19	André Filipe Ferreira de Almeida	Privacy and Personal Data Protection - Design of Safe and Private Business Processes in Organizations	Portuguese	Iscte	2020
20	Luis Manuel Cerqueira Dias Pereira Ramos	Recommendation of a security architecture for data loss prevention	English	Iscte	2020
21	Francisco Livramento da Palma	Analysis, Detection and Classification of Android Application Vulnerabilities using OWASP Top 10	Portuguese	Iscte	2020



22	João Pedro Lapa da Silva Lopes	Malware detection methods for Android malware applications	English	Iscte	2020
23	Raphael Alexandre Sperandio Candello	Detection and Interactive Visualization of Vulnerabilities on Mobile Android Applications	Portuguese	Iscte	2019
24	David Eduardo Louro Adão Cadeirinhas	diDiscount - Distributed Mobile Application for Evaluation and Recruitment of Training Soccer Players	Portuguese	Iscte	2019
25	Bruno Miguel Filipe da Costa Coitos	An Intelligent System for Interactive Visits in Smart Places	English	Iscte	2019
26	Luís Carlos Lima Marques	Verification of the robustness of passwords in a distributed and voluntary way through the WWW	Portuguese	Iscte	2018
27	João Filipe Machado de Matos Fernandes	System for Detection of Parking Zones for Smart Cities	Portuguese	Iscte	2018
28	João Paulo Serafim Lobato	A Blockchain-based Information Security Solution for a Distributed Multi-Cloud Secure Storage System (DMCS3)	English	Iscte	2018
29	Pedro Caetano Manso	A Novel SDN-Based Intrusion Detection System for Early Detection and Mitigation of DDoS Attacks	Portuguese	Iscte	2018
30	Bruno Aurélio Correia Santos Barros	Aplicação móvel distribuída para registo e avaliação em tempo real de desempenho de equipas desportivas	Portuguese	Iscte	2017
31	André Jorge Esser	Evil-Twin FrameworkA Wi-Fi intrusion testing framework for pentesters	English	Iscte	2017
32	Rui Manuel Neto Policarpo	Melhoria de Contacto com a Natureza Através de Utilização de Tecnologias Móveis	Portuguese	Iscte	2016
33	Pedro Jorge Duarte Carrilho Pereira Cananão	Plataforma de Registo e Gestão de Resultados de testes de Intrusão e Auditorias Automáticas	Portuguese	Iscte	2016
34	Fábio André Rodrigues Martins	Controlo e monitorização de informação clínica partilhada	Portuguese	Iscte	2016
35	Tiago Miguel Paulino Vieira	Análise de Aplicações no Sector Financeiro - Vulnerabilidades e Mitigações	Portuguese	Iscte	2016
36	Vítor Hugo Silva Sousa	Plataforma para análise de fugas de informação na World Wide Web	Portuguese	Iscte	2016
37	Tiago Filipe Paulino Santos	SecJSON - Secure Javascript Object Notation.	English	Iscte	2016
38	António José Rocha Teixeira	Identificação de vulnerabilidades em Aplicações Web Open Source	Portuguese	Iscte	2016

39	Marco André Henriques Carvalho	B-Start: ferramenta de apoio à geração e criação colaborativa de novas ideias e negócios.	Portuguese	Iscte	2015
40	Diogo António Cerejo Rocha	Execução confiável de código Javascript remoto.	English	Iscte	2015
41	Fábio Rúben Teixeira Marques Gomes Pais	Gestão da Confiança e da Privacidade em Conteúdos Gerados por Utilizadores em Redes Sociais	Portuguese	Iscte	2015
42	Nuno Gonçalo Rosa Nunes Pires	Sistema Móvel para Promoções Personalizadas e Marketing 1:1	Portuguese	Iscte	2014
43	Rui Pedro Silva Marques de Almeida	Web-security e-learning portal	Portuguese	Iscte	2013
44	André Filipe Marques Coelho	SiUind Aplicação Web de Partilha das Condições do Mar e do Vento	Portuguese	Iscte	2013
45	Bruno Filipe Silva Dinis	Execução de Testes de Penetração em Redes Usando a Recomendação Penetration Testing Execution Standart	Portuguese	Iscte	2013
46	Carmem Fernandes Tavares	Sistema Web e Mobile para Apoio à Gestão de Projectos de Sistemas de Informação	Portuguese	Iscte	2013
47	Vicente Nuno Sá Canhoto	Recomendação de musica: comparação entre collaborative Filtering e Context Filtering	Portuguese	Iscte	2013
48	Ronivon Candido Costa	Using kerberos for enterprise cloud authentication	English	Iscte	2013
49	Bruno Miguel Ricardo Rodrigues	Centro multimédia inteligente open-source baseado em hardware de baixo custo	Portuguese	Iscte	2013
50	Filipe Alexandre da Cruz Patrício	Remuneração e promoção de bandas e artistas independentes através de um portal de música online	Portuguese	Iscte	2013
51	Miguel André Rodrigues Gamito	Sistema integrado para a gestão de eventos de natureza científica	Portuguese	Iscte	2012
52	André Filipe Marques Francisco	Privacidade em redes sociais centrada no utilizador recorrendo à Gestão de direitos digitais	Portuguese	Iscte	2012
53	Sérgio Filipe Miranda Vicente Carvalho	Integração e divulgação de informação desportiva em redes sociais através de dispositivos móveis	Portuguese	Iscte	2012
54	Carlos Jorge Santos Sequeira Rodrigues	--	--	Iscte	2011
55	Nuno Filipe Martins da Silveira Reis Teodoro	--	--	Iscte	2011

56	André Parreira Ricardo	--	English	Iscte	2010
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## • M.Sc. Final Projects

### - Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Andreia Patrícia Semedo Motaco	Cybersecurity Plan for the Passos Manuel School Group: Diagnosis and Intervention	Portuguese	Delivered	Iscte

### - Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	André Santos Rouiller	Platform for aggregating and analysing institutional information and on social networks: an application to youth football	Portuguese	Iscte	2020
2	Pedro Miguel Lopes Martins da Silva	Cybersecurity Management in Financial Organizations	Portuguese	Iscte	2018

## Total Citations

Web of Science®	246
Scopus	433

## Publications

### • Scientific Journals

#### - Scientific journal paper

1	Moreira, D., Seara, J. P., Pavia, J. P. & Serrão, C. (2025). Intelligent platform for automating vulnerability detection in web applications. <i>Electronics</i> . 14 (1) - Times Cited Google Scholar: 1
2	Seara, J. & Serrão, C. (2024). Automation of system security vulnerabilities detection using open-source software. <i>Electronics</i> . 13 (5) - Times Cited Web of Science®: 2 - Times Cited Scopus: 5 - Times Cited Google Scholar: 10
3	Seara, J. & Serrão, C. (2024). Intelligent system for automation of security audits (SIAAS). <i>EAI Endorsed Transactions on Scalable Information Systems</i> . 11 (1) - Times Cited Web of Science®: 2 - Times Cited Scopus: 2 - Times Cited Google Scholar: 5

4	<p>Luo, G., Serrão, C., Liang, D. &amp; Zhou, Y. (2023). A relevance-based Technology-Organisation-Environment model of Critical Success Factors for Digital Procurement Adoption in Chinese construction companies. <i>Sustainability</i>. 15 (16)</p> <p>- Times Cited Web of Science®: 13</p> <p>- Times Cited Scopus: 11</p> <p>- Times Cited Google Scholar: 22</p>
5	<p>Lola, J., Serrão, C. &amp; Casal, J. (2023). Towards transparent and secure IoT: Improving the security and privacy through a user-centric rules-based system. <i>Electronics</i>. 12</p> <p>- Times Cited Web of Science®: 3</p> <p>- Times Cited Scopus: 3</p> <p>- Times Cited Google Scholar: 3</p>
6	<p>Elvas, L. B., Serrão, C. &amp; Ferreira, J. (2023). Sharing health information using a blockchain. <i>Healthcare</i>. 11 (2)</p> <p>- Times Cited Web of Science®: 26</p> <p>- Times Cited Scopus: 33</p> <p>- Times Cited Google Scholar: 50</p>
7	<p>Figueiredo, J., Serrão, C. &amp; de Almeida, A. (2023). Deep learning model transposition for network intrusion detection systems. <i>Electronics</i>. 12 (2)</p> <p>- Times Cited Web of Science®: 24</p> <p>- Times Cited Scopus: 36</p> <p>- Times Cited Google Scholar: 43</p>
8	<p>Duque, J., Mendes, G., Nunes, L., de Almeida, A. &amp; Serrão, C. (2022). Automated android malware detection using user feedback. <i>Sensors</i>. 22 (17)</p> <p>- Times Cited Google Scholar: 2</p>
9	<p>Mendes, G. S., Chen, D., Silva, B. M. C., Serrão, C. &amp; Casal, J. (2021). A novel reputation system for mobile app stores using blockchain. <i>Computer</i>. 54 (2), 39-49</p> <p>- Times Cited Web of Science®: 5</p> <p>- Times Cited Scopus: 8</p> <p>- Times Cited Google Scholar: 14</p>
10	<p>Manso, P., Moura, J. &amp; Serrão, C. (2019). SDN-based intrusion detection system for early detection and mitigation of DDoS attacks. <i>Information</i>. 10 (3)</p> <p>- Times Cited Web of Science®: 68</p> <p>- Times Cited Scopus: 120</p> <p>- Times Cited Google Scholar: 159</p>
11	<p>Coitos, B., Serrão, C. &amp; Garrido, N. (2019). An interactive location system for smart places. <i>INTSYS 2019: 3rd EAI International Conference on Intelligent Transport Systems</i>.</p>
12	<p>Santos, T. &amp; Serrão, C. (2017). Granular confidentiality and integrity of JSON messages. <i>International Journal of Intelligent Computing Research</i>. 8 (2), 839-848</p>
13	<p>Serrão, C. &amp; Cardoso, E. (2017). Handling confidentiality and privacy on cloud-based health information systems. <i>Journal of Information Privacy and Security</i>. 13 (2), 51-68</p> <p>- Times Cited Google Scholar: 3</p>
14	<p>Vieira, T. &amp; Serrão, C. (2016). Web applications security and vulnerability analysis financial web applications security audit – a case study. <i>International Journal of Innovative Business Strategies</i>. 2 (2), 86-94</p> <p>- Times Cited Web of Science®: 1</p> <p>- Times Cited Google Scholar: 11</p>

15	<p>Marques, J &amp; Serrão, C. (2014). Improving user content privacy on social networks using rights management systems. <i>Annales des Télécommunications</i>. 69 (1-2), 37-45</p> <p>- Times Cited Web of Science®: 10</p> <p>- Times Cited Scopus: 9</p> <p>- Times Cited Google Scholar: 11</p>
16	<p>Dinis, B. &amp; Serrão, C. (2014). Using PTES and open-source tools as a way to conduct external footprinting security assessments for intelligence gathering. <i>Journal of Internet Technology and Secured Transactions (JITST)</i>. 3 (3-4), 271-279</p> <p>- Times Cited Google Scholar: 7</p>
17	<p>Serrão, C., Carvalho, H. &amp; Carvalho, N. (2014). Crowdsourcing as a way to improve coastline conditions sharing. <i>International Journal for Digital Society</i>. 5 (3-4), 878-886</p>
18	<p>Serrão, C. &amp; Ricardo, A. (2013). Comparison of existing open-source tools for Web crawling and indexing of free Music. <i>Journal of Telecommunications</i>. 18 (1), 1-6</p> <p>- Times Cited Google Scholar: 9</p>
19	<p>Serrão, C., Delgado, J. &amp; Rodriguez, E. (2011). Approaching the rights management interoperability problem using intelligent brokerage mechanisms. <i>Computer Communications</i>. 34 (2), 129-139</p> <p>- Times Cited Web of Science®: 3</p> <p>- Times Cited Scopus: 9</p> <p>- Times Cited Google Scholar: 9</p>
20	<p>Marinheiro, R. N. &amp; Serrão, C. (2011). <i>Segurança em Redes e Aplicações: Desafios e Perspectivas de Futuro</i>. <i>Comunicações Revista da Associação Portuguesa para o Desenvolvimento das Comunicações</i>. 25 (199), 67-68</p>
21	<p>Serrão, C., Castro H., Alves P. &amp; Caraway B. (2010). A New Paradigm for Content Producers. <i>IEEE MultiMedia</i>. 17 (2), 90-93</p> <p>- Times Cited Web of Science®: 5</p> <p>- Times Cited Scopus: 6</p> <p>- Times Cited Google Scholar: 14</p>
22	<p>Torres, V., Serrão, C., Dias, J. &amp; Delgado, J. (2008). Open DRM and the future of media. <i>IEEE Multimedia</i>. 15 (2), 28-36</p> <p>- Times Cited Web of Science®: 13</p> <p>- Times Cited Scopus: 17</p> <p>- Times Cited Google Scholar: 30</p>
23	<p>Serrão, C., Torres, V., Delgado, J. &amp; Dias, M. (2006). Interoperability mechanisms for registration and authentication on different open DRM platforms. <i>International Journal of Computer Science and Network Security</i>. 6 (12), 291-303</p> <p>- Times Cited Google Scholar: 19</p>
24	<p>Serrão, C. (2005). Music-4you.com - digital music e-commerce case study. <i>IADIS International Journal on Internet/WWW</i>. 3 (1), 93-105</p>
25	<p>Serrão, C., Dias, J. &amp; Kudumakis, P. (2005). From OPIMA to MPEG IPMP-X: A standard's history across R&amp;D projects. <i>Signal Processing: Image Communication</i>. 20 (9-10), 972-994</p> <p>- Times Cited Web of Science®: 10</p> <p>- Times Cited Scopus: 14</p>

## • Books and Book Chapters

- Book author

1	Marques, J., Serrão, C. & Marques, J. (2009). Programação com PHP5.3. Lisboa. FCA.
2	Serrão, C., Delgado, J. & Dias, J. (2009). iDRM - interoperable Digital Rights Management: Interoperability Mechanisms for Open Rights Management Platforms. Alemanha. VDM Verlag. - Times Cited Google Scholar: 4
3	Marques, J. & Serrão, C. (2007). Programação com PHP 5. Lisboa. FCA. - Times Cited Google Scholar: 43
4	Serrão, C. & Marques, J. (2006). Programação com PHP5. Lisboa. FCA, Editora de Informática.
5	Marques, J., Serrão, C. & Marques, J. (2004). Programação com PHP 4.3. Lisboa. FCA. - Times Cited Google Scholar: 18
6	Marques, J. & Serrão, C. (2001). Programação com PHP 4. Lisboa. FCA.
7	Marques, J. & Serrão, C. (2000). Programação com PHP. Lisboa. FCA.

**- Book chapter**

1	Ferreira, N., Palma, F., Serrão, C., Nunes, L. & de Almeida, A. (2023). Improving android application quality through extendable, automated security testing. In Kevin Daimi, Abeer Alsadoon, Cathryn Peoples, Nour El Madhoun (Ed.), Emerging trends in cybersecurity applications. (pp. 251-274).: Springer. - Times Cited Scopus: 1 - Times Cited Google Scholar: 1
2	Garrido, N., Serrão, C. & Coitos, B. (2021). An interactive visiting system using BLE devices. In Fausto Pedro García Márquez, Benjamin Lev (Ed.), Internet of things: cases and studies. (pp. 135-153).: Springer.
3	Moura, J. & Serrão, C. (2015). Security and privacy issues of big data. In Noor Zaman, Mohamed Elhassan Seliaman, Mohd Fadzil Hassan, Fausto Pedro Garcia Marquez (Ed.), Handbook of research on trends and future directions in big data and web intelligence. (pp. 20-52).: IGI Global. - Times Cited Scopus: 29 - Times Cited Google Scholar: 113
4	Serrão, C. & Marques, J. (2013). Improving Content Privacy on Social Networks Using Open Digital Rights Management Solutions. In Maria Manuela Cruz-Cunha, João Varajão, Helmut Krcmar and Ricardo Martinho (Ed.), Procedia Technology - CENTERIS 2013 - Conference on ENTERprise Information Systems / ProjMAN 2013 - International Conference on Project MANagement/ HCIST 2013 - International Conference on Health and Social Care Information Systems and Technologies. (pp. 405-410). Holanda: Elsevier. - Times Cited Google Scholar: 14
5	Serrão, C. & Gamito, M. (2013). Building an Integrated System for the Management of Scientific Nature Events through Open Source Software Integration. In Álvaro Rocha, Ana Maria Correia, Tom Wilson, Karl A. Stroetmann (Ed.), Advances in Information Systems and Technologies. (pp. 763-772). Alemanha: Springer Berlin Heidelberg.
6	Serrão, C. (2010). MAC, a system for automatically IPR identification, collection and distribution. In Innovations in Computing Sciences and Software Engineering. (pp. 195-200).: Springer, Dordrecht.

7	<p>Teodoro, N. &amp; Serrão, C. (2010). Web applications security assessment in the Portuguese world wide web panorama. In Serrao, C; Diaz, VA; Cerullo, F (Ed.), Web Application Security: Iberic Web Application Security Conference, IBWAS 2009, Madrid, Spain, December 10-11, 2009. Revised Selected Papers. (pp. 63-73). Berlin: Springer Verlag.</p> <p>- Times Cited Web of Science®: 2  - Times Cited Scopus: 3  - Times Cited Google Scholar: 5</p>
8	<p>Carvalho, Helder, Serrão, C., Serrão, C., Dias, J., Serrão, C., Serra, A....Fernandes, A. (2007). Accessing earth observation data using JPEG2000. In João Manuel R.S. Tavares, Jorge R.M. Natal (Ed.), Computational Modelling of Objects Represented in Images. Fundamentals, Methods and Applications. (pp. 135-140). London: CRC Press.</p>
9	<p>Pacheco, A. &amp; Serrão, C. (2007). Developing secure web-applications - Security criteria for the development of e-democracy webapplications. In Innovative Algorithms and Techniques in Automation, Industrial Electronics and Telecommunications. (pp. 79-84).: Springer, Dordrecht.</p>
10	<p>Serrão, C., Dias, M. &amp; Delgado, J. (2006). Bringing DRM interoperability to digital content rendering applications. In Elleithy, K., Sobh, T., Mahmood, A., Iskander, M., and Karim, M. (Ed.), Advances in Computer, Information, and Systems Sciences, and Engineering. (pp. 323-330).: Springer.</p> <p>- Times Cited Web of Science®: 2  - Times Cited Scopus: 5  - Times Cited Google Scholar: 11</p>

## • Conferences/Workshops and Talks

### - Publication in conference proceedings

1	<p>Rajamäki, J., Rathod, P., Ferreira, J., Ahonen, O., Serrão, C. &amp; Gomes, M. C. (2024). Enhancing cybersecurity education for the healthcare sector: Fostering interdisciplinary ManagiDiTH approach. In 2024 IEEE Global Engineering Education Conference, EDUCON. Kos Island, Greece: IEEE.</p> <p>- Times Cited Web of Science®: 2  - Times Cited Scopus: 4  - Times Cited Google Scholar: 9</p>
2	<p>Mateus, E. &amp; Serrão, C. (2021). Vulnerability assessment of Angolan university web applications. In Domínguez Mayo, F., Marchiori, M., and Filipe, J. (Ed.), Proceedings of the 17th International Conference on Web Information Systems and Technologies. (pp. 518-525). Online: SCITEPRESS - Science and Technology Publications, Lda.</p> <p>- Times Cited Web of Science®: 1  - Times Cited Google Scholar: 3</p>
3	<p>Palma, F., Ferreira, N., Serrão, C., Oliveira, J., de Almeida, A. &amp; Nunes, L. (2020). Automated security testing of android applications for secure mobile development. In IEEE International Conference on Software Testing, Verification and Validation Workshops. (pp. 222-231). Porto: IEEE.</p> <p>- Times Cited Web of Science®: 4  - Times Cited Scopus: 6  - Times Cited Google Scholar: 8</p>
4	<p>Coitos, B., Serrão, C. &amp; Garrido, N. (2019). MOG - A smart mobile system for interactive museum visits. In Kommers, P., and Peng, G. C. (Ed.), Multi Conference on Computer Science and Information Systems, MCCSIS 2019 - Proceedings of the International Conferences on ICT, Society and Human Beings 2019, Connected Smart Cities 2019 and Web Based Communities. (pp. 191-198). Porto: IADIS Press.</p>

5	<p>Lopes, J. P., Serrão, C., Nunes, L., De Almeida, A. &amp; Oliveira, J. (2019). Overview of machine learning methods for Android malware identification. In Varol, A., Karabatak, M., Varol, C. and Teke, S. (Ed.), 2019 7th International Symposium on Digital Forensics and Security (ISDFS). Barcelos: IEEE.</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 9</li> <li>- Times Cited Scopus: 16</li> <li>- Times Cited Google Scholar: 25</li> </ul>
6	<p>Serrão, C. &amp; Garrido, N. (2018). A low-cost smart parking solution for smart cities based on open software and hardware. In Monteiro, V., Ferreira, J. C., and Martins, A. L. (Ed.), Intelligent Transport Systems, From Research and Development to the Market Uptake. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering. (pp. 15-25). Guimarães: Springer.</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 1</li> <li>- Times Cited Scopus: 4</li> <li>- Times Cited Google Scholar: 8</li> </ul>
7	<p>Fernandes, J., Serrão, C. &amp; Garrido, N. (2018). A low-cost smart parking solution for smart cities based on open software and hardware. In Springer (Ed.), INTSYS 2018 - 2nd EAI International Conference on Intelligent Transport Systems. (pp. 15-25). Guimarães: Springer.</p>
8	<p>Fernandes, J., Serrão, C. &amp; Garrido, N. (2018). Development of a low-cost smart parking solution for smart cities. In 4th International Conference on Connected Smart Cities 2018. (pp. 146-153). Madrid: IADIS.</p> <ul style="list-style-type: none"> <li>- Times Cited Scopus: 1</li> <li>- Times Cited Google Scholar: 1</li> </ul>
9	<p>Esser, A. &amp; Serrão, C. (2018). Wi-Fi network testing using an integrated Evil-Twin framework. In The Fifth International Conference on Internet of Things: Systems, Management and Security, IoTSMS 2018. (pp. 216-221). Valencia: IEEE.</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 3</li> <li>- Times Cited Scopus: 5</li> <li>- Times Cited Google Scholar: 8</li> </ul>
10	<p>Barros, B., Serrão, C. &amp; Lopes, R. (2018). Distributed crowd-based annotation of soccer games using mobile devices. In Pedro Pizarat-Correia; João Paulo Vilas-Boas; Octavio Rivera; Jan Cabri (Ed.), 6th International Congress on Sport Sciences Research and Technology Support. (pp. 40-48). Seville: SCITEPRESS.</p> <ul style="list-style-type: none"> <li>- Times Cited Scopus: 2</li> <li>- Times Cited Google Scholar: 5</li> </ul>
11	<p>Cardoso, M. G. M. S., Laureano, R. D. &amp; Serrão, C. (2017). Cybersecurity culture in Portuguese organizations: An exploratory analysis. In Reis, L. P., Rocha, A., Alturas, B., Costa, C. and Cota, M. P. (Ed.), 2017 12th Iberian Conference on Information Systems and Technologies (CISTI). (pp. 2090-2094). Lisbon, Portugal: IEEE.</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 2</li> <li>- Times Cited Google Scholar: 9</li> </ul>
12	<p>Santos, T. &amp; Serrão, C. (2016). Secure Javascript Object Notation (SecJSON): Enabling granular confidentiality and integrity of JSON documents. In 2016 11th International Conference for Internet Technology and Secured Transactions (ICITST). (pp. 329-334). Barcelona, Spain: IEEE.</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 4</li> <li>- Times Cited Scopus: 3</li> <li>- Times Cited Google Scholar: 6</li> </ul>
13	<p>Vieira, T. &amp; Serrão, C. (2016). Web security in the finance sector: Analysing the security of financial web applications: A case study. In 2016 11th International Conference for Internet Technology and Secured Transactions (ICITST). (pp. 255-259). Barcelona, Spain: IEEE.</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 2</li> <li>- Times Cited Scopus: 8</li> </ul>



14	Serrão, C. & Rocha, D. (2016). Secure and trustworthy remote JavaScript execution. In Piet Kommers, Pedro Isaías (Ed.), Proceedings of the IADIS International Conference e-Society. Vilamoura: Iadis.
15	Marques, J., Serrão, C. & Metrolho J. (2015). Content related rights transmission with MPEG-21 in the educational field. In Amanda Jefferies, Marija Cubric (Ed.), ECEL 2015: Proceedings of the 14th European Conference on e-Learning. Hatfield: Academic Conferences and Publishing Internatinal.
16	Marques, J. & Serrão, C. (2015). ARMS: A new approach to control content sharing and rights distribution. In L. Gómez Chova, A. López Martínez, I. Candel Torres (Ed.), EDULEARN15 Proceedings: 7th International Conference on Education and New Learning Technologies. Barcelona: IATED Academy.
17	Marques, J. & Serrão, C. (2015). Enabling content and rights transmission in the educational field with ARMS. In Pedro Isaías (Ed.), 14th International Conference on WWW/INTERNET 2015 Proceedings. Maynooth, Greater Dublin: IADIS. - Times Cited Google Scholar: 1
18	Serrão, C., Carvalho, H. & Carvalho, N (2015). MusicBeetle: Intelligent music royalties collection and distribution system. In Markus Helfert; Donald F Ferguson; Victor Mendez Munoz (Ed.), Proceedings of the 5th International Conference on Cloud Computing and Services Science. Lisboa: Scitepress. - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
19	Teodoro, N, Gonçalves, L. & Serrão, C. (2015). NIST cybersecurity framework compliance: A generic model for dynamic assessment and predictive requirements. In Raimo Kantola, Aalto-Yliopisto (Ed.), Proceedings 13th IEEE International Symposium on Parallel and Distributed Processing with Applications. Helsinki: IEEE. - Times Cited Web of Science®: 11 - Times Cited Scopus: 14 - Times Cited Google Scholar: 34
20	Serrão, C. & Dinis, B (2014). External footprinting security assessments: Combining the PTES framework with open-source tools to conduct external footprinting security assessments. In Charles A. Shoniregun, Galyna A. Akmayeva (Ed.), Proceedings of the IEEE International Conference on Information Society (i-Society 2014). London: IEEE. - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 5
21	Serrão, C., Coelho, A., Carvalho, H. & Carvalho, N (2014). SiUinde: A collaborative platform to share conditions for near-the-shore activities. In Charles A. Shoniregun, Galyna A. Akmayeva (Ed.), International Conference on Information Society (i-Society 2014). London: IEEE. - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 1
22	Ronivon, C. & Serrão, C. (2013). Enterprise to cloud security assessment a method using OSSTMM 3.0 concepts. In Fred, A., Liu, K., and Filipe, J. (Ed.), Proceedings of the International Conference on Knowledge Discovery and Information Retrieval and the International Conference on Knowledge Management and Information Sharing. (pp. 571-578). Vilamoura, Algarve: SciTePress.
23	Serrão, C. & Marques, J. (2012). Rights Management and Technological Protection Measures in Educational Field. In 11th European Conference on e-Learning ECEL-2012. (pp. 0-0). Gronigen
24	Serrão, C. & Marques, J. (2012). ARMS A new approach to rights management in educational field. In ICERI (Ed.), 5th International Conference of Education, Research and Innovation (ICERI2012). (pp. 0-0). Madrid: ICERI.

25	Marques, J. & Serrão, C. (2012). Technological protection measures on knowledge based content in academia. In 2012 15th International Conference on Interactive Collaborative Learning (ICL). Villach, Austria: IEEE. - Times Cited Google Scholar: 1
26	Serrão, C., Gamito, J. & Gamito, M. (2011). Comparação de Software Open-source para Gestão de Eventos de Natureza Científica. In 11ª Conferência da Associação Portuguesa de Sistemas de Informação. (pp. 38-0). Lisboa - Times Cited Google Scholar: 1
27	Serrão, C. & Teodoro, N. (2011). Assessing the Portuguese Web applications security. In IEEE (Ed.), World Congress on Internet Security (WorldCIS) 2011. (pp. 21-26). Londres: IEEE. - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
28	Serrão, C. & Martins, M. (2011). Sistemas de Gestão de Conteúdos Web para a Criação de redes sociais on-line: uma análise comparativa. In 11ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI 2011). (pp. 0-0). Lisboa - Times Cited Google Scholar: 1
29	Serrão, C. & Carvalho, S. (2011). Agregação e categorização de informação desportiva baseada em conteúdos gerados por utilizadores. In 11ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI 2011). (pp. 0-0). Lisboa - Times Cited Google Scholar: 1
30	Ricardo, A. & Serrão, C. (2011). Using open-source tools for web crawling and indexing of open content. In International Conference on Information Society (i-Society 2011) . (pp. 429-434). London: IEEE.
31	Serrão, C. & Rodrigues, C. (2011). Sistemas de Apoio à Tomada de Decisão de Treinadores desportivos uma análise ao Estado da Arte. In 11ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI 2011). (pp. 0-0). Lisboa
32	Teodoro, N. & Serrão, C. (2011). Web application security: Improving critical web-based applications quality through in-depth security analysis. In International Conference on Information Society (i-Society 2011). (pp. 457-462). London: IEEE. - Times Cited Scopus: 27 - Times Cited Google Scholar: 45
33	Serrão, C. & Marques J. (2011). DIGITAL RIGHTS MANAGEMENT IN THE EDUCATIONAL CONTEXT - AN OLD/NEW CHALLENGE. In IADIS (Ed.), IADIS International Conference Information Systems 2011. (pp. 0-0). Avila
34	Serrão, C. & Marques J. (2011). ACADEMIC CONTEXT and Rights enforcement on Knowledge based content. In 4th International Conference of Education, Research and Innovations (ICERI2011). (pp. 618-628). Madrid
35	Serrão, C. (2010). MAC, a system for automatically IPR identification, collection and distribution. In Sobh, T., and Elleithy, K. (Ed.), Innovations in Computing Sciences and Software Engineering. (pp. 195-200). Bridgeport: Springer.
36	Serrão, C., Marques, J. & Mendes, A. (2009). Rights management on knowledge-based digital content. In Reis, L. P., Rocha, A., Torrão, S., and Restivo, F. (Ed.), 4th Iberian Conference on Information Systems and Technologies, CISTI 2009. (pp. 579-584). Póvoa de Varzim: Associação Ibérica de Sistemas e Tecnologias de Informação.

37	Serrão, C., Delgado, J. & Dias, J. (2008). Secure License Management for Interoperable DRM Systems. In Miguel Baptista Nunes, Pedro Isaías and Philip Powell (Ed.), Proceedings of the IADIS International Conference Information Systems (ICIS2008), Algarve, Portuga. (pp. 57-64): IADIS.
38	Serrão, C. & Clara, M. (2007). Describing acoustic fingerprint technology integration for audio monitoring systems. In Sobh, T. (Ed.), Innovations and Advanced Techniques in Computer and Information Sciences and Engineering. (pp. 139-144). Bridgeport: Springer.
39	Carvalho, H., Serrão, C., Serra, A. & Dias, M. (2007). Accessing earth observation data using JPEG2000. In Tavares, J. M. R. S., and Jorge, R. M. N. (Ed.), Computational modelling of objects represented in images: Fundamentals, methods and applications: Proceedings of the International Symposium CompIMAGE 2006. (pp. 135-140). Coimbra: CRC Press .
40	Serrão, C., Dias, M. & Delgado, J. (2007). Key management in open DRM platforms. In Delgado, J., Ng, K., Nesi, P., and Bellini, P: (Ed.), Third International Conference on Automated Production of Cross Media Content for Multi-Channel Distribution (AXMEDIS'07). (pp. 47-54). Barcelona: IEEE. - Times Cited Google Scholar: 1
41	Serrão, C., Dias, M. & Delgado, J. (2007). Using service-oriented architectures towards rights management interoperability. In Tarek Sobh (Ed.), Innovations and advanced techniques in computer and information sciences and engineering. (pp. 519-524). Bridgeport: Springer. - Times Cited Google Scholar: 10
42	Serrão, C., Dias, J. & Delgado, J. (2007). PKI as a way to leverage DRM interoperability. In Jörg Roth, Jairo Gutiérrez and Ajith P. Abraham (Ed.), Proc Proceedings of the IADIS International Conference on Telecommunications, Networks and Systems 2007 (TNS2007). (pp. 100-104). Lisboa - Times Cited Google Scholar: 1
43	Serrão, C., Dias, M. & Delgado, J. (2007). Secure license management: Management of digital object licenses in a DRM environment. In Hernando, J., Fernández-medina, E., and Malek, M. (Ed.), Proceedings of the Second International Conference on Security and Cryptography. (pp. 251-256). Barcelona: SciTePress. - Times Cited Scopus: 3 - Times Cited Google Scholar: 9
44	Carvalho, H., Serra, A., Dias, L., Serrão, C. & Dias, M. (2007). Envisat products secure browsing in mobile clients using JPEG2000 interactivity protocol. In Lacoste, H., and Ouwehand, L. (Ed.), Proceedings of the Envisat Symposium 2007. Montreux: European Space Agency.
45	Pacheco, A. & Serrão, C. (2007). Developing secure web-applications - Security criteria for the development of e-democracy web-applications. In Sobh, T., Elleithy, K., Mahmood, A., and Karim, M (Ed.), Innovative Algorithms and Techniques in Automation, Industrial Electronics and Telecommunications. (pp. 79-84). Bridgeport: Springer. - Times Cited Web of Science®: 1
46	Serra, A., Dias, L., Serrão, C. & Dias, M. (2006). JPEG2000 image compression and visualization for desktop and mobile clients. In Shark, L.-K., Matuszewski, B. J., and Varley, M. R. (Ed.), Proceedings of the Atlantic Europe Conference on Remote Imaging and Spectroscopy. Preston, UK: Inderscience. - Times Cited Web of Science®: 2
47	Pimenta, F. & Serrão, C. (2006). Using OMA DRM 2.0 protected content: Ogg vorbis protected audio under symbian OS. In Malek, M., Fernández-medina, E., and Hernando, J. (Ed.), Proceedings of the International Conference on Security and Cryptography (SECRYPT 2006). (pp. 311-315). Setúbal, Portugal: SciTePress. - Times Cited Google Scholar: 1

48	<p>Serrão, C., Dias, M. &amp; Delgado, J. (2006). Digital object rights management: Interoperable client-side DRM middleware. In Malek, M., Fernández-medina, E., and Hernando, J. (Ed.), Proceedings of the International Conference on Security and Cryptography (SECRYPT 2006). (pp. 229-236). Setúbal, Portugal: SciTePress.</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 1</li> <li>- Times Cited Scopus: 1</li> <li>- Times Cited Google Scholar: 4</li> </ul>
49	<p>Serra, A., Dias, L., Serrão, C. &amp; Dias, J. (2006). JPEG2000 Image Compression and Visualization for Desktop and Mobile Clients. In Lik-Kwan Shark, Lik-Kwan Shark, Martin R. Varley (Ed.), Proc AECRIS 2006, Atlantic Europe Conference on Remote Imaging and Spectroscopy, Preston, United Kingdom. Preston: Inderscience Enterprises Limited.</p> <ul style="list-style-type: none"> <li>- Times Cited Google Scholar: 3</li> </ul>
50	<p>Pacheco, A., Serrão, C., Costa, C. &amp; Dias, F. (2006). Small screen rendering web-browser comparison: When web content is too large to fit the screen. In Filipe, J., and Greene, T. (Ed.), Proceedings of the International Conference on e-Business (ICE-B 2006). (pp. 145-150). Setúbal, Portugal: SciTePress.</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 2</li> <li>- Times Cited Scopus: 2</li> <li>- Times Cited Google Scholar: 3</li> </ul>
51	<p>Serrão, C., Marques, J., Dias, J. &amp; Delgado, J. (2006). Open-Source Software as a Driver for Digital Content E-Commerce and DRM Interoperability. In Leonardo Chiariglione, Wen Gao (Ed.), Proc of IPDM06 - The Europe-China Conference on Intellectual Property in Digital Media, Shangai, China.: Peking University.</p> <ul style="list-style-type: none"> <li>- Times Cited Google Scholar: 9</li> </ul>
52	<p>Serrão, C., Serra, A., Dias, M. &amp; Delgado, J. (2006). Protection of MP3 music files using digital rights management and symmetric ciphering. In Ng, K., Badii, A., and Bellini, P. (Ed.), 2006 Second International Conference on Automated Production of Cross Media Content for Multi-Channel Distribution (AXMEDIS'06). (pp. 128-135). Leeds, UK: IEEE.</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 1</li> <li>- Times Cited Scopus: 2</li> <li>- Times Cited Google Scholar: 9</li> </ul>
53	<p>Serrão, C., Carvalho, H., Dias, J. &amp; Serra, A. (2006). Flexible access to ESA Earth Observation data using JPEG2000 and DRM. In L. Colaiacomo (Ed.), Proceedings of the ESA-EUSC 2006 - Fourth Conference on Image Information Mining for Security and Intelligence, Torrejon air base - Madrid. Madrid: European Space Agency (ESA).</p> <ul style="list-style-type: none"> <li>- Times Cited Google Scholar: 1</li> </ul>
54	<p>Serrão, C., Dias, J. &amp; Delgado, J. (2006). Using Service-oriented architectures towards Rights Management Interoperability. In Toshio Fukuda, Tarek Sobh , Khaled Elleithy (Ed.), Proceedings of the Second International Joint Conferences on Computer, Information and System Sciences, and Engineering (CISSE2006), Bridgeport, USA. Bridgeport: University of Bridgeport .</p>
55	<p>Zenida, P., Sequeira, M. M. de., Serrão, C. &amp; Henriques, D. (2006). Zás - Aspect-oriented authorization services. In Filipe, J., Shishkov, B., and Helfert, M. (Ed.), Proceedings of the 1st International Conference on Software and Data Technologies (ICSOF 2006). (pp. 46-53). Setúbal, Portugal: INSTICC Press.</p>
56	<p>Sadourny, Y., Conan, V., Serrão, C. &amp; Fonseca, P. (2005). WCAM: secured video surveillance with digital rights management. In Said A., Apostolopoulos J.G. (Ed.), Proceedings of SPIE - The International Society for Optical Engineering. (pp. 27-38). San José: SPIE - The International Society for Optical Engineering.</p> <ul style="list-style-type: none"> <li>- Times Cited Scopus: 1</li> <li>- Times Cited Google Scholar: 1</li> </ul>

57	<p>Serrão, C., Dias, J. &amp; Delgado, J. (2005). Using Web-Services to Manage and Control Access to Multimedia Content. In Arabnia, H. R. (Ed.), ISWS'05- The 2005 International Symposium on Web Services and Applications, Las Vegas, Nevada, USA. (pp. 1-6).</p> <p>- Times Cited Web of Science®: 2 - Times Cited Google Scholar: 14</p>
58	<p>Serrão, C., Delgado, J. &amp; Dias, J. (2005). Using ODRL to express rights for different content usage scenarios. In ODRL 2005 - 2nd International Open Digital Rights Language Workshop 2005. Lisboa</p> <p>- Times Cited Scopus: 6 - Times Cited Google Scholar: 12</p>
59	<p>Serrão, C., Serra, A. &amp; Dias, M. (2005). HICOD2000 - Integrated system for coding, protection and trading of earth observation products in JPEG2000. In Villanueva, J. J. (Ed.), Proceedings of the 5th IASTED International Conference on Visualization, Imaging, and Image Processing, VIIP 2005. (pp. 248-252). Benidorm, Spain: ACTA Press.</p> <p>- Times Cited Scopus: 1 - Times Cited Google Scholar: 2</p>
60	<p>Serrão, C., Dias, M. &amp; Delgado, J. (2005). Using web-services to manage and control access to multimedia content. In Arabnia, H. R. (Ed.), ISWS '05: Proceedings of the 2005 International Symposium on Web Services and Applications. (pp. 23-28). Las Vegas, Nevada, USA: CSREA Press.</p> <p>- Times Cited Google Scholar: 14</p>
61	<p>Serra, A., Dias, L., Serrão, C., Dias, J. &amp; Trezentos, P. (2004). Parallel JPEG2000 Encoding on a Beowulf Cluster. In Nuno Guimarães and Pedro Isaiás (Ed.), Proc International Conference – Applied Computig 2004, IADIS 2004, Lisboa. Lisboa: IADIS.</p>
62	<p>Serrão, C. (2004). Open secure infrastructure to control user access to multimedia content. In Delgado, J., Nesi, P., and Ng, K. (Ed.), Proceedings of the Fourth International Conference on Web Delivering of Music, WEDELMUSIC 2004. (pp. 62-69). Barcelona: IEEE.</p> <p>- Times Cited Web of Science®: 4 - Times Cited Scopus: 6 - Times Cited Google Scholar: 17</p>
63	<p>Serra, A., Trezentos, P., Serrão, C., Dias, L. &amp; Dias, J. (2003). Increasing the Performance of JPEG2000 Encoding through High-Performance Computing. In Mohamed Hamza (Ed.), Proc of Visualization, Imaging, and Image Processing (VIIP 2003), Benalmadena, Málaga. Benalmádena: Acta Press.</p>
64	<p>Serrão, C., Serra, A., Fonseca, P. &amp; Dias, J. (2003). A method for protecting and controlling access to JPEG2000 images. In Proceedings of SPIE - The International Society for Optical Engineering. (pp. 272-286): SPIE.</p> <p>- Times Cited Scopus: 5 - Times Cited Google Scholar: 10</p>
65	<p>Serrão, C. &amp; Marques, J. (2002). DIGIPIPE - A pipeline methodology for digital image production and protection. In Grgic, M. (Ed.), Proceedings VIPromCom 2002 - 4th EURASIP - IEEE Region 8 International Symposium on Video / Image Processing and Multimedia Communications. (pp. 411-416). Zadar, Croatia: IEEE.</p> <p>- Times Cited Scopus: 1 - Times Cited Google Scholar: 2</p>
66	<p>Serrão, C. (1999). Protecting intellectual proprietary rights through secure interactive contract negotiation. In Multimedia Applications, Services and Techniques - Ecmast'99.</p> <p>- Times Cited Google Scholar: 8</p>

1	Matos, F., Salavisa, I. & Serrão, C. (2021). Proceedings of the 3rd European Conference on the Impact of Artificial Intelligence and Robotics - ECIAR 2021. Virtual Conference. Academic Conferences International Limited.
2	O'Neill, Henrique, Costa, C., Domingues, L., Alturas, B. & Serrão, C. (2015). CAPSI 2015 - Atas da 15ª Conferência da Associação Portuguesa de Sistemas de Informação - Os sistemas de Informação da Gestão de Conhecimento, na Educação e na Formação. Lisboa. ISCTE - Instituto Universitário de Lisboa.
3	Serrão, C., Aguilera, V. & Cerullo, F. (2010). 2nd. OWASP Ibero-American Web Application Security Conference. Lisboa. OWASP.
4	Serrão, C., Díaz, V.A. & Cerullo, F. (2010). Communications in Computer and Information Science. Madrid. Springer.

**- Talk**

1	Coitos, B., Serrão, C. & Garrido, N. (2019). MOG - a smartmobile system for interactive museum visits. International Conference on Connected Smart Cities.
2	Fernandes, J., Serrão, C. & Garrido, N. (2018). Development of a Low-Cost Smart Parking Solution For Smart Cities . International Conference Connected Smart Cities 2018 (CSC 2018).
3	Laureano, M., Cardoso, M. G. M. S. & Serrão, C. (2017). Cybersecurity culture in Portuguese organizations: an exploratory analysis. CISTI'2017 - 12ª Conferência Ibérica de Sistemas e Tecnologias de Informação.
4	Santos, T. & Serrão, C. (2016). Secure Javascript Object Notation (SecJSON): Enabling granular confidentiality and integrity of JSON documents. 11th International Conference for Internet Technology and Secured Transactions (ICITST-2016).
5	Vieira, T. & Serrão, C. (2016). Web security in the Finance Sector: Analysing the security of financial web applications – a case study. 11th International Conference for Internet Technology and Secured Transactions (ICITST-2016).
6	Serrão, C. & Rocha, D. (2016). Secure and trustworthy remote javascript Execution. Proceedings of the 14th International Conference on e-Society 2016. 39-46
7	Marques, J. & Serrão, C. (2015). ARMS – A NEW APPROACH TO CONTROL CONTENT SHARING AND RIGHTS DISTRIBUTION. 7th annual International Conference on Education and New Learning Technologies (EDULEARN15). 5597-5607
8	Marques, J., Serrão, C. & Metrolho J. (2015). Content related rights transmission with MPEG-21 in the educational field. 14th European Conference on e-Learning (ECEL-2015). 329-338
9	Teodoro, N, Luis Gonçalves & Serrão, C. (2015). NIST CyberSecurity Framework Compliance - A Generic Model for Dynamic Assessment and Predictive Requirements. 14th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom-15). III, 418-425
10	Serrão, C., Carvalho, H. & Carvalho, N (2015). MusicBeetle - Intelligent Music Royalties Collection and Distribution System. 5th International Conference on Cloud Computing and Services Science, CLOSER 2015. 406-413

11	Marques, J. & Serrão, C. (2015). Enabling Content and rights transmission in the Educational field with ARMS. 14th International Conference on WWW/Internet (ICWI 2015).
12	Serrão, C., Coelho, A., Carvalho, H. & Carvalho, N (2015). SiUinde – A collaborative platform to share conditions for near-the-shore activities. Information Society (i-Society), 2014 International Conference on. 57-62 - Times Cited Web of Science®: 1
13	Marques, J. & Serrão, C. (2015). ARMS – A NEW APPROACH TO CONTROL CONTENT SHARING AND RIGHTS DISTRIBUTION. EDULEARN15 Proceedings .
14	Marques, J. & Serrão, C. (2015). DIGITAL RIGHTS IN THE EDUCATIONAL FIELD - MECHANISMS FOR LICENSE VALIDATION. ICERI2015 Proceedings.
15	Marques, J. & Serrão, C. (2015). ENABLING CONTENT AND RIGHTS TRANSMISSION IN THE EDUCATIONAL FIELD WITH ARMS. PROCEEDINGS OF THE 14th INTERNATIONAL CONFERENCE WWW/INTERNET 2015.
16	Marques, J. & Serrão, C. (2015). Content Related Rights Transmission With MPEG-21 in the Educational Field. Proceedings of the 14th European Conference on e-Learning University of Hertfordshire Hatfield, UK.
17	Serrão, C. & Dinis, B (2014). External footprinting security assessments - Combining the PTES framework with open-source tools to conduct external footprinting security assessments. International Conference on Information Society (i-Society 2014). 313-318
18	Serrão, C. & Marques, J. (2013). Improving content privacy on social networks using open digital rights management solutions. CENTERIS 2013 - Conference on ENTERprise Information Systems.
19	Serrão, C. & Ronivon, C. (2013). Enterprise to Cloud Security Assessment: A Method Using OSSTMM 3.0 Concepts. ISI-BDM 2013 Special Session on Information Security Intelligence for Business Decision Makers (part of IC3K 2013).
20	Serrão, C. & Gamito, M. (2013). Building an Integrated System for the Management of Scientific Nature Events through Open Source Software integration. World Conference on Information Systems and Technologies (WorldCIST'13) .
21	Marques, J. & Serrão, C. (2012). Rights Management and Technological Protection Measures in Educational Field. Proceedings of the 11th European Conference on eLearning.
22	Marques & Serrão, C. (2012). ARMS –A new approach to rights management in educational field. ICERI2012 Proceedings.
23	Dias, L., Serrão, C., Dias, J., Serra, A. & Dias, J. (2006). JPEG2000 Image Compression and Visualization for Desktop and Mobile Clients. Atlantic Europe Conference on Remote Imaging and Spectroscopy (AECRIS2006).
24	Dias, L., Serrão, C., Trezentos, P., Dias, J. & Serra, A. (2004). Parallel JPEG200 Encoding on a Beowulf Cluster. IADIS International Conference, Applied Computing.
25	Dias, L., Trezentos, P., Serrão, C., Dias, J. & Serra, A. (2003). Increasing the Performance of JPEG2000 Encoding Through High-Performance Computing. Visualization, Imaging , and Image Processing (VIIP 2003).

## • Other Publications

### - Entries/Forewords/Afterwords



1	Serrão, C., Iannella, R. & Guth, S. (2005). Preface. ODRL 2005 - 2nd International Open Digital Rights Language Workshop 2005.
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**- Non-peer-reviewed papers**

1	Serrão, C. (2010). A segurança das aplicações e sistemas de informação baseados na WWW - Mais do que a visão alcança. POSI Mag, Publicação do Curso de Pós-Graduação em Sistemas de Informação / Consórcio POSI. 3, 32-35
2	Serrão, C. (2010). DRM porque falhou?. POSI Mag, Publicação do Curso de Pós-Graduação em Sistemas de Informação / Consórcio POSI. 4, 26-30
3	Serrão, C. (2007). Accessing earth observation data using JPEG2000. Computational Modelling of Objects Represented in Images: Fundamentals, Methods and Applications.
4	Serrão, C. (2005). WCAM: secured video surveillance with digital rights management. Image and Video Communications and Processing 2005, Pts 1 and 2.
5	Serrão, C. (2003). A method for protecting and controlling access to JPEG2000 images. Applications of Digital Image Processing Xxvi. - Times Cited Web of Science®: 2

**- Other publications**

1	Martins Gerales, S. & Serrão, C. (2020). Entrevista "Duas visões sobre a cibersegurança". Revista EntreCampos.
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**- Master's Dissertation**

1	Serrão, C. (2002). A importância das Infra-estruturas de Chave Pública no Comércio Electrónico de Conteúdos Digitais. - Times Cited Google Scholar: 1
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**- Doctoral Thesis**

1	Serrão, C. (2008). iDRM – Interoperability Mechanisms for Open Rights Management Platforms.
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**- Newspaper article**

1	Serrão, C. (2022). Garantir a segurança das aplicações Web com o OWASP Top 10. newDATA Magazine. 2022 (14), 16-21
2	Serrão, C. (2022). Importância da Educação e Ensino em Cibersegurança. newDATA Magazine. 2022 (14), 7-8

**Research Projects**



Project Title	Role in Project	Partners	Period
Crossing the Atlantic for Scientific and Teaching-Learning Cooperation	Researcher	ISTAR-Iscte (DLS) - Leader, BSU - (United States of America)	2024 - 2025
Master's Degree of Managing Digital Transformation in the Health Sector	Researcher	Iscte, LAUREA - (Finland), AUTH - (Greece), UNI EIFFEL - (France), IT-IUL - (Portugal), Clinipower - (Finland), Whymob - (Portugal), MundiConsulting - (Portugal)	2023 - 2026
Decentralize Portugal with blockchain agenda	Researcher	ISTAR-Iscte, BRU-Iscte, CIES-Iscte, CIS-Iscte, VOID - Leader (Portugal), INESC-ID - (Portugal), IST-ID - (Portugal), UM - (Portugal), IPLeiria - (Portugal), BioGHP - (Portugal), INESC TEC - (Portugal), INOV - (Portugal)	2023 - 2025
AI-based mobile applications for public health response	Researcher	ISTAR-Iscte (DLS), IT - (Portugal), AIDFM - (Portugal)	2021 - 2023
Data Science for non-programmers	Researcher	ISTAR-Iscte (SSE)	2019
TrustChain	Principal Researcher	ISTAR-Iscte	2019
Cloud-based Anti Malware Technology for Android App Stores	Local Coordinator	ISTAR-Iscte (SSE), Aptoide - Leader (Portugal)	2013 - 2018
Monitoring the availability and performance of heterogeneous systems and services through a modular and highly distributed architecture over the Internet	Principal Researcher	ADETTI-IUL	2012
AAL4ALL – Ambient Assisted Living for All	Researcher	ISTAR-Iscte (DLS), Fraunhofer - (Portugal)	2013 - 2015
Multimedia Networking	Principal Researcher	ADETTI-IUL	2004 - 2006
Wireless Cameras and Audio-visual Seamless Networking	Principal Researcher	ADETTI-IUL	2004 - 2006
Emerging Networking Experiments and Technologies	Local Coordinator	ADETTI-IUL	2004 - 2006

Multispectral and hyperspectral imagery analysis from acquisition to decision, making and expertise in environment management	Principal Researcher	ADETTI-IUL - Technical Coordinator	2004 - 2005
High-performance CODing, protection and trading of satellite images, using JPEG2000	Principal Researcher	ADETTI-IUL	2003 - 2005
MPEG Open Security for Embedded Systems	Principal Researcher	ADETTI-IUL	2002 - 2004
(JPEG)2K Advanced Networking	Principal Researcher	ADETTI-IUL	2002 - 2004
Platform for real-time Interactive Access to Mega-images	Principal Researcher	ADETTI-IUL	2001 - 2003
Open Components for Controlled Access to Multimedia Material	Principal Researcher	ADETTI-IUL	2000 - 2003
Offer of Content Through Trusted Access Links (ACTS - AC242)	Principal Researcher	ADETTI-IUL	1997 - 1999
Open Kernel for Access to Protected Interoperable interactive services	Principal Researcher	ADETTI-IUL	1995 - 1997

## Academic Management Positions

Coordenador do 3º Ano (2025 - 2026)  
Unit/Area: Bachelor Degree in Digital Technologies and Information Security

Presidente (2025 - 2028)  
Unit/Area: Comissão Científica

Membro (Docente) (2025 - 2028)  
Unit/Area: Comissão Científica

Director (2025 - 2028)  
Unit/Area: Department of Digital Technologies

Director (2025 - 2028)  
Unit/Area: Master Degree in Cybersecurity and Resiliency

Coordenador do 3º Ano (2024 - 2025)  
Unit/Area: Bachelor Degree in Digital Technologies and Information Security

<p>Coordenador do 1º Ano (2024 - 2025) Unit/Area: Bachelor Degree in Digital Technologies and Information Security</p>
<p>Director (2024 - 2025) Unit/Area: Post Graduation Program in Cybersecurity and Resiliency</p>
<p>Director (2023 - 2025) Unit/Area: Bachelor Degree in Digital Technologies and Information Security</p>
<p>Coordenador do 2º Ano (2023 - 2024) Unit/Area: Bachelor Degree in Digital Technologies and Information Security</p>
<p>Membro (Docente) (2023) Unit/Area: Plenário do Conselho Científico</p>
<p>Director (2023) Unit/Area: Bachelor Degree in Digital Technologies and Information Security</p>
<p>Coordenador do 1º Ano (2022 - 2023) Unit/Area: [0384] Digital Technologies and Security</p>
<p>Membro (Docente) (2022 - 2024) Unit/Area: Comissão Científica</p>
<p>Director (2022 - 2023) Unit/Area: [0384] Digital Technologies and Security</p>
<p>Coordenador do 2º Ano (2021 - 2022) Unit/Area: Bachelor Degree in Data Science (PL)</p>
<p>Coordenador do 2º Ano (2021 - 2022) Unit/Area: Bachelor Degree in Data Science</p>
<p>Membro (Docente) (2021 - 2023) Unit/Area: Plenário do Conselho Científico</p>
<p>Membro (Docente) (2020 - 2021) Unit/Area: Plenário do Conselho Científico</p>
<p>Coordenador do 2º Ano (2020 - 2021) Unit/Area: Bachelor Degree in Data Science</p>
<p>Coordenador do 2º Ano (2020 - 2021) Unit/Area: Bachelor Degree in Data Science (PL)</p>
<p>Coordenador do 4º Ano (2019 - 2020) Unit/Area: Bachelor Degree in Computer Science and Business Management</p>
<p>Coordenador do 4º Ano (2019 - 2020) Unit/Area: Bachelor Degree in Computer Science and Business Management (PL)</p>
<p>Coordenador do 4º Ano (2018 - 2019) Unit/Area: Bachelor Degree in Computer Science and Business Management</p>
<p>Coordenador do 4º Ano (2018 - 2019) Unit/Area: Bachelor Degree in Computer Science and Business Management (PL)</p>
<p>Membro (Docente) (2017 - 2019) Unit/Area: Plenário da Comissão Científica</p>
<p>Membro (2017 - 2020) Unit/Area: Comissão Científica</p>
<p>Director (2014 - 2017) Unit/Area: Bachelor Degree in Computer Science and Business Management (PL)</p>

Director (2014 - 2017) Unit/Area: Bachelor Degree in Computer Science and Business Management
Director (2011 - 2014) Unit/Area: Bachelor Degree in Computer Science and Business Management
Coordenador do 4º Ano (2011 - 2014) Unit/Area: Bachelor Degree in Computer Science and Business Management
Membro (Docente) (2010 - 2012) Unit/Area: Plenário do Conselho Científico
Membro (Docente) (2010 - 2016) Unit/Area: Plenário da Comissão Científica
Membro (2010 - 2013) Unit/Area: Comissão Científica

## Awards

ISCTE-IUL Pedagogical Prize, in the Mobile Environments Applications Development (DAAM) Curricular Unit, 2017 (2017)
ISCTE-IUL Pedagogical Prize, in the Digital Enterprise Project (PED) Curricular Unit, 2016 (2016)
ISCTE-IUL Pedagogical Prize, in the Digital Enterprise Project (PED) Curricular Unit, 2014 (2014)
ISCTE-IUL Scientific Prize, assigned to the paper "Serrão, C., Rodriguez, E. & Delgado, J. (2011) Approaching the rights management interoperability problem using intelligent brokerage mechanisms. Computer Communications, 34 (2), 129-139. Doi 10.1016/j.comcom.2010.04.001", 2012 (2012)
Honourable Mention in the 2nd. edition of the "ISCTE-IUL MIT Portugal Innovation and Entrepreneurship Initiative" contest, in the IT & Web category, with the project "Netmust - Networked Music System", 2011 (2011)
Awarded a Marie-Curie grant (Marie-Curie Intra-European Fellowships), under the program "Structuring the European Research Area" - Call identifier: FP6-2005-Mobility-5, Proposal N° 040164- iDRM "Interoperable Rights Management over DRM Platforms", 2006-2007 (12 months duration) (2006)

## Professional Associations

Member of the CT 163 - Information Systems Security (Since 2022)
Member of the CT 208 - Blockchain e Distributed Ledger Technologies (Since 2017)
USENIX (The Advanced Computing Systems Association) campus representative at ISCTE-IUL (Since 2014)
ACM Professional Membership (Since 2012)
AP2SI - Portuguese Association for the Promotion of Information Security (Since 2012)
OWASP - Open Web Applications Security Project (Since 2007)
Member of the CT 120 - Image, Audio and Multimedia Information Coding (Since 2005)

## Organization/Coordination of Events

Type of	Event Title	Organizer	Year
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Organization/Coordination			
Coordination of non-scientific event	Holochain - Crypto Currencies, Blockchain, Decentralised Apps, Holochain & Holo	Iscte e ACM Student branch	2020
Member of scientific event committee	19th Conference of the Portuguese Association for Information Systems	APSI	2019
Member of scientific event committee	International Conference on the Quality of Information and Communications Technology (QUATIC 2019)	QUATIC	2019
Member of scientific event committee	INFORUM 2019	Universidade do Minho	2019
Member of scientific event committee	9th International Conference on Cloud Computing and Services Science, CLOSER 2019	INSTICC	2019
Member of scientific event committee	18th Conference of the Portuguese Association for Information Systems (CAPSI 2018)	APSI	2018
Member of scientific event committee	INFORUM 2018	Universidade de Coimbra	2018
Member of scientific event committee	7th International Conference on Theory and Practice in Modern Computing	IADIS	2018
Coordination of scientific event (with scientific committee) at ISCTE-IUL	Low Code Software Development Summer School	ISCTE-IUL/ISTAR-IUL	2018
Member of scientific event committee	CISTI 2018 - 13th Iberian Conference on Information Systems and Technologies	AISTI	2018
Member of scientific event committee	8th International Conference on Cloud Computing and Services Science, CLOSER 2018	INSTICC	2018
Member of scientific event committee	Inforum 2017	Universidade de Aveiro	2017
Member of scientific event committee	6th International Conference on Theory and Practice in Modern Computing	IADIS	2017
Member of scientific event committee	17.ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI 2017)	APSI	2017
Member of scientific event committee	CISTI'2017 - 12ª Conferência Ibérica de Sistemas e Tecnologias de Informação	AISTI	2017
Member of scientific event committee	7th International Conference on Cloud Computing and Services Science, CLOSER 2017	INSTICC	2017
Member of scientific event committee	Inforum 2016	IST	2016
Member of scientific event committee	16ª Conferência da Associação Portuguesa de Sistemas de Informação - CAPSI 2016	APSI	2016
Member of scientific event committee	CISTI'2016 - 11th Iberian Conference on Information Systems and Technologies	AISTI	2016
Member of scientific event committee	6th International Conference on Cloud Computing and Services Science, CLOSER 2016	INSTICC	2016

Member of scientific event's organizing committee	15º Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI 2015)	APSI	2015
Member of scientific event committee	Inforum 2015	Universidade da Beira Interior	2015
Member of scientific event committee	4th International Conference on Theory and Practice in Modern Computing	IADIS	2015
Member of scientific event committee	5th International Conference on Cloud Computing and Services Science, CLOSER 2015	INSTICC	2015
Member of scientific event committee	12ª Conferência Ibero Americana WWW/INTERNET 2014	IADIS	2014
Member of scientific event committee	14.a Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI 2014)	APSI	2014
Member of scientific event committee	Inforum 2014	Universidade do Porto	2014
Member of scientific event committee	16th International Conference on Enterprise Information Systems (ICEIS)	INSTICC	2014
Member of scientific event committee	4th International Conference on Cloud Computing and Services Science, CLOSER 2014,	INSTICC	2014
Member of scientific event committee	3rd International Conference on Cloud Computing and Services Science (CLOSER 2013)		2013
Member of scientific event committee	IADIS Theory and Practice in Modern Computing 2013		2013
Member of scientific event committee	The 11th IASTED International Conference on Parallel and Distributed Computing and Networks (PDCN 20		2013
Member of scientific event committee	INFORUM 2013		2013
Member of scientific event committee	Special Session on Information Security Intelligence for Business Decision Makers - ISI?BDM 2013		2013
Member of scientific event committee	Bsides 2013		2013
Member of scientific event committee	13ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI 2013)		2013
Member of scientific event committee	Conferência IADIS Ibero Americana WWW/INTERNET 2012 (CIAWI 2012)		2012
Member of scientific event committee	4º Simpósio de Informática 2012 (INFORUM 2012)		2012
Member of scientific event committee	OWASP AppSec Research Europe 2012 (APPSECEU 2012)		2012
Member of scientific event committee	2nd International Conference on Cloud Computing and Services Science (CLOSER 2012)		2012
Member of scientific event's organizing committee	11ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI 2011)		2011

Member of scientific event's organizing committee	1st. International Conference on Cloud Computing and Services Science (CLOSER 2011)		2011
Member of scientific event's organizing committee	IADIS International Conference on Telecommunications, Networks and Systems 2011 (TNS 2011)		2011
Member of scientific event's organizing committee	INFORUM 2011 - SEGURANÇA DE SISTEMAS DE COMPUTADORES E COMUNICAÇÕES		2011
Member of scientific event committee	Parallel and Distributed Computing and Systems PDCS 2010	IASTED	2010
Member of scientific event committee	IADIS International Conference Telecommunications, Networks and Systems 2010	IADIS	2010
Coordination of scientific event (with scientific committee) outside of ISCTE-IUL	IBWAS09 - Iberic Web Applications Security Conference 2009, held at the Escuela Universitaria de Ingeniería Técnica de Telecomunicación, Universidad Politécnica de Madrid, Madrid (Spain), 10th - 11th December, 2009.	OWASP	2009
Member of scientific event committee	IADIS International Conference Telecommunications, Networks and Systems 2009	IADIS	2009
Member of scientific event committee	ODRL International Workshop 2004	ODRL	2004

## Diffusion Activities

Activity Type	Event Title	Activity Description	Year
Member of organizing committee of knowledge diffusion event	Cybertalks @ Iscte-Sintra - Cyber Security - The real life version	Cybertalk held at Iscte-Sintra on the topic of Cybersecurity.	2022
Talk/Conference in public diffusion event	Cybersecurity on Mobile Apps	Webinar with an invited talk on the topic of security in mobile applications.	2022
Member of organizing committee of knowledge diffusion event	Cybertalks @ Iscte-Sintra - Cibersegurança - understand the incidents	Cybertalk held at Iscte-Sintra on the topic of Cybersecurity.	2022
Talk/Conference in public diffusion event	Log4Shell - A vulnerability that shocked the World	Dissemination activity organised within ISTAR to disseminate information on a vulnerability affecting the security of multiple information systems.	2022
Talk/Conference in public diffusion event	An overview of ISO/TC 307 - Blockchain and distributed ledger technologies	Invited talk to the 2nd JPEG Workshop on Media Blockchain, integrated in the 82nd ISO/IEC JTC1/SC29/WG1 (JPEG) Meeting, held in IST, Lisbon	2019
Talk/Conference in public diffusion event	Mobile Applications - Development Methodologies and Technologies	Invited talk for the Winter School "O Lugar da Cidade" organised by ISCTE-IUL	2019

Talk/Conference in public diffusion event	Software development - a risk-prone activity -	Invited talk in III Seminário de Cibersegurança e Cibercrime at Instituto Politécnico de Viana do Castelo (ESTG)	2018
Coordination of knowledge diffusion event	Os desafios da General Data Protection Regulation (GDPR)	Dissemination event about the GDPR challenges.	2017
Talk/Conference in public diffusion event	Prevent ransomware.	Dissemination event to prevent against ransomware.	2017
Talk/Conference in public diffusion event	New Technologies, New Challenges: Security and Privacy	Presentation in ISCTE-IUL Research Week 2016	2016
Talk/Conference in public diffusion event	OWASP Mobile Top 10 - [Major risks on the mobile applications security development]	Presentation at Secthon'2015 conducted at ISCTE-IUL	2015
Coordination of knowledge diffusion event	S3cth0n - Mobile Devices Security Hackathon	Hackathon directed to university students, devoted to mobile devices security, together with Multicert, at ISCTE-IUL, 30-31 October, 2015	2015
Talk/Conference in public diffusion event	Let's take a selfie? [or... how our privacy died... and no one warned us]	Open class at Instituto Politécnico de Setúbal (ESCE)	2015
Talk/Conference in public diffusion event	OWASP and the Web Application Security	Invited talk in workshop at Instituto Politécnico de Viana do Castelo (ESTG)	2014
Coordination of knowledge diffusion event	OWASP European Tour 2013	Coordination of dissemination event in the information security area, with several national and international speakers, 21st June 2013, ISCTE-IUL.	2013
Talk/Conference in public diffusion event	The Ten Most Critical Web Application Security Risks	Invited talk on a event organised by Instituto Politécnico de Viana do Castelo (ESTG)	2013
Talk/Conference in public diffusion event	Intellectual property challenges on digital educational content	Invited talk at IEEE EdSoc Invited Talks, held on ISCTE-IUL, Lisboa.	2013
Talk/Conference in public diffusion event	New directions for Rights Management Systems	Invited talk at the 1st SUMmer Workshop Microsoft - ISCTE-IUL on Applied Computing, Microsoft, Portugal.	2013
Talk/Conference in public diffusion event	OWASP and the secure development of web applications	Invited talk for ISELTech'12 at the ISEL campus.	2012
Talk/Conference in public diffusion event	Basic online security principles	Invited talk by Siemens SA. for information security awareness event.	2012
Talk/Conference in public diffusion event	Privacy and Security on Social Networks	Invited talk of InfosecDay2012, organised by Instituto Politécnico de Castelo Branco (EST)	2012
Talk/Conference in public diffusion event	Portuguese Web Application Security assessment: are we safe out there?	Invited talk at Just4Meeting (Information Security Meetings)	2011



Talk/Conference in public diffusion event	FISTA 2011	Speaker, talk "Segurança * Software * Universidade * Empresa", ISCTE-IUL, 3-4 May 2011.	2011
Talk/Conference in public diffusion event	To DRM or not to DRM?	Open class at Instituto Politécnico de Setúbal (ESCE)	2011
Talk/Conference in public diffusion event	Privacy and Security on Social Networks	Open class at Instituto Politécnico de Setúbal (ESCE)	2010
Member of organizing committee of knowledge diffusion event	2nd OWASP Ibero-American Web Application Security Conference - IBWAS 2010	IBWAS2010 Conference organization, ISCTE-IUL, 16-17 December 2010.	2010
Coordination of knowledge diffusion event	Samy Kamkar @ ISCTE-IUL, "How I met your girlfriend"	Information security event, with Samy Kamkar as invited speaker, giving the "How I met your girlfriend" talk, ISCTE-IUL, Lisboa, Outubro 2010.	2010
Talk/Conference in public diffusion event	cTIC 2009 IX Conferência sobre Tecnologias de Informação e Comunicação	invited talk: "Segurança em Aplicações Web-based e em Rich Internet Applications", Viseu 2009.	2009
Talk/Conference in public diffusion event	Web 2.0 - Software as a Service	Open class at Instituto Politécnico de Setúbal (ESCE)	2008
Coordination of knowledge diffusion event	Web-Services - The new web	Open class at Instituto Politécnico de Setúbal (ESCE)	2006
Coordination of knowledge diffusion event	Digital Signature - Technical Aspects and Practice	Organization of a dissemination event about the usage of digital signatures and digital certificates at ISCTE-IUL.	2005
Talk/Conference in public diffusion event	Security in the development of Web-based applications and Web-Services	Invited seminar of the Mestrado em Gestão de Sistemas de Informação from ISCTE-IUL	2004
Talk/Conference in public diffusion event	Web Services - Microsoft .Net vs Sun J2EE	Aula aberta no Instituto Politécnico de Setúbal (ESCE)	2004
Talk/Conference in public diffusion event	DRM solutions (Digital Rights Management) - The Intellectual Property Management in the content market	Open class at Instituto Politécnico de Setúbal (ESCE)	2002
Talk/Conference in public diffusion event	e-Business - Integrate, Extend and Interconnect	Open class at Instituto Politécnico de Setúbal (ESCE)	2001
Talk/Conference in public diffusion event	Emergent IT for e-Business	Open class Instituto Politécnico de Setúbal - ESCE	2001
Talk/Conference in public diffusion event	Electronic Commerce - General Aspects	Participation on a E-Commerce seminar at Instituto Politécnico de Castelo Branco	2000

## Products

Product Type	Product Title	Detailed Description	Year
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Prototype	AIM-Health Backend API	AIM-Health project distributed system backend API.	2022
Digital Materials or Audiovisual Resources	InfosecLabs	Cybersecurity Labs	2022
Software (Open Source)	JavaCrypto	A set of examples on how to use cryptographic libraries in Java.	2022
Software (Open Source)	PyCrypto	A set of examples on how to use cryptography with Python.	2022
Software (Open Source)	aptoideAPKdownloader	Tool that allows downloading of Android Applications from the Aptoide App Store.	2019
Software (Open Source)	PHP Programming book source-code examples	Source-code of the PHP samples from the PHP Programming book.	2015
Prototype	OpenSDRM - Open and Secure Digital Rights Management	A prototype that demonstrates a distributed platform to control the access to digital media assets.	2013