



**CURRICULUM VITAE (CVA)**

**IMPORTANT – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.**

**Part A. PERSONAL INFORMATION**

<b>CV date</b>	03/10/2022
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<b>First name</b>	Fernando		
<b>Family name</b>	Pereñíguez García		
<b>Gender (*)</b>	Male	<b>Birth date (dd/mm/yyyy)</b>	23/08/1984
<b>Social Security, Passport, ID number</b>	48507523V		
<b>e-mail</b>	fernando.pereniguez@ cud.ucpt.es	URL Web	
<b>Open Research and Contributor ID (ORCID)(*)</b>	0000-0003-4153-022X		

(\*) Mandatory

**A.1. Current position**

<b>Position</b>	Associate Professor		
<b>Initial date</b>	01/04/2017		
<b>Institution</b>	University Defense Center - Spanish Air Force Academy		
<b>Departament/Center</b>	Department of Sciences and Informatics		
<b>Country</b>	Spain	<b>Teleph. number</b>	968 189 946
<b>Key words</b>	Security, privacy, authentication, network access control, key management and distribution, federation, intelligent transportation systems, software-defined network.		

**A.2. Previous positions (research activity interruptions, art. 14.2.b)**

<b>Period</b>	<b>Position/Institution/Country/Interruption cause</b>
2014-2016	Assistant professor / Catholic University of Murcia / Spain
2011-2013	Senior research engineer / University of Murcia / Spain
2007-2011	PhD student / University of Murcia / Spain

**A.3. Education**

<b>PhD, Licensed, Graduate</b>	<b>University/Country</b>	<b>Year</b>
PhD on Advanced Information and Telematic Technologies	University of Murcia	2011
MSc on Advanced Information and Telematic Technologies	University of Murcia	2008
BSc on Computer Science	University of Murcia	2007

**Part B. CV SUMMARY (max. 5000 characters, including spaces)**

Fernando Pereniguez-Garcia is an Associate Professor since 2017 in the Department of Engineering and Applied Technologies at the University Center of Defence (CUD), San Javier Air Force Base, Spain. He has co-authored over 40 scientific articles in top ranked journals, conference proceedings and books. This research activity has been supported by his



participation in research projects funded by both Spanish government (8) and the European Union (4).

His research experience is related to the provision of network access authentication, key distribution and privacy in wireless mobile networks. His activity has resulted in notable contributions such as the definition of efficient network access control mechanisms or generic authentication solutions for federated cloud-based application services. The expertise acquired in these areas has been applied to the provision of communications security in Intelligent Transportation Systems through his participation in three EU-funded projects: IPv6 ITS Station Stack for Cooperative Systems FOTs (ITSSv6), Interoperable Trust Assurance Infrastructure (INTER-TRUST) and European Field Operational Test on Safe, Intelligent and Sustainable Road Operation (FOTsis). Additionally, the results in this field have been transferred to the industry by participating in the Internet Engineering Task Force (IETF) standardization forum, resulting four Internet-Drafts and one IETF RFC (RFC 7499).

Dr. Pereniguez-Garcia is currently applying his research capabilities to the provision of network security services within the Software Defined Networks (SDNs) ecosystem. More precisely, he is actively working towards the adaptation of existing well-known network-level security mechanisms to these new challenging network scenarios with the aim of achieving an autonomous and automated management of secure communications. Again, the scientific contributions achieved in this area have been transferred to the industry thanks to the development of an international standard specification (RFC 9061) published by the IETF standardization body.

Dr. Pereniguez-Garcia has served on the TPCs of prestigious international conferences: IEEE/IFIP International Conference on Embedded and Ubiquitous Computing (EUC), IEEE Symposium on Industrial Electronics Applications (ISCAIE), IEEE Symposium on Wireless Technology & Applications (IWSTA), and others. He also regularly serves as reviewer for top rated journals including IEEE Intelligent Transportation Systems Magazine, Transactions on Emerging Telecommunications Technologies or Journal of Information Security and Applications. He has also acted as guest editor for the Elsevier Computer Standards & Interfaces journal (special issue: Secure Mobility in Future Communication Systems under Standardization).

## **Part C. RELEVANT MERITS** (sorted by typology)

### **C.1. Publications** (see instructions)

López-Millán G., Marín-López R., Pereñíguez-García F., Canovas O., Parra Espín J.A. (To appear). Analysis and practical validation of a standard SDN-based framework for IPsec management. *Computer Standards and Interfaces*, 83, art. no. 103665. DOI: 10.1016/j.csi.2022.103665

Pastor-Galindo, J., López-Millán, Gabriel, Marín-López, R., Pereñíguez-García, F., Cánovas-Reverte, O. (2022). A framework for dynamic configuration of TLS connections based on standards. *Journal of Network and Systems Management*. 30, 24. DOI: 10.1007/s10922-021-09640-6.

Lopez-Millan, G., Marin-Lopez, R. & Pereniguez-Garcia, F. (2019). Towards a standard SDN-based IPsec management framework. *Computer Standards & Interfaces*, 66(1): 1-15. DOI: 10.1016/j.csi.2019.103357

Cecilia, J.M., Santa, J., Pereñíguez, F., et al. (2018). High-Throughput Infrastructure for Advanced ITS Services: A Case Study on Air Pollution Monitoring. *IEEE Transactions on Intelligent Transportation Systems*, 19(7): 2246-2257. DOI: 10.1109/TITS.2018.2816741

### **C.2. Congress**

### **C.3. Research projects**



Desarrollo Holístico de Aplicaciones Emergentes en Sistema Heterogéneos (TIN2016-78799-P). Ministerio de Economía y Competitividad. IP: José María Cecilia Canales (Universidad Católica de Murcia), Andrés Muñoz Ortega (Universidad Católica de Murcia). 30/12/2016 – 29/12/2019. 69.300,00 €.

Hacia la continuidad de servicios emergentes a partir de objetivos inteligentes basados en IoT (TIN2017-86885-R). Ministerio de Economía, Industria y Competitividad. IP: Antonio Fernando Gomez Skarmeta (Universidad de Murcia). 01/01/2018 – 31/12/2020. 208.725,00 €

Movilidad Ecoeficiente y Conectada para Ciudadanos (PGE-MOVES-SING-2019-000104). Instituto para la Diversificación y Ahorro de la Energía (IDAE). Fondo Europeo de Desarrollo Regional (FEDER). IP: José Santa Lozano (Universidad Politécnica de Cartagena). 01/09/2020 – 01/09/2022. 68.790,22 €

Adaptación de Recursos de Cómputo y Red desde la Nube al Extremo: Planificación y acceso coordinado óptimo (PID2020-112675RB-C41). Agencia Estatal de Investigación (AEI). IP: Esteban Egea López, José Santa Lozano (Universidad Politécnica de Cartagena). 01/09/2021-31/08/2024. 165.044,00 €

#### **C.4. Contracts, technological or transfer merits**

Marin-Lopez, R., Lopez-Millan, G., & Pereniguez-Garcia, F. (2021, July). A YANG Data Model for IPsec Flow Protection Based on Software-Defined Networking (SDN). Internet Engineering Task Force (IETF) Request for Comments. doi:10.17487/RFC9061