

CV Date	10/09/2024
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Part A. PERSONAL INFORMATION

First Name	Nina		
Family Name	Skorin-Kapov		
Sex	Female	Date of Birth	14/01/1981
ID number Social Security, Passport	Y1661283F		
URL Web	https://investigacion.cud.upct.es/investigadores/dra-nina-skorin-kapov/		
Email Address	nina.skorinkapov@ cud.upct.es		
Open Researcher and Contributor ID (ORCID)	0000-0002-2537-5867		

A.1. Current position

Job Title	Profesor Permanente Laboral (conversión de Profesor Contratado Doctor)		
Starting date	2016		
Institution	Centro Universitario de la Defensa (CUD) de San Javier		
Department / Centre	Departamento de Ingeniería y Técnicas Aplicadas / Centro Universitario de la Defensa (CUD) de San Javier		
Country		Phone Number	(+34) 968188778
Keywords			

A.2. Previous positions (Research Career breaks included)

Period	Job Title / Name of Employer / Country
2014 - 2016	Profesor Ayudante Doctor / Centro Universitario de la Defensa (CUD) de San Javier
2013 - 2014	PCUDT1 (Asimilado LOU Profesor Contratado Doctor) / Centro Universitario de la Defensa (CUD) de San Javier
2012 - 2013	Associate Professor (Equiv. esp. Profesor Titular de Universidad) / Faculty of Electrical Engineering (FER), University of Zagreb, Croatia
2008 - 2012	Assistant Professor (Equiv. esp. Profesor Contratado Doctor) / Faculty of Electrical Engineering (FER), University of Zagreb, Croatia
2006 - 2008	Postdoctoral Teaching and Research Assistant (Equiv. esp. Ayudante Doctor) / Faculty of Electrical Engineering (FER), University of Zagreb, Croatia
2003 - 2006	Teaching and Research Assistant (Equiv. esp. Ayudante) / Faculty of Electrical Engineering (FER), University of Zagreb, Croatia

A.3. Education

Degree/Master/PhD	University / Country	Year
Doctora en Ciencias	Facultad de Electrotecnia e Informática, Universidad de Zagreb, Croacia (Homologado por la Universidad Politécnica de Cartagena, 28/07/2011)	2006
Ingeniera Licenciada en Electrotecnia, esp. Telecomunicaciones e Informática	Facultad de Electrotecnia e Informática, Universidad de Zagreb, Croacia	2003

Part B. CV SUMMARY

Nina received her Dipl.-Ing. and Ph.D. degrees from the University of Zagreb, Zagreb, Croatia, in 2003 and 2006, respectively. From 2003-2013, she worked at the Department of Telecommunications at the Faculty of Electrical Engineering and Computing at the University of Zagreb, as a Research Assistant (2003-8), as Assistant Professor (2008-2012), and as Associate Professor (equiv. TU) (2012-2013). During this time she also completed a one year PostDoctoral Research Fellowship at Télécom ParisTech - École Nationale Supérieure des Télécommunications, Paris, France in academic year 2006/7, and several 1-3 month research stays at The Technical University of Cartagena (UPCT), Spain. In 2013, she joined the University Center of Defense (Centro Universitario de la Defensa de San Javier, CUD), San Javier Air Force Base, first as a PCUD1 Professor (PCD equivalent, 2013-14), Assistant Professor (PAD, 2014-16) and Associate Professor (PCD with recent conversion to PPL, 2016-present). She is accredited by ANECA for Titular de Universidad (07/16/2012), and was Affiliate Associate Professor at FER, University of Zagreb (2018-2023). She has 3 sexenios accredited by CNEAI and 4 quinquenios. Her general research interests include optimization and planning in telecommunications networks, in particular in wide-area optical networks and metaheuristic algorithms.

Nina Skorin-Kapov is Principal Investigator of the Computational and Telecommunications Engineering Group (GICOT, <https://investigacion.cud.upct.es/grupo-gicot/>) research group at CUD and an external member of the Telecommunications Network Engineering Group (GIRTEL) research group at UPCT. She has published >65 papers in international journals, conferences, and book chapters, including 25 papers in JCR journals, and has participated in several international (H2020 Pharaon, Erasmus+ IN4WOOD-Industry 4.0, FP7 BONE, FP7 ePhotone/One+, COST Actions 15127, 291, and IC0806) and national (ONOFRE-1/2/3) research projects. She was a Management Committee Member in the COST Actions RECODIS and IntelliCIS and Principal Investigator of projects SAFE funded by Unity through Knowledge Fund (UKF), Croatia, and French-Croatian Cogito project HONeDT. In 2008, she received the Croatian Annual National Award for Science (for junior researchers) in the field of technical sciences and the Vera Johanides award from the Croatian Academy of Engineering (HATZ) for year 2011. She has been featured in various media for research on optical network planning and security, including Forbes Magazine, Croatian Ed. (2011) and interview on Good Morning Croatia (2008). In 2023, she received the Cross of Military Merit with White Decoration.

Nina Skorin-Kapov served as Associate Editor of the OSA/IEEE Journal of Optical Communications and Networking (2018-2023, Q1 journal) and on the editorial board of CIT Journal of Computing and Information Technology (2011-2015). She has served on Technical Program Committees of numerous international conferences, including ONDM, Networks, IEEE Globecom, IEEE ICC, ACP and IEEE HPSR, and was TCP co-chair of international conference ONDM 2016. She has reviewed project proposals for the Croatian science Foundation and the Engineering Research Council of Canada, served on the Advisory Board of the Institute of Telemedicine of the Republic of Croatia from 2009-2012, and served as project reviewer for Airbus in 2021.

Citations: 1363 (529 average in last 5 years; source: Google scholar); h-index: 18; PhD supervised thesis: 1

Her full CV can be found at: https://investigacion.cud.upct.es/wp-content/uploads/2024/01/NinaSkorinKapov_CV_-2024.pdf

Part C. RELEVANT ACCOMPLISHMENTS

C.1. Most important publications in national or international peer-reviewed journals, books and conferences

AC: corresponding author. (n° x / n° y): position / total authors. If applicable, indicate the number of citations

- 1 **Scientific paper.** Nina Skorin-Kapov; Marija Furdek; Szilard Zsigmond; Lena Wosinska. 2016. Physical-Layer Security in Evolving Optical Networks. IEEE Communications Magazine. 54, pp.110-117.
- 2 **Scientific paper.** Matko Šilić; Mirko Sužnjević; Lea Skorin-Kapov; Nina Skorin-Kapov; Marcelo Izquierdo Lorenzana. 2024. The Impact of Video Encoding Parameters on QoE of Simulated FPV Drone Control. Multimedia Tools and Applications. ISSN 1380-7501.
- 3 **Scientific paper.** Nina Skorin-Kapov; Luka Mesaric; Fernando Pereñíguez García; Lea Skorin-Kapov. 2024. Scheduling aerial resource operations for the extinction of large-scale wildfires. OMEGA-INTERNATIONAL JOURNAL OF MANAGEMENT SCIENCE. 122. ISSN 0305-0483.
- 4 **Scientific paper.** Pablo Pavon Mariño; Nina Skorin-Kapov; Antonio Napoli. 2023. Tree-Determination, Routing and Spectrum Assignment (TRSA) using Point-to-Multipoint Coherent Optics. IEEE/OPTICA Journal of Optical Communications and Networking. 15-7, pp.C29-C40. ISSN 1943-0620.
- 5 **Scientific paper.** Pablo Pavon Mariño; Nina Skorin-Kapov; Maria Victoria Bueno Delgado; Johan Back; Antonio Napoli. 2022. On the benefits of point-to-multipoint coherent optics for multilayer capacity planning in ring networks with varying traffic profiles. IEEE/OPTICA Journal of Optical Communications and Networking. 14-7, pp.B30-B44. ISSN 1943-0620.
- 6 **Scientific paper.** Ricardo Santos; Nina Skorin-Kapov; Hakim Ghazzai; Andreas Kassler; Gia Khanh Tran. 2022. Towards the optimal orchestration of steerable mmWave backhaul reconfiguration. Computer Networks. 205. ISSN 1389-1286.
- 7 **Scientific paper.** Nina Skorin-Kapov; Ricardo Santos; Hakim Ghazzai; Andreas Kassler. 2021. A Randomized Greedy Heuristic for Steerable Wireless Backhaul Reconfiguration. Electronics. 10-4, pp.1-18.
- 8 **Scientific paper.** Javier Moreno Muro; Nina Skorin-Kapov; Pablo Pavon Mariño. 2019. Revisiting Core Traffic Growth in the Presence of Expanding CDNs. Computer Networks. 154, pp.1-11. ISSN 1389-1286.
- 9 **Scientific paper.** Jose L. Marzo; Sergio G. Cosgaya; Nina Skorin-Kapov; Caterina Scoglio; Heman Shakeri. 2019. A study of the robustness of optical networks under massive failures. Optical Switching and Networking. 31, pp.1-7. ISSN 1573-4277.
- 10 **Scientific paper.** Ajmal Muhammad; Nina Skorin-Kapov; Marija Furdek. 2017. Manycast, Anycast and Replica Placement (MARP) in Optical Inter-Datacenter Networks. IEEE/OSA Journal of Optical Communications and Networking. 9-12, pp.1161-1171. ISSN 1943-0620.

C.3. Research projects and contracts

- 1 **Project.** Seguridad y fiabilidad de las redes de comunicación multicapa (SEFRECOM). CENTRO UNIVERSITARIO DE LA DEFENSA, R-28 /24. Nina Skorin-Kapov. 29/05/2024-28/05/2026. 10.600 €. Principal investigator.
- 2 **Project.** ONOFRE-3 On-Demand Provisioning of the Network and Computing Resources from the Cloud to the Edge PID2020-112675RB-C41. Agencia Estatal de Investigación. Esteban Egea López. (Technical University of Cartagena (Spain), University of Valladolid (Spain), i2CAT Foundation (Spain) and University of Murcia (Spain)). 09/2021-08/2024. 165.044 €. Team member.
- 3 **Project.** Pilots for Healthy and Active Ageing, H2020-SC1-FA-DTS-2018-2020 – 857188. GA 857188. EUROPEAN COMMISSION.. MARÍA VICTORIA BUENO DELGADO. 01/12/2019-30/11/2023.
- 4 **Project.** MECANO – Eco-Efficient Mobility for Connected Citizens PGE-MOVES-SING-2019-000104. GA 857188. EUROPEAN COMMISSION. H2020-SC1-FA-DTS-2018-2020. José Santa Lozano. 09/2020-09/2022. 68.790 €.

- 5 Project.** Optical Networks Convergence In The Future Internet -2 (ONOFRE-2). TEC2017-84423-C3-2-P. Agencia Estatal de Investigación. Ramón Durán. (Universidad Politécnica de Cartagena (Spain), Universidad de Valladolid (Spain), Fundación i2CAT (Spain)). 01/01/2018-21/12/2021. 77.440 €.
- 6 Project.** COST Action CA15127: Resilient communication services protecting end-user applications from disaster-based failures (RECODIS). European Commission, Cost Action. Jacek Rak. 01/03/2016-29/02/2020. 591.335 €. Management Committee.
- 7 Project.** IN4WOOD-Industry 4.0 for wood and furniture manufacturers, Ref: 575853-EPP-1-2016-1-ES-EPPKA2-SSA. UE, EC Grant, Erasmus+. CETEM. 10/2016-10/2019. 90.882 €.
- 8 Project.** Towards Flexible and energy-efficient datacenter networks - Frame Project, Swedish Research Council, Grant no. E0623001. Lena Wosinska. (KTH Royal Institute of Technology, Linköping University, Chalmers University of Technology). 01/01/2015-31/12/2018. 958.959 €.
- 9 Project.** Optical Networks Convergence in the Future Internet (ONOFRE). Plan Nacional TEC2014-53071-C3-1-P. Pablo Pavon Mariño. (Universidad Politécnica de Cartagena, Universidad de Valladolid, Fundación i2CAT). 04/2015-04/2018. 24.700 €.
- 10 Project.** Security in All-Optical Networks - Swedish Vinnova Project, Ref. 2010-00682. Lena Wosinska. (KTH, Linköping University, Stockholm School of Economics, Santa Anna IT Research Institute, NetInsight). 15/10/2010-31/12/2013. 1.361.240 €.