

Date of the CVA

18/01/2021

Section A. PERSONAL DATA

Name and Surname	German Lenin Dugarte Peña		
DNI/NIE/Passport		Age	
Researcher's identification number	Researcher ID	N-7831-2016	
	Scopus Author ID	57191275610	
	ORCID	0000-0001-9760-7084	

* Obligatorio

A.1. Current professional situation

Institution	Universidad Carlos III de Madrid		
Dpt. / Centre	INFORMATICA / ESCUELA POLITECNICA SUPERIOR		
Address			
Phone		Email	gldugartep@gmail.com
Professional category	AYUDANTE ESPECIFICO UC3M	Start date	2019
Keywords	Systems interconnection; Software; Software architectures; Complex systems; System simulations; Systems based on agents		

A.2. Academic education (Degrees, institutions, dates)

Bachelor/Master/PhD	University	Year
Doctorado en Ciencia y Tecnología Informática	Universidad Carlos III de Madrid	2019
Máster en Ciencia y Tecnología Informática por la Universidad Carlos III de Madrid	Universidad Carlos III de Madrid	2015
Grado en Ingeniería de Sistemas	Universidad de Los Andes (Venezuela)	2012

A.3. General quality indicators of scientific production

Publications Journals (Q1):2

Publications (Q3):4

Book Chapters: 1

Publications in Conferences: 7

WOS. Number of citations: 7 excluding self references (December 2020)

WOS. H-Index: 2 (December 2020)

WOS. Average number of citations: 1,17 (December 2020)

Scopus. Number of citations 9 (December 2020)

Scopus. H-Index: 2 (December 2020)

Google Scholar. Citations. 40 (December 2020)

Google Scholar. Citations From 2015: 40 (December 2020)

Google Scholar: H-Index: 4 (December 2020)

Section B. SUMMARY OF THE CURRICULUM

German Lenin Dugarte Peña holds a Systems Engineering degree from the Universidad de Los Andes of Venezuela (ULA), a Master's degree in Computer Science and Technology from the Universidad Carlos III de Madrid (UC3M), and a Ph.D. in Computer Science and Technology (September 2019) also from the Universidad Carlos III de Madrid.

He currently works as a full-time Assistant Professor (Ayudante Específico) at Universidad Carlos III de Madrid, where in addition to being in charge of research tasks, he teaches in the Department of Computer Science and Engineering, specifically in the areas of Software Engineering, Digital Governance, Agile Processes and Fundamentals of Software Production.

His research interests include: Software Engineering, Software Economics, Organizational Strategy, Knowledge Management, Systemic Thinking, System Modeling and Simulation.

He has taught the following subjects:

- Introduction to Systems Engineering, Systems Engineering Program, Universidad de Los Andes de Venezuela,
- Systems Dynamics, Mechanical Engineering Program, Instituto Tecnológico de Aeronáutica, Brazil
- Course on Simulation Approaches applied to Software Engineering, Universidad de Ibagué, Colombia.
- Principles of Software Development, Computer Engineering Program, Universidad Carlos III de Madrid, Spain.
- Computer Programming, Degree in Statistics and Business, Universidad Carlos III de Madrid, Spain.
- Software Development Project Management, Computer Engineering Degree, Carlos III University of Madrid, Spain.
- Software Production Fundamentals for Digital Business, Degree in Business and Technology, Carlos III University of Madrid, Spain.
- Final Master Thesis - Master Universitario en Sistemas y Tecnologías de la Información para la Administración del Estado, Universidad Internacional Menéndez Pelayo / Instituto Nacional de la Administración Pública, Spain.

German Lenin Dugarte Peña is a member of the research group "Knowledge Reusing", officially recognized by the Community of Madrid. He is certified as a Lean IT professional, he is a member of the Latin American School of Systemic Thinking and Design (ELAPDIS) and the Systems Dynamics Society (SDS).

Regarding official accreditations, Germán has obtained the accreditation by the "Agencia Nacional de Evaluación de la Calidad y Acreditación (ANECA)" as "PROFESOR AYUDANTE DOCTOR".

Regarding International Research Stays, Germán has completed two doctoral stays as Visitor Scholar abroad:

- From September 2017 to December 2011. Dynamic Decision Making Lab (DDMLab), Carnegie Mellon University, Pittsburgh, Pennsylvania, USA.
- From May 2017 to August 2019. Dynamic Decision Making Lab (DDMLab), Carnegie Mellon University Pittsburgh, Pennsylvania, USA.

Section C. MOST RELEVANT MERITS (ordered by typology)

C.1. Publications

AC: Autor de correspondencia; (nº x / nº y): posición firma solicitante / total autores

- 1 Scientific paper.** Sanchez-Segura Maria-Isabel; DUGARTE PEÑA, GERMÁN LENIN; AMESCUA, A. D.; MEDINA DOMÍNGUEZ, FUENSANTA. (2/4). 2021. Exploring how the intangible side of an organization impacts its business model KYBERNETES. ISSN 0368-492X.
- 2 Scientific paper.** Sanchez-Segura Maria-Isabel; MEDINA DOMÍNGUEZ, FUENSANTA; AMESCUA, A. D.; DUGARTE PEÑA, GERMÁN LENIN. (4/4). 2020. Knowledge governance maturity assessment can help software engineers during the design of business digitalization projects Journal of Software-Evolution and Process. pp.1-25. ISSN 2047-7473.

- 3 **Scientific paper.** DUGARTE PEÑA, GERMÁN LENIN; Sanchez-Segura Maria-Isabel; MEDINA DOMÍNGUEZ, FUENSANTA; AMESCUA, A. D.(1/4). 2020. Simulation of the software development process: an approximation using System Dynamics and the Larman Method *Innovación y Software*. 1/1, pp.39-57. ISSN 2708-0927.
- 4 **Scientific paper.** CLEOTILDE GONZALEZ; Sanchez-Segura Maria-Isabel; DUGARTE PEÑA, GERMÁN LENIN; MEDINA DOMÍNGUEZ, FUENSANTA. (3/4). 2018. Valence Matters in Judgments of Stock Accumulation in Blood Glucose Control and Other Global Problems *Journal of Dynamic Decision Making*. 4/3, pp.1-18. ISSN 2365-8037.
- 5 **Scientific paper.** Sanchez-Segura Maria-Isabel; MIRSAD HADZIKADIC; DUGARTE PEÑA, GERMÁN LENIN; MEDINA DOMÍNGUEZ, FUENSANTA. (3/4). 2018. Team Formation Using a Systems Thinking Approach *SYSTEMS RESEARCH AND BEHAVIORAL SCIENCE*. 35/4, pp.369-385. ISSN 1092-7026.
- 6 **Scientific paper.** Sanchez-Segura Maria-Isabel; DUGARTE PEÑA, GERMÁN LENIN; MEDINA DOMÍNGUEZ, FUENSANTA; CYNTHYA GARCIA DE JESUS. (2/4). 2018. System dynamics and agent-based modelling to represent intangible process assets characterization *KYBERNETES*. 47/2, pp.289-306. ISSN 0368-492X.
- 7 **Scientific paper.** Sanchez-Segura Maria-Isabel; MEDINA DOMÍNGUEZ, FUENSANTA; RUIZ ROBLES, RONALD ALEJANDRO; DUGARTE PEÑA, GERMÁN LENIN. (4/4). 2017. Strategic characterization of process assets based on asset quality and business impact *INDUSTRIAL MANAGEMENT & DATA SYSTEMS*. 117/8, pp.1720-1737. ISSN 0263-5577.
- 8 **Scientific paper.** Sanchez-Segura Maria-Isabel; DUGARTE PEÑA, GERMÁN LENIN; MEDINA DOMÍNGUEZ, FUENSANTA; RUIZ ROBLES, RONALD ALEJANDRO. (2/4). 2016. A Model of Biomimetic Process Assets to Simulate their Impact on Strategic Goals *INFORMATION SYSTEMS FRONTIERS*. pp.1-18. ISSN 1387-3326.
- 9 **Book chapter.** Sanchez-Segura Maria-Isabel; AMESCUA, A. D.; MEDINA DOMÍNGUEZ, FUENSANTA; DUGARTE PEÑA, GERMÁN LENIN; MORA SOTO, JOSÉ ARTURO. (4/5). 2020. ALTUS: A Process-Oriented, Knowledge Governance Maturity Model Knowledge, People, and Digital Transformation. *SPRINGER*. pp.133-162. ISBN 978-3-030-40389-8.

C.2. Participation in R&D and Innovation projects

- 1 2018/00565/001, (ITEA 3) OPTIMUM - OPTimised Industrial IoT and Distributed Control Platform for Manufacturing and Material Handling *SOTEC CONSULTING, S.L.. GÓMEZ BERBÍS, JUAN MIGUEL*. 01/11/2018-30/10/2020. 133.785 €.
- 2 1530479, Decision Risk and Management Science *National Science Foundation (NSF). CLEOTILDE GONZALEZ. (Carnegie Mellon University)*. 01/01/2015-31/12/2019. 483.000 €.

C.3. Participation in R&D and Innovation contracts

- 1 Cátedra IRSST: I+D+i para una transformación digital inteligente de la Seguridad y Salud laboral *INSTITUTO REGIONAL DE SEGURIDAD Y SALUD EN EL TRABAJO.. Sanchez-Segura Maria-Isabel. (Universidad Carlos III de Madrid)*. 16/06/2020-16/06/2023. 180.000 €.
- 2 Collaborative health: Prevención de enfermedades infecciosas basada en el análisis inteligente en redes sociales y participación ciudadana *DANTIA TECNOLOGIA S.L.. GÓMEZ BERBÍS, JUAN MIGUEL. (Universidad Carlos III de Madrid)*. 01/04/2019-01/10/2020. 45.000 €.
- 3 Análisis del uso de soluciones sistémicas para abordar la transformación de las organizaciones en la era digital y del conocimiento *IBM INTERNATIONAL BUSINESS MACHINES, S.A. Sanchez-Segura Maria-Isabel*. 12/07/2018-11/11/2018. 1.500 €.

C.4. Patents