








PERSONAL INFORMATION	Antonella Guzzo	
	 University of Calabria, Department of Computer Engineering, Modeling, Electronics, and Systems Engineering Via P. Bucci, cube 44Z, first floor - 87036 Arcavacata di Rende (CS), Italy	
		
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	h-index: 18 total citations: 2846 (source: https://scholar.google.com/citations?user=N1vtMtQAAAAJ&hl=it)	

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input checked="" type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

April 2018 - present	Associate Professor of Computer Engineering, SSD ING-INF/05 University of Calabria  Research topics: Process and Data Mining, Data Analysis, Cybersecurity Research: Process Discovery on event log; Model Representation; Coalition Structure Generation; Graph Mining; Attach Detection with Model Graph; Inverse Frequent Set Mining
2019 - present	Director of R&S EVO-BI Srl, Rende, Italy  Research topics: Business Intelligence Research: Scalable solutions for BI; intelligent alert for Big Data
2008 – April 2018	Assistant professor of computer engineering, SSD ING-INF/05 University of Calabria  Research topics: Process Mining; Knowledge Representation Process Analysis; Logic-based Process Modeling; Workflow Mining; Outlier Techniques;
2005- April 2008	Research Fellow CNR- Institute for high performance computing and networking (ICAR-CNR) (ex ISI)  Research topics: Process Mining and Data Analysis Clustering Techniques; Data Mining; Conformance Checking; Process Modeling
Nov 2005	Visiting researcher Data Science Center Eindhoven (DSC/e)  Research topics: Process Mining; Process Clustering – deployment of a Plug-in for ProM platform

EDUCATION AND TRAINING

Novembre 2001-October 2004	Ph.D. in Systems and Computer Engineering University of Calabria, Italy  Process Mining; Logic Based Process Modeling
2006	M.Sc. in Management Engineering University of Calabria, Italy  Specialization on energy management system algorithms, 110/110 magna cum laude

PROJECTS (last five years)	
	With leadership roles
March 2017 - Dec 2019	ID: Processi e tecnologie innovative per la protezione delle identità digitali e delle informazioni personali in rete", PON-MISE Grandi Progetti di R&S 2016. PI for the UNICAL research unit
Jan 2019 - Dec 2021	"SON - DISTRIBUTED LEDGERS FOR SECURE OPEN COMMUNITIES"- PON-MISE (PI for the UNICAL research unit)
Jan 2016 - Dec 2019	IDService - "Identità digitale e Service Accountability" (UNICAL reference person for OR1)
Jan 2021- Dec 2023	" SOLIDO- SOLuzioni efficienti di Logistica Industriale per la Distribuzione Organizzata ",Investimenti in Ricerca e Sviluppo – Innovazione R & SS (UNICAL reference person for OR1)
Jan 2023-Dec 2025	PNRR project FAIR – Future AI Research (PE00000013), Spoke 9 – Green-aware AI, under the NRRP MUR program funded by the NextGenerationEU". Dr. Antonella Guzzo is co-leader of the Task 6 on Green AI applications
Jan 2023-Dec 2026	POS Project (Health Operative Program) funded by Minister of Health. Title of the Project: RADIOAMICA (Open Platform for AI-driven Cooperative Radiomics/Radiogenomics). Co-leader OS3
2023	COST Action CA22104 - BEiNG-WISE- Behavioral Next Generation in Wireless Networks for Cyber Security. (Reference person for Unical Paartner)
	Project reviewer
	<ul style="list-style-type: none"> - SIR (Scientific Independence of young Researchers) - Austrian Science Fund (FWF) - Dutch Science Research Council

COMMUNITY SERVICE (last 5y)	
TPC chair	The 29th Italian Symposium on Advanced Database Systems (SEBD), 5-9 September 2021, Pizzo Calabro (VV), Italy.
Workshops co-chair	The 7th International Workshop on Process Querying, Manipulation, and Intelligence. The 2th International Workshop on Business Process Intelligence (BPI)
PhD Award co-chair	Process Mining Dissertation Award'
TPC member (selection)	International Joint Conference on Artificial Intelligence (IJCAI), AAAI, ECAI, DEXA, ICPM, BPI,
Regular reviewer	AI communication; IEEE Transactions on Knowledge and Data Engineering (TKDE); ACM Transactions on Knowledge Discovery from Data (TKDD); Data Mining and Knowledge Discovery; Information Systems (IS), Elsevier; Knowledge and Information Systems (KAIS), Springer; Knowledge & Data Engineering (DKE);

EDITORIAL ACTIVITY	
2021	"Process Mining and Emerging Applications", - Algorithms-MDPI journal

TEACHING (last 5 years)	
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2015 - Present	Process Mining "Metodi per l'analisi dei processi di business", MSc Program in Management Engineering University of Calabria
2016 - Present	"Foundations of Computer Science", BC Program in Management Engineering University of Calabria
2021	"Foundations of Computer Science", BC Program in Electrical Engineering University of Calabria
2020	"Informatic for Social Science", MSc Program in Politic Science University of Calabria
2016-2019	"Laboratory of Computer Science" – BSc Program in Scienze Turistiche, University of Calabria

INSTITUTIONAL RESPONSIBILITIES	
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2005 - Present	Board of the PhD program in ICT (formerly: PhD program in Systems and Computer Engineering), University of Calabria, Italy
2019 - Present	Board of Cyberchallenge.it
2019- Present	DIMES Head's Delegate for the Department Quality Assurance Unit.

INVITED TALKS	
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	Process mining meets security" at Cyber Security District
2010	ProM - the Process Mining framework - Doctoral School in Computer Engineering organized by Gruppo di Ingegneria Informatica (GII)

FELLOWSHIPS AND AWARDS	
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2008	Best Paper Award at International Conference on Enterprise Information Systems
2006	Select paper at International Conference on Data Warehousing and Knowledge Discovery

ADDITIONAL INFORMATION	
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2019	ASN I Fascia – settore 09/H1
	Co-founder of IEEE Working Group for the definition of Standard XES - eXtensible Event Stream
2009	Co-founder of IEEE task force in Process Mining

PUBLICATIONS	
<p>Publications best and most relevant in the last 10 years</p>	<p>Antonella Guzzo, Antonino Rullo, Eugenio Vocaturo: Process mining applications in the healthcare domain: A comprehensive review. <i>WIREs Data Mining Knowl. Discov.</i> 12(2) (2022)</p> <p>Antonella Guzzo: Special Issue on Process Mining and Emerging Applications. <i>Algorithms</i> 14(1): 13 (2021)</p> <p>Giancarlo Fortino, Antonella Guzzo, Michele Ianni, Francesco Leotta, Massimo Mecella: Predicting activities of daily living via temporal point processes: Approaches and experimental results. <i>Comput. Electr. Eng.</i> 96(Part): 107567 (2021)</p> <p>Antonella Guzzo, Mikel Joaristi, Antonino Rullo, Edoardo Serra: A multi-perspective approach for the analysis of complex business processes behavior. <i>Expert Syst. Appl.</i> 177: 114934 (2021)</p> <p>Dipanwita Thakur, Antonella Guzzo, Giancarlo Fortino: t-SNE and PCA in Ensemble Learning based Human Activity Recognition with Smartwatch*. <i>ICHMS</i> 2021: 1-6</p> <p>Antonella Guzzo, Michele Ianni, Andrea Pugliese, Domenico Saccà: Modeling and efficiently detecting security-critical sequences of actions. <i>Future Gener. Comput. Syst.</i> 113: 196-206 (2020)</p> <p>Valeria Fionda, Antonella Guzzo: Control-Flow Modeling with Declare: Behavioral Properties, Computational Complexity, and Tools. <i>IEEE Trans. Knowl. Data Eng.</i> 32(5): 898-911 (2020)</p> <p>Gianluigi Greco, Antonella Guzzo, Giuseppe Nardiello: FD-VAE: A Feature Driven VAE Architecture for Flexible Synthetic Data Generation. <i>DEXA</i> (1) 2020: 188-197</p> <p>Mario Alviano, Gianluigi Greco, Antonella Guzzo: Coalition formation in social environments with logic-based agents. <i>AI Commun.</i> 31(5): 383-407 (2018)</p> <p>Gianluigi Greco, Antonella Guzzo: Constrained Coalition Formation on Valuation Structures: Formal Framework, Applications, and Islands of Tractability. <i>IJCAI</i> 2018: 5612-5616</p> <p>Antonino Rullo, Antonella Guzzo, Edoardo Serra, Erika Tirrito: A Framework for the Multi-modal Analysis of Novel Behavior in Business Processes. <i>IDEAL</i> (1) 2020: 51-63</p> <p>Antonella Guzzo, Andrea Pugliese, Antonino Rullo, Domenico Saccà, Antonio Piccolo: Malevolent Activity Detection with Hypergraph-Based Models. <i>IEEE Trans. Knowl. Data Eng.</i> 29(5): 1115-1128 (2017)</p> <p>Gianluigi Greco, Antonella Guzzo: Constrained coalition formation on valuation structures: Formal framework, applications, and islands of tractability. <i>Artif. Intell.</i> 249: 19-46 (2017)</p> <p>Gianluigi Greco, Antonella Guzzo, Francesco Lupia, Luigi Pontieri: Process Discovery under Precedence Constraints. <i>ACM Trans. Knowl. Discov. Data</i> 9(4): 32:1-32:39 (2015)</p> <p>Gianluigi Greco, Antonella Guzzo, Luigi Pontieri: Process Discovery via Precedence Constraints. <i>ECAI</i> 2012: 366-371</p> <p>Domenico Saccà, Edoardo Serra, Antonella Guzzo: Count Constraints and the Inverse OLAP Problem: Definition, Complexity and a Step toward Aggregate Data Exchange. <i>FOLKS</i> 2012: 352-36</p>

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

April, 21 2023