	Alessandro Aimi Born in 1995, Parma, Italy		
Modena, Italy 💡	Postdoctoral researcher in Computer Science and Engineering		
non-uet-ane 🦦	Network simulation, mathematical modeling and optimization		
Mort		0.1. 2022	
Experience	Alma Mater Studiorum - Università di Bologna, Italy.	Oct. 2023 - Current	
	Research Engineer , <i>Orange SA, Paris, France.</i>	2020 - 2023	
Education	PhD in Computer Science and Engineering, HESAM Université, Paris, France.	2020 - 2023	
	Thesis title: Algorithms for Reliability Insurance and Traffic Differentiation in Low Power Internet of Things Communication Networks. Supervisor: Prof. Stefano Secci.		
	MSc in Computer Science and Engineering, Politecnico di Milano, Italy.	2017 - 2020	
	Study track: Theoretical Computer Science and Artificial Intelligence Thesis title: Efficient Algorithms for Computing Semivalue Single Poin Cooperative Games. Supervisor: Prof. Roberto Lucchetti.	e. nt Solution Concepts of TU	
Research Activities	 Integration of the 5G paradigm of network slicing in the context of LoRaWAN, with a focus on service quality differentiation for the urban IoT; 		
	 Design of original algorithms and investigation of optimal parameter settings for the management of dense, multi-service LoRaWAN networks; Development of <i>ELoRa</i> a research tool for end-to-end LoRaWAN emulation and real-time. 		
	 Development of <i>EEONa</i>, a research too for end-to-end EoNavian endation and real-time interaction with distributed ChirpStack server infrastructures; Novel decentralized and participated LoRa architectures for sensor networks supporting 		
	smart-city services;Maintainer of the lorawan ns-3 module.		
Projects	ANR INTELLIGENTSIA,	2020 - Current	
	French research project on IN Telligent Edge using Learning Loops for NeTwork State Inference-based Automation.	& Information GEneration	
	architecture framework definition), WP2 (Orchestration state mad algorithms), WP3 (Virtualization and automation of IoT access netw Concept and Experimentation).	works), and WP4 (Proof of	
	H2020 EU Flagship Hexa-X,	2020 - 2021	
	European research project on B5G/6G vision and intelligent fabric of technology enablers connecting the human, physical, and digital worlds.		
	and service management for future B5G/6G networks).	u (inteiligent orcnestration	

	House of Emerging Technologies, City of Bologna,2023 - CItalian innovation project aimed at supporting local startups and enterprises in expnew technologies enabled by 5G networks, such as Blockchain, IoT, and AI.Leadership of WP3 (Internal experimentation and development of PoCs with innovative tegies on the territory).	current ploiting echnolo-
Publications	Packet Delivery Ratio Guarantees for Differentiated LoRaWAN Services , <i>Aimi, Guillemin, Rovedakis & Secci</i> , IEEE Global Communications Conference (GLOBECOM).	2022
	Traffic Control and Channel Assignment for Quality Differentiation in Dense Urban LoRaWANs , <i>Aimi, Guillemin, Rovedakis & Secci</i> , International Symposium on Modeling and Optimization in Mobile, Ad hoc, and Wireless Networks (WiOpt).	2022
	ELoRa: End-to-end Emulation of Massive IoT LoRaWAN Infrastructures , <i>Aimi, Guillemin, Rovedakis & Secci</i> , IEEE/IFIP Network Operations and Management Symposium (NOMS).	2023
Skills and Interests		
Tools	Day to day usage: C/C++, Rust, ns-3, GNU/Linux, git, Docker, Python Moderate proficiency: Assembly (MIPS, x86), Java, SQL/XQuery Basic knowledge: Full-stack web development	
Languages	Italian: Mother tongue English: Fluent French: Professional knowledge	
Interests	FOSS, Mathematics, Prog rock, Jazz, Lindy Hop, Art, Outdoor life, Traveling	