CURRICULUM VITAE

PERSONAL INFORMATION	RAFFAELE MONTELLA
	The University of Naples "Parthenope", Via: Acton 38, City: Naples (Italy)
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	Male / 10.05.1972
	h-index: 24 Total citations: 1232 (Scopus)

Enterprise		University		EPR	
☐	Management Level	☐	Full professor	☐	Research Director and 1st level Technologist/First Researcher and 2nd level Technologist
☐	Mid-Management Level	☒	Associate professor	☐	Level III Researcher and Technologist
☐	Employee/worker level	☐	Researcher and Technologist of IV, V, VI and VII level/Technical collaborator	☐	Researcher and Technologist of IV, V, VI and VII level/Technical collaborator

WORK EXPERIENCE

2022 - present	POSITION: Associate Professor of Computer Science (INF01, 01/B1) with tenure.
	INSTITUTIONAL ADDRESS: University of Naples "Parthenope", Naples, Italy.
	Research Topics: High-Performance Computing, Cloud Computing, GPU Virtualization, Scientific Workflows, Internet of Things, Computational Environmental Science.
	Research or Industry:Research
2008 - 2021	POSITION HELD Assistant Professor of Computer Science (INF01, 01/B1) with tenure.
	INSTITUTIONAL ADDRESS: University of Naples "Parthenope", Naples, Italy.
	Research Topics: High-Performance Computing, Cloud Computing, GPU Virtualization, Scientific Workflows, Internet of Things, Computational Environmental Science.
	Research or Industry: Research

EDUCATION AND TRAINING

2005	PhD in Marine Science and Engineering
	University of Naples "Federico II"

	Topics: Environmental modelling with Grid Computing	
1998	M.Sc+B.Sc in Environmental Science	
	Naval University of Naples	
	Topics: Development of a GIS for marine applications	

PROJECTS (last five years)

	With leadership roles
2024-2025	MytilX: Modelling mytilus farming at scale (IZSUM, PI)
2023-2025	FGPE Plus Plus: Gamified Programming Learning at Scale (Erasmus Agency, Local PI)
2023-2028	MytilEx: Extended Modeling mytilus farming System with High-Performance Computing and Artificial Intelligence (Campania Region, PI)
2022-2023	DX4S: DataX for the Sea (NEC Labs of America, PI)
2020-2023	Borgo 4.0: A-Mobility (Campania Region, Local PI)
2021-2023	FGPE Plus: Learning tools interoperability for gamified programming education (Erasmus Agency, Local PI)
2021-2023	MytilAI: Modeling mytilus farming with Artificial Intelligence technologies (Campania Region, PI)
2021-2024	ADMIRE: Adaptive Multi-tier intelligent data manager for Exascale (H2020 EuroHPC, Local PI)
2018-2021	FGPE: Framework for Gamified Programming Education (Erasmus Agency, Local PI)

ADDITIONAL INFORMATION

2023	Italian National Academic Qualifications as a Full Professor in Computer Science (01/B1)

PUBLICATIONS

Publications best and most relevant in the last 10 years	1- Montella, R., D. Kelly, W. Xiong, A. Brizius, J. Elliott, R. Madduri, K. Maheshwari et al. "FACE- IT: A science gateway for food security research." *Concurrency and Computation: Practice and Experience* 27, no. 16 (2015): 4423-4436. 2- Di Luccio, D., A. Riccio, A. Galletti, G. Laccetti, M. Lapegna, L. Marcellino, S. Kosta, R. Montella. "Coastal marine data crowdsourcing using the Internet of Floating Things: Improving the results of a water quality model." *IEEE Access* 8 (2020): 101209-101223. 3- Montella, R., S. Kosta, D. Oro, J. Vera, C. Fernández, C. Palmieri, D. Di Luccio, G. Giunta, M. Lapegna, and G. Laccetti. "Accelerating Linux and Android applications on low-power devices through remote GPGPU offloading." *Concurrency and Computation: Practice and Experience* 29, no. 24 (2017): e4286. 4- Montella, R., G. Giunta, G. Laccetti, M. Lapegna, C. Palmieri, C. Ferraro, V. Pelliccia, C. Hong, I. Spence, D. S. Nikolopoulos. "On the virtualization of CUDA based GPU remoting on ARM and X86 machines in the GVirtuS framework." *International Journal of Parallel Programming* 45 (2017): 1142-1163.

5- Montella, R., G. Giunta, G. Laccetti. "Virtualizing high-end GPGPUs on ARM clusters for the next generation of high performance cloud computing." *Cluster computing* 17 (2014): 139-152.

6- Laccetti, G., R. Montella, C. Palmieri, V. Pelliccia. "The high performance internet of things: using GVirtuS to share high-end GPUs with ARM based cluster computing nodes." In *International Conference on Parallel Processing and Applied Mathematics*, pp. 734-744. Berlin, Heidelberg: Springer Berlin Heidelberg, 2013.

7- Montella, R., M. Ruggieri, S. Kosta. "A fast, secure, reliable, and resilient data transfer framework for pervasive IoT applications." In *IEEE INFOCOM 2018-IEEE conference on computer communications workshops (INFOCOM WKSHPS)*, pp. 710-715. IEEE, 2018.

8- Sánchez-Gallegos, D. D., D. Di Luccio, S. Kosta, J. L. Gonzalez-Compean, and R. Montella. "An efficient pattern-based approach for workflow supporting large-scale science: The DagOnStar experience." *Future Generation Computer Systems* 122 (2021): 187-203.

9- Montella, R., D. Di Luccio, L. Marcellino, A. Galletti, S. Kosta, G. Giunta, I. Foster. "Workflow-based automatic processing for internet of floating things crowdsourced data." *Future generation computer systems* 94 (2019): 103-119.

10- Montella, R., A. Brizius, D. Di Luccio, C. Porter, J. Elliot, R. Madduri, D. Kelly, A. Riccio, I. Foster. "Using the face-it portal and workflow engine for operational food quality prediction and assessment: An application to mussel farms monitoring in the bay of napoli, italy." Future Generation Computer Systems 110 (2020): 453-467.

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.

Date and signature (remove if digitally signed) **11 April 2024, Raffaele Montella**