







CURRICULUM VITAE

PERSONAL INFORMATION	RAFFAELE MONTELLA
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(into)	E-mail:
	raffaele.montella@uniparthenope.it
	https://raffaelemontella.it
	Male / 10.05.1972
	h-index: 23 Total citations: 1122
	(Scopus)

Industry	University	EPR
Management Level	Full professor	Research Director and 1 st level Technologist; First Researcher and 2 nd level Technologist
Mid-Management Level	X Associate professor	β rd level Researcher and Technologist
Employee/worker level	4 th , 5 th , 6 th and 7 th level Researcher and Technologist; Technical collaborator	4 th , 5 th , 6 th and 7 th level Researcher and Technologist; 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)

	Indicate only projects with leadership roles
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)
2022	Head of AWS Academy @ uniparthenope
2022	Director of the High-Performance Scientific Computing
	laboratory
2022	Dead of the University of Naples "Parthenope" node of the
	CINI National Laboratory "HPC: Key Technologies and Tools"
2012	Founder and curator of the Museum of Computational
	Architectures (MArC)
2010	Chief of Technical Operations (CTO) of the Center for Marine
	and Atmosphere Monitoring and Modeling (CMMMA)



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Most relevant	1. Montella, Raffaele, David Kelly, Wei Xiong, Alison Brizius,
publications of the last	Joshua Elliott, Ravi Madduri, Ketan Maheshwari et al. "FACE-
10 years	IT: A science gateway for food security research." <i>Concurrency</i>
	and Computation: Practice and Experience 27, no. 16 (2015):
	4423-4436.
	2. Di Luccio, Diana, Angelo Riccio, Ardelio Galletti, Giuliano
	Laccetti, Marco Lapegna, Livia Marcellino, Sokol Kosta, and
	Raffaele Montella. "Coastal marine data crowdsourcing using
	the Internet of Floating Things: Improving the results of a
	water quality model." <i>IEEE Access</i> 8 (2020): 101209-101223.
	3. Marcellino, Livia, Raffaele Montella, Sokol Kosta, Ardelio
	Galletti, Diana Di Luccio, Vincenzo Santopietro, Mario
	Ruggieri, Marco Lapegna, Luisa D'Amore, and Giuliano
	Laccetti. "Using GPGPU accelerated interpolation algorithms
	for marine bathymetry processing with on-premises and
	cloud based computational resources." In International
	Conference on Parallel Processing and Applied Mathematics,
	pp. 14-24. Cham: Springer International Publishing, 2017.
	4. Montella, Rattaele, Diana Di Luccio, Pasquale Troiano,
	Angelo Riccio, Alison Brizius, and Ian Foster. "WaComM: A
	parallel Water quality Community Model for pollutant
	transport and dispersion operational predictions." In 2016
	12th International Conference on Signal-Image Technology &
	Internet-Based Systems (SITIS), pp. 717-724. IEEE, 2016.
	5. Montella, Ralfaele, Sokol Kosta, David Oro, Javier Vera,
	Carles Fernandez, Carlo Parmieri, Diana Di Luccio, Giuno
	Linux and Android applications on low-power devices through
	remote GPGPU offloading " Concurrency and Computation:
	Practice and Experience 29 no. 24 (2017): e4286
	6 Montella Baffaele Giulio Giunta Giuliano Laccetti Marco
	Lanegna, Carlo Palmieri, Carmine Ferraro, Valentina Pelliccia
	Cheol-Ho Hong Ivor Spence and Dimitrios S. Nikolonoulos
	"On the virtualization of CUDA based GPU remoting on ARM
	and X86 machines in the GVirtuS framework." <i>International</i>
	Journal of Parallel Programming 45 (2017): 1142-1163.
	7. Montella, Raffaele, Diana Di Luccio, and Sokol Kosta.
	"Dagon: Executing direct acyclic graphs as parallel jobs on
	anything." In 2018 IEEE/ACM Workflows in Support of Large-
	Scale Science (WORKS), pp. 64-73. IEEE, 2018.
	8. Montella, Raffaele, Giulio Giunta, and Giuliano Laccetti.
	"Virtualizing high-end GPGPUs on ARM clusters for the next
	generation of high performance cloud computing." Cluster
	computing 17 (2014): 139-152.
	9. Montella, Raffaele, Carmine Ferraro, Sokol Kosta, Valentina
	Pelliccia, and Giulio Giunta. "Enabling android-based devices













to high-end gpgpus." In Algorithms and Architectures for Parallel Processing: 16th International Conference, ICA3PP 2016, Granada, Spain, December 14-16, 2016, Proceedings 15, pp. 118-125. Springer International Publishing, 2016. 10. Montella, Raffaele, Giulio Giunta, Giuliano Laccetti, Marco Lapegna, Carlo Palmieri, Carmine Ferraro, and Valentina Pelliccia. "Virtualizing CUDA enabled GPGPUs on ARM Clusters." In Parallel Processing and Applied Mathematics: 11th International Conference, PPAM 2015, Krakow, Poland, September 6-9, 2015. 11. Laccetti, Giuliano, Raffaele Montella, Carlo Palmieri, and Valentina 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. 12. Montella, Raffaele, Sokol Kosta, and Ian Foster. "DYNAMO: Distributed leisure yacht-carried sensor-network for atmosphere and marine data crowdsourcing applications." In 2018 IEEE International Conference on Cloud Engineering (IC2E), pp. 333-339. IEEE, 2018. 13. Montella, Raffaele, Mario Ruggieri, and Sokol 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. 14. Sánchez-Gallegos, Dante Domizzi, Diana Di Luccio, Sokol Kosta, J. L. Gonzalez-Compean, and Raffaele Montella. "An efficient pattern-based approach for workflow supporting large-scale science: The DagOnStar experience." Future Generation Computer Systems 122 (2021): 187-203. 15. Montella, Raffaele, Diana Di Luccio, Livia Marcellino, Ardelio Galletti, Sokol Kosta, Giulio Giunta, and Ian Foster. "Workflow-based automatic processing for internet of floating things crowdsourced data." Future generation
large-scale science: The DagOnStar experience." <i>Future</i> <i>Generation Computer Systems</i> 122 (2021): 187-203. 15. Montella, Raffaele, Diana Di Luccio, Livia Marcellino,
"Workflow-based automatic processing for internet of floating things crowdsourced data." <i>Future generation</i> <i>computer systems</i> 94 (2019): 103-119.
16. Montella, Raffaele, Alison Brizius, Diana Di Luccio, Cheryl Porter, Joshua Elliot, Ravi Madduri, David Kelly, Angelo Riccio, and Ian 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." <i>Future Generation Computer Systems</i> 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

07/02/2024 Raffaele Montella Refere Montella

