

Personal information

Rosario Culmone



 University of Camerino

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Nationality: Italian

Work experience

November 1994, September 1995	Scholarship founded by Olivetti, Ivrea, Italy
December 1985, April 1997	Complementary officer in Telecommunications of Italian Army, Florence, Italy
May 1987, September 1997	Advisor for ItLab, Pisa, Italy
October 1987, December 1988	High school computer teacher, San Severino Marche, Italy
January 1989, December 1989	Technical collaborator in computer science at Chieti University, Italy
January 1990, February 2005	Technical officer in computer science at University of Camerino, Italy
March 2005, present	Researcher in Computer Science, School of Science and Technologies, University of Camerino, Italy

Education and training

October 1985	Degree in computer science, University of Pisa, Pisa, Italy
September 1994	Assistant in "Theory and application of calculator machines" for Mathematics Courses of Faculty of Mathematical, Physical and Natural Sciences, University of Camerino, Camerino, Italy

Teaching experiences

1994-1996	<i>Diploma in informatica</i>
1994-1996	Programmazione 1
	Laboratorio 1
1992	<i>Scuola diretta a fini speciali in informatica (a distanza)</i>
1993	Telematica e sistemi distribuiti
	Linguaggi e metodi di programmazione
	<i>Scuola diretta a fini speciali in informatica (biennale)</i>
1993	Telematica e sistemi distribuiti
1992-1995	Linguaggi e metodi di programmazione
	<i>Scuola diretta a fini speciali in informatica (triennale)</i>
1995-1997	Telematica e sistemi distribuiti
1992-1999	Linguaggi e metodi di programmazione
	<i>Bachelor in computer science</i>
2000-2002, 2017	Operative systems
2000-2001	Operative systems laboratory
2001-2006	Algorithms and data structures
2001-2006	Algorithms and data structures laboratory
2001/2002	Databases
2001-2002	Databases laboratory
2001-2002, 2007-2009	Fundamentals of Computer Science

2003-2017	Software programming
2003-present	Software programming laboratory
2012-2014	Programming 1
2004-2010	Software engineering laboratory
2010-2017	Software engineering
2018-present	Functional programming <i>Master in computer science</i>
2017-2020	Embedded system programming <i>Member Board of Directors, Doctorate</i>
2017-present	Computer Science
2011-2016	Science and technology
2006-2010	Computer science and complex systems

Personal skills

Mother tongue	Italian				
Other language	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Projects

2014-2020	HD3FLAB Human Digital Flexible “Factory of the Future”, Adriatic-Ionian Programme INTERREG V-B Transnational. Member
2015-2018	Matrend. Project FAR UNICAM. “MAterials and Technologies for improving the use of Renewable ENergy in the Districts of smart city”. Computer Science Coordinator
2015-2016	ForULab. Project FAR UNICAM.” Forensic Unicam Laboratory”. Computer Science Coordinator
2015-2018	ENEPLAN European project ERASMUS+. Coordinator Prof Computer Science Coordinator
2015-2018	SMEME European project LIFE “Smart Monitoring system supporting Energy and Mobility Efficiency”. Coordinator
2013-2015	AALISABETH Project funded by Regione Marche. “Ambient-Aware LifeStyle tutor, Aiming at a BETter Health”. Member
1996	ISPESL “Study and implementation of a software package concerning the application of neuronal networks and data concerning both environmental pollution and exposure of people”. Computer Science Coordinator
1998	ISPESL “Assessment of the professional exposure to electromagnetic fields of workers employed in different types of work”. Computer Science Coordinator
1998	ISPESL “Alteration of the molecular structure of organic substances of biological interest as a result of exposure to radio frequency electromagnetic fields”. Computer Science Coordinator
2001	Project “SkinNet” funded by INRCA for biomedical image analysis. Member
2005-2008	PRIN “Reconfiguration of control under Reduced Control Authority conditions for autonomous and cooperating heterogeneous systems”. Computer Science Coordinator
2007-2010	PRIN “Performability-Aware Computig: Logic, Models, ad Languages”. Member
2019-2021	PRIN “IT Matters: Methods and Tools for Trustworthy Smart systems”. Member

Recent publications

Journals

- Cacciagrano, D.R. and Corradini, F. and Culmone, R. and Gorgiannis, N. and Mostarda, L. and Raimondi, F. and Vannucchi, C., “Analysis and verification of ECA rules in intelligent environments”, Journal of Ambient Intelligence and Smart Environments, Year 2018, Volume 10, Number 3
- Mehmood, N.Q. and Culmone, R. and Mostarda, L., “Modeling temporal aspects of sensor data for MongoDB NoSQL database”, Journal of Big Data, Year 2017, Volume 4, Number 1,

- Vannucchi, C. and Diamanti, M. and Mazzante, G. and Cacciagrano, D. and Culmone, R. and Gorogiannis, N. and Mostarda, L. and Raimondi, F., “Symbolic verification of event-condition-action rules in intelligent environments”, *Journal of Reliable Intelligent Environments*, Year 2017, Volume 3, Number 2
- Culmone, R., “Vanishing files: Protocols and regulations for immaterial documents”, *International Journal of Electronic Security and Digital Forensics*, Year 2017, Volume 9, Number 1,
- Mehmood, N.Q. and Culmone, R. and Mostarda, L., “A Flexible and Scalable Architecture for Real-Time ANT+ Sensor Data Acquisition and NoSQL Storage”, *International Journal of Distributed Sensor Networks*, Year 2016, Volume 2016, Number 3651591

Conferences

- Culmone, R. and Pagnotta, F., “Energy Efficient Light Routing in Utility Network”, *Advances in Intelligent Systems and Computing*, Year 2019, Volume 927
- Cacciagrano, D.R. and Culmone, R., “Formal semantics of an IoT-specific language”, *Proceedings - 32nd IEEE International Conference on Advanced Information Networking and Applications Workshops, WAINA 2018*, Year 2018, Volume 2018-January
- Vannucchi, C. and Diamanti, M. and Mazzante, G. and Cacciagrano, D.R. and Corradini, F. and Culmone, R. and Gorogiannis, N. and Mostarda, L. and Raimondi, F., “vIRONy: A tool for analysis and verification of ECA rules in intelligent environments”, *Proceedings - 2017 13th International Conference on Intelligent Environments, IE 2017*, Year 2017, Volume 2017-January
- Quadri, M. and Culmone, R. and Merelli, E., “Topological classification of RNA structures via intersection graph”, *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, Year 2017, Volume 10687 LNCS,
- Mehmood, N.Q. and Culmone, R., “A data acquisition and document oriented storage methodology for ANT+ protocol sensors in real-time web”, *Proceedings - IEEE 30th International Conference on Advanced Information Networking and Applications Workshops, WAINA 2016*, Year 2016