Europass Curriculum Vitae

Personal information

Surname(s) / First name(s)	**Epicoco Italo**
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Email(s)	italo.epicoco@unisalento.it
Nationality(-ies)	Italian
Date of birth	01/01/1973
Gender	M
ORCID	https://orcid.org/0000-0002-6408-1335

Professional experience

Date	From October 2018
Position	Senior Scientist
Activity	Head of the High-End Computing Research Group
Institution	Euro Mediterranean Center on Climate Change, Foundation, Italy - Advanced Scientific Computing Division (ASC)
Date	From July 2018
Position	Director of the CINI Research Unit - Consorzio Interuniversitario Nazionale per l'Informatica
Activity	Coordination of the UniSalento Research Unit
Institution	Dept. of Innovation Engineering, University of Salento, Italy
Date	From Dec. 2002
Position	Assistant Professor
Activity	Information Processing Systems
Institution	Dept. of Innovation Engineering, University of Salento, Italy
Date	July 2017 - September 2017
Position	Scientific Advisor
Activity	Optimization and parallelization on GPU architecture of the RBF interpolation algorithm applied to remote sensing image processing
Organization	Planetek Italia s.r.l.
Date	July 2015
Position	Scientific Advisor
Activity	Optimization and parallelization on GPU architecture of the interferometric processing algorithm implemented using the Doris software.
Organization	Planetek Italia s.r.l.
Date	From 2005 to July 2014
Position	Senior Scientist
Activity	Head of the High-End Computing Research Group
Institution	Euro Mediterranean Center on Climate Change, Foundation, Italy - Advanced Scientific Computing Division (ASC)

Date	From 2004 to 2011
Position	Scientific Advisor
Activity	Scientific advice and technology transfer
Organization	Global Research for Innovative Design s.r.l. (GRID s.r.l.), Lecce, Italy

Date	From 2004 to 2011
Position	Scientific Consultant
Activity	Development of grid computing middleware services
Institution	Southern Partnership for Advanced Computing Infrastructure (SPACI Consortium), Lecce, Italy

Education and training

Date	June 2003
Title	Ph.D. in Innovative Materials and Technologies (Computer Engineering area)
Thesis	Innovative technologies for grid environment management
Institution	ISUFI - University of Lecce, Italy

Date	February 1998
Title	M.Sc. in Computer Engineering
Thesis	Partitioning Techniques of VHDL Descriptions
Institution	Politecnico di Milano, Italy

Qualifications

Date	June 1998
Title	License to practice the Engineer profession

Date	June 2001
Title	License to teach at higher education level
Class	Computer Science

Research Activity

Since 2014, he has been dealing with high-performance computing and the optimization of data mining algorithms. Particularly relevant are the scientific results obtained in the context of the algorithms inherent in the identification of frequent items, top-k and in general data stream processing.

Starting in 2007, he has been dealing with the problems of high-performance computing for applications related to climate models. Of particular interest are the studies concerning the optimization and parallelization of coupled atmosphere-ocean models for the study of the Earth System Model, used within the CMCC. In this context, he has contributed to the improvement of the algorithms used for the coupling of climate models by working with international groups such as CERFACS and IPSL in France. He has also actively contributed to the development of the NEMO ocean model by being a member of the system team within the NEMO Consortium.

From 2000 to 2007, he carried out research in the high performance and distributed computing sector paying particular attention to the emerging field of grid computing. In the framework of his research, he has dealt with both theoretical and application aspects related to middleware services for the management of distributed resources in grid environments and, in particular, the issues related to: resource brokering and scheduling, data management, information services and security. Part of the research activity also involved the study of Earth observation applications on distributed infrastructures. He has also actively participated in the work of the Global Grid Forum (GGF), contributing to the Grid Computing Environments research group by working on grid portals for transparent access to computational/data grids.

Editorial

Role	Associate Editor
Journal	IEEE Access
Role	Guest Editor
Journal	Special issue in Algorithms
Journal	Special Issue in Information Sciences
Role	Program Committee Member
Conference	The First International Workshop on Advances in High performance Algorithms Middleware and Applications (AHPAMA 2018) - Washington D.C., USA May 1, 2018
Conference	The First International Workshop on Parallel and Distributed Data Mining (WPDM 2018) - Melbourne, Australia, July 2 - 5, 2018
Conference	The First International Workshop on Parallel and Distributed Data Mining (WPDM 2017) - Genoa, Italy July 17 - July 21, 2017
Conference	International Workshop on High performance Computing for Weather, Climate, and solid Earth Sciences (HPC-WCES 2016) - Innsbruck, Austria July 18 - July 22, 2016
Conference	International Workshop on High performance Computing for Weather, Climate, and solid Earth Sciences (HPC-WCES 2015) - Amsterdam, The Netherlands July 20 - July 24, 2015
Conference	International Workshop on High performance Computing for Weather, Climate, and solid Earth Sciences (HPC-WCES 2014) - Bologna, Italy, July 21-25, 2014.
Role	Reviewer
Journal	Future Generation in Computer Science
Journal	Information Science

Teaching Activity

Subject	Mobile Application Development
Academic Year	from 2017/18 to 2018/19
Course	M.Sc. European Heritage, Digital Media and the Information Society
Faculty	Cultural Heritage
University	University of Salento, Lecce, Italy
Subject	Foundations of Computer Science
Academic Year	from 2015/16 to 2018/19
Course	B.Sc. Computer Engineering
Faculty	Engineering
University	University of Salento, Lecce, Italy
Subject	Computer Architecture
Academic Year	2012/13
Course	B.Sc. Computer Science
Faculty	Mathematics and Physics Sciences
University	University of Bari, Italy
Subject	Parallel and Distributed Computing Applications
Academic Year	From 2009/10 to 2011/12
Course	M.Sc. Computer Engineering
Faculty	Engineering
University	University of Salento, Lecce, Italy
Subject	Processing Systems
Academic Year	2008/09

Course	B.Sc. Computer Engineering
Faculty	Engineering
University	University of Salento, Lecce, Italy
Subject	Computer Architecture II
Academic Year	From 2008/09 to 2009/10
Course	B.Sc. Computer Engineering
Faculty	Engineering
University	University of Salento, Lecce, Italy
Subject	Computer Architecture I
Academic Year	From 2003/04 to 2007/08
Course	Computer Engineering - B.Sc.
Faculty	Engineering
University	University of Salento, Lecce, Italy

Publications

Journals

Massimo Cafaro, Italo Epicoco, and Marco Pulimeno.
Mining frequent items in unstructured p2p networks.
arXiv preprint arXiv:1806.06580, 2018

Italo Epicoco, Massimo Cafaro, and Marco Pulimeno.
Fast and accurate mining of correlated heavy hitters.
Data Mining and Knowledge Discovery, 32(1):162–186, 2018

Massimo Cafaro, Italo Epicoco, Marco Pulimeno, and Giovanni Aloisio.
On frequency estimation and detection of frequent items in time faded streams.
IEEE Access, 5:24078–24093, 2017

Italo Epicoco, Silvia Mocavero, Andrew R Porter, Stephen M Pickles, Mike Ashworth, and Giovanni Aloisio.
Hybridisation strategies and data structures for the nemo ocean model.
The International Journal of High-Performance Computing Applications, page 1094342016684930, 2017

Massimo Cafaro, Marco Pulimeno, Italo Epicoco, and Giovanni Aloisio.
Mining frequent items in the time fading model.
Information Sciences, 370:221–238, 2016

Italo Epicoco, Silvia Mocavero, Francesca Macchia, Marcello Vichi, Tomas Lovato, Simona Masina, and Giovanni Aloisio.
Performance and results of the high-resolution biogeochemical model pelagos025 v1. 0 within nemo v3. 4.
Geoscientific Model Development, 9(6):2115–2128, 2016

Patrizia Beraldi, Lucio Grandinetti, Italo Epicoco, Antonio Violi, and Maria Elena Bruni.
An advanced system for portfolio optimisation.
INTERNATIONAL JOURNAL OF GRID AND UTILITY COMPUTING, 5:21–32, 2014

Italo Epicoco, Silvia Mocavero, and Giovanni Aloisio.
The performance model for a parallel sor algorithm using the red-black scheme.
INTERNATIONAL JOURNAL OF HIGH-PERFORMANCE SYSTEMS ARCHITEC- TURE, 4:101–109, 2012

M. Cafaro, I. Epicoco, S. Fiore, D. Lezzi, S. Mocavero, and G. Aloisio.
Near real-time parallel processing and advanced data management of sar images in grid environments.
JOURNAL OF REAL-TIME IMAGE PROCESSING, Vol. 4 Issue 3:219–227, 2009

M. CAFARO, I. EPICOCO, M. MIRTO, D. LEZZI, and G. ALOISIO.
The grid resource broker workflow engine.
CONCURRENCY AND COMPUTATION, 20 issue 15:1725–1739, 2008

M. MIRTO, S. FIORE, I. EPICOCO, M. CAFARO, S. MOCAVERO, E. BLASI, and G. ALOISIO.
A bioinformatics grid alignment toolkit.
FUTURE GENERATION COMPUTER SYSTEMS, 24 issue 7:752–762, 2008

G. ALOISIO, M. CAFARO, G. CARTENI, I. EPICOCO, S. FIORE, D. LEZZI, M. MIRTO, and S. MOCAVERO.
The grid resource broker portal.
CONCURRENCY AND COMPUTATION, 19 issue 12:1663–1670, 2007

G. Aloisio, M. Cafaro, G. Carteni, I. Epicoco, and G. Quarta.
A grid portal for earth observation community.
NUOVO CIMENTO DELLA SOCIETÀ ITALIANA DI FISICA. C, GEOPHYSICS AND SPACE PHYSICS, 28 issue 2:193–203, 2005

G. ALOISIO, M. CAFARO, E. BLASI, and I. EPICOCO.
The grid resource broker, a ubiquitous grid computing framework, 2002

G. ALOISIO, M. CAFARO, and I. EPICOCO.
Early experiences with the gridftp protocol using the grb-gsiftp library.
FUTURE GENERATION COMPUTER SYSTEMS, 18 n.8:1053–1059, 2002

Conference Proceedings

Marco Pulimeno, Italo Epicoco, Massimo Cafaro, Catiuscia Melle, and Giovanni Aloisio.
Parallel mining of correlated heavy hitters.
In *International Conference on Computational Science and Its Applications*, pages 627–641. Springer, 2018

Massimo Cafaro, Italo Epicoco, Giovanni Aloisio, and Marco Pulimeno.
Cuda based parallel implementations of space-saving on a gpu.
In *High performance Computing & Simulation (HPCS), 2017 International Conference on*, pages 707–714. IEEE, 2017

Pietro Vecchio, Francesca Mele, Lucio Tommaso De Paolis, Italo Epicoco, Marco Mancini, and Giovanni Aloisio.
Cloud computing and augmented reality for cultural heritage.
In *International Conference on Augmented and Virtual Reality*, pages 51–60. Springer, 2015

Silvia Mocavero, Antonella Nigro, Arianna Resta, Cinzia Rosato, Giacomo Sciolti, Italo Epicoco, and Giovanni Aloisio.
Performance analysis of the cosmo-clm model.
In *High performance Computing & Simulation (HPCS), 2015 International Conference on*, pages 581–588. IEEE, 2015

I. Epicoco, S. Mocavero, F. Macchia, and G. Aloisio.
The roofline model for oceanic climate applications.
In *proc. of the 2014 International Conference on High-Performance Computing & Simulation (HPCS 2014)*, pages 732–737. Waleed W. Smari, 2014

Andrew Porter, Stephen Pickles, Mike Ashworth, Giovanni Aloisio, Italo Epicoco, and Silvia Movavero.
Hybrid strategies for the nemo ocean model on multi-core processors.
11 April 2013 2013

Valerio De Luca, Italo Epicoco, Daniele Lezzi, and Giovanni Aloisio.
Grb-wapi, a restful framework for grid portals.
In H. Ali, Y. Shi, D. Khazanchi, M. Lees, G. Dick van Albada, P. M.A. Sloot, and J. Dongarra, editors, *Proceeding of International Conference on Computational Science, ICCS 2012*, volume 9, pages 459–468, Amsterdam, 6 2012 2012. ELSEVIER SCIENCE LTD

Italo Epicoco, Maria Mirto, Silvia Mocavero, and Giovanni Aloisio.
Prototype of grid environment for earth system models.
In Waleed W. Smari, editor, *Proceedings of the 2012 International Conference on High performance Computing & Simulation (HPCS 2012)*, pages 18–24, Piscataway, 6, 2012 2012. IEEE HPCS - The Printing House, Inc

Italo Epicoco and Silvia Mocavero.
The performance model of an enhanced parallel algorithm for the sor method.
In Beniamino Murgante, Osvaldo Gervasi, Sanjay Misra, Nadia Nedjah, Ana Maria A.C. Rocha, David Taniar, and Bernady O. Apduhan, editors, *Proceeding of Computational Science and Its Applications - ICCSA 2012 (part I)*, volume 7333/2012, pages 44–56, HEIDELBERG, 21 June 2012 2012. SPRINGER-VERLAG

I. Epicoco, S. Mocavero, and G. Aloisio.
The nemo oceanic model: Computational performance analysis and optimization.
In *Proceedings of the 2011 IEEE International Conference on High-Performance Computing and Communications*, pages 382–388, New York, 4, 2011 2011. IEEE Computer Society Press

I. Epicoco, S. Mocavero, and G. Aloisio.
A performance evaluation method for climate coupled models.
In M. Sato, S. Matsuoka, P. M. Sloot, G. D. van Albada, and J. Dongarra, editors, *Proceedings of the International Conference on Computational Science, ICCS 2011*, volume Vol. 4, pages 1526–1534, Amsterdam, 3, 2011 2011. Elsevier B.V

De Luca V., Epicoco I., Lezzi D., and Aloisio G.
A web api framework for developing grid portals.
In M. Sato, S. Matsuoka, P. M. Sloot, G. D. van Albada, and J. Dongarra, editors, *Proceedings of the International Conference on Computational Science, ICCS 2011*, volume Vol. 4, pages 392–401, Amsterdam, 3, 2011 2011. Elsevier B.V

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The nemo oceanic model: Improvement of scalability on marenostrum.
In S. Monfardini, editor, *Science and Supercomputing in Europe - research highlights 2010*, pages 103–103, Bologna, 9 2011 2011. CINECA

I. Epicoco, S. Mocavero, and G. Aloisio.
Nemo oceanic model optimization.
In S. Monfardini, editor, *Science and Supercomputing in Europe - research highlights 2010*, pages 98–98, Bologna, 9 2011 2011. CINECA Consorzio Interuniversitario

I. Epicoco, S. Mocavero, and G. Aloisio.
Experience on the parallelization of the oasis3 coupler.
In J. Chen and R. Ranjan, editors, *Proceeding AusPDC '10 Proceedings of the Eighth Australasian Symposium on Parallel and Distributed Computing*, volume 107, pages 51–60, Sydney, 22, 2010 2010. Australian Computer Society

M. Mirto, M. Passante, I. Epicoco, and G. Aloisio.
A grid problem solving environment for bioinformatics: the libi experience.
In *Proceeding of the 22nd IEEE International Symposium on Computer-Based Medical Systems*, pages 1–7, New York, 5 2009 2009. IEEE

P. Beraldi, L. Grandinetti, A. Violi, and I. Epicoco.
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In W. Gentzsch, L. Grandinetti, and G. Joubert, editors, *High Speed and Large Scale Scientific Computing - Advances in Parallel Computing*, volume 18, pages 380–395, Amsterdam, July 4, 2008 2009. IOS Press

M. MIRTO, M. CAFARO, I. EPICOCO, and G. ALOISIO.
Advances in the progengrid workflow management system.
In *IEEE Proceedings of the 1st International Workshop on High performance Data Grid (HPDataGrid'08)*, pages 538–543, New York, 4 December 2008 2008. IEEE

M. Mirto, S. Vicario, D. Tartarini, I. Epicoco, C. Saccone, and G. Aloisio.
Bayesian phylogenetic inference in the libi grid platform: a tool to explore large data sets.
In *IEEE Proceedings of the International Symposium on Parallel and Distributed Processing and Applications (ISPA 2008)*, pages 855–860, Washington, DC, 12, 2008 2008. IEEE Computer Society Press

M. CAFARO, I. EPICOCO, M. MIRTO, D. LEZZI, and G. ALOISIO.
The grid resource broker workflow engine.
In *The 6th International Conference on Grid and Cooperative Computing*, pages 725–732, Piscataway, NJ 08854-4141 USA, 18, 2006 2007. IEEE

Mirto M, Rossi I, Epicoco I, Fiore S, Fariselli P, Casadio R, and Aloisio G.
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G. ALOISIO, CAFARO M, EPICOCO I, FIORE S, and MIRTO M.
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In N. Jacq, H. Müller, I. Blanquer, Y. Legré, V. Breton, D. Hausser, V. Hernández, T. Solomonides, and M. Hofmann-Apitius, editors, *Studies in Health Technology and Informatics - Proceedings of HealthGrid 2007*, volume 126, pages 174–183, Amsterdam, 27, 2007 2007. IOS Press

G. ALOISIO, M. CAFARO, I. EPICOCO, S. FIORE, and M. MIRTO.
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In *Grid-Enabling Legacy Applications and Supporting End Users Workshop (GELA) in conjunction with IEEE Symposium on HPDC 2006*, pages 77–85, Piscataway, NJ 08854-4141 USA, 23, 2006 2006. IEEE

G. Aloisio, D. Conte, C. Elefante, I. Epicoco, G. P. Marra, and G. Quarta.
Sensorml for grid sensor networks.
In H. R. Arabnia, editor, *Proceedings of the 2006 International Conference on Grid Computing & Applications, GCA 2006*, pages 147–152, Las Vegas, 29, 2006 2006. CSREA Press

G. ALOISIO, BLASI E, EPICOCO I, and MOCAVERO S.
Industrial problem optimization in a grid environment.
In *Grid-Enabling Legacy Applications and Supporting End Users Workshop (GELA) in conjunction with IEEE*, pages 102–109, New York, 2006. IEEE

G. ALOISIO, M. CAFARO, I. EPICOCO, S. FIORE, and M. TANA.
Gridsat architecture: a step further towards security and efficiency.
In *PDCN'06 Proceedings of the 24th IASTED international conference on Parallel and distributed computing and networks*, pages 1–6, Anaheim, CA, USA, 2006. ACTA Press

G. ALOISIO, M. CAFARO, G. CARTENI, I. EPICOCO, G. QUARTA, and S. RAOLIL.
Gridflow for earth observation data processing.
In *The 2005 International Conference on Grid Computing and Applications (GCA'05)*, pages 168–174, NA, 23, 2005 2005. CSREA Press

G. ALOISIO, M. CAFARO, I. EPICOCO, S. FIORE, D. LEZZI, M. MIRTO, and S. MOCAVERO.
Resource and service discovery in the igrid information service.
In Gervasi O, Gavrilova ML, Kumar V, Lagana A, Lee HP, Mun Y, Taniar D, and Tan CJK, editors, *Computational Science and its Applications - ICCSA 2005, PT 3*, volume 3482, pages 1–9, Berlin, Heidelberg, 12, 2005 2005. Springer-Verlag

G. ALOISIO, M. CAFARO, D. CONTE, S. FIORE, I. EPICOCO, G.P. MARRA, and G. QUARTA.
A grid-enabled web map server.
In *Proceedings of Information Technology Coding and Computing (ITCC 2005)*, volume I, pages 298–303, New York, 6, 2005 2005. IEEE

G. ALOISIO, M. CAFARO, I. EPICOCO, SANDRO FIORE, and MARIA MIRTO.
A semantic grid-based data access and integration service for bioinformatics.
In *Electronic Proceedings in CD-ROM of the 5th IEEE International Symposium on Cluster Computing and the Grid (CCGRID 2005)*, volume 1, pages 196–203, Piscataway, NJ 08854-4141 USA, 12, 2005 2005. IEEE

G. ALOISIO, M. CAFARO, I. EPICOCO, and G. QUARTA.
Teaching high performance computing parallelizing a real computational science application.
In VS Sunderam, GD VanAlbada, PMA Sloot, and JJ Dongarra, editors, *Proceedings of Computational Science – ICCS 2005: 5th International Conference*, volume 3515, pages 10–17, Berlin, Heidelberg, 25, 2005 2005. Springer-Verlag

G. ALOISIO, M. CAFARO, I. EPICOCO, D. LEZZI, and R. VAN ENGELEN.
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G. ALOISIO, M. CAFARO, I. EPICOCO, S. FIORE, D. LEZZI, M. MIRTO, and S. MOCAVERO.
igrid, a novel grid information service.
In Sloot P.M.A., Hoekstra A.G., Priol T., Reinefeld A., and Bubak M., editors, *Advances in Grid Computing - EGC 2005*, volume 3470, pages 506–515, Berlin, 16, 2005 2005. SPRINGER-VERLAG

G. ALOISIO, E. BLASI, M. CAFARO, I. EPICOCO, S. FIORE, and S. MOCAVERO.
A grid environment for diesel engine chamber optimization.
In *Proceedings of Parallel Computing: Software Technology, Algorithms, Architectures and Applications, PARCO 2003*, volume 13, pages 599–607, Amsterdam, 5, 2003 2004. Elsevier

G. ALOISIO, E. BLASI, M. CAFARO, I. EPICOCO, S. FIORE, and M. MIRTO.
Dynamic grid catalog information service.
In *Proceedings of Grid Computing, First European Across Grids Conference*, volume 2970, pages 198–205, Berlino, 2004. Springer-Verlag

G. ALOISIO, M. CAFARO, I. EPICOCO, and G. QUARTA.
A problem-solving environment for remote sensing data processing.
In Srimani P.K., Abraham A., Cannataro M., Domingo-Ferrer J., and Hashemi R., editors, *Information Technology: Coding and Computing Proceedings. ITCC 2004*, volume II, pages 56–61, New York, 7, 2004 2004. IEEE Computer Society Press

G. ALOISIO, CAFARO M., EPICOCO I., and QUARTA G.
Information management for grid-based remote sensing problem solving environment.
In *Proceedings of the International Conference on Parallel and Distributed Processing Techniques and Applications, PDPTA '04*, volume 2, pages 887–893, Las Vegas, 24, 2004 2004. CSREA Press

G. ALOISIO, M. CAFARO, I. EPICOCO, D. LEZZI, M. MIRTO, and S. MOCAVERO.
The design and implementation of the gridlab information service.
In *Grid and Cooperative Computing (GCC 2003)*, volume 3032, pages 131–138, Heidelberg, 10, 2003 2003. Springer-Verlag

G. ALOISIO, M. CAFARO, and I. EPICOCO.
Sara, a web based remote sensing digital library.
In *Electronic Proceedings of IEEE International Parallel and Distributed Processing Symposium 2002*, pages 220–227, Washington, DC, 19, 2002 2002. IEEE

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In *Proceedings of High-Performance Computing and Networking, 9th International Conference, HPCN Europe 2001*, volume 2110, pages 133–139, Berlino, 27, 2001 2001. Springer-Verlag

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Automatic vhdl restructuring for rtl synthesis optimization and testability improvement.
In *Proceedings of International Conference on Computer Design: VLSI in Computers and Processors, 1998. ICCD '98.*, pages 436–441, New York, 7 1998 1998. IEEE

D.CORVINO, I. EPICOCO, F. FERRANDI, F. FUMMI, and D. SCIUTO.
Controller and data-path separation by vhdl restructuring.
In *Proceedings of Forum on Design Languages – FDL98*, pages 237–243, Lausanne, 11 1998 1998

Book Chapters

Massimo Cafaro, Italo Epicoco, and Marco Pulimeno.
Techniques for designing bioinformatics algorithms.
2016

Massimo Cafaro, Italo Epicoco, and Marco Pulimeno.
Data mining: Mining frequent patterns, associations rules, and correlations.
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