

CURRICULUM VITAE

STEFANO COZZINI

Dettagli Personali

Data e luogo di nascita: 24th April 1966 in Trento (Italy)
Nazionalità: Italiana
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Formazione

PhD in Physics, University of Padova, Italy (1995)
“Laurea” in Physics, University of Trento, Italy (1991)

Posizioni attuali

Tecnologo
CNR/IOM DEMOCRITOS National Simulation Center
c/o SISSA via Bonomea 265

Fondatore ed Amministratore
eXact lab srl, a CNR spin-off company
via Beirut 2/4 34151 Trieste, Italy

Esperienze professionali significative:

2011- 2012: Consultant for UNDP/ UNoPS as e-infrastructure expert for climate data repositories within the AAP (Africa Adaptation Program)

2003- 2012: Consultant for High Performance and Grid Computing at UNESCO/ ICTP, International Center of Theoretical Physics

1999-2002 INFN Development scientist at SISSA Condensed Matter Group

1997-1998 Member of the HPC group at CINECA

1995-1996 Post-doc researcher at Physics department of the University of Seville (Spain)

Ruolo in progetti attivi a livello nazionale ed internazionale

Coordinator of Joint research activity on “Data-Management for Nanoscience” of the EU- funded project NFFA-EUROPE (2015-2019) (www.nffa.eu)

Coordinator of Joint research activity on “Data-Management for EUSMI project” of the EU- funded project EUSMI (2017-2021) (www.eusmi.eu)

Principal Investigator of the “OpenViewSHIP: Development of a complete computational ecosystem for the hydrodynamic design of the propeller-hull system;” project funded by FVG region (<http://www.ditenave.it/progetti/progetti-in-corso/openviewship>)

eXact-lab responsible for the EU-funded EXANEST (European Exascale System Interconnect and Storage: www.exanest.eu) project.(2015-2018)

Member of the Advisory Board of the EoCoe European project (<http://www.eocoe.eu/>) (2015-2018)

Member of the Advisory Board of the AgInfra European project (2011-2014)

Altre esperienze ed attività di interesse:

Coordinator of the task 4.5 “Design of NFFA Data Repository and access criteria” for the EU funded project NFFA (Nanoscience Foundries and Fine Analysis)

Coordinator of the software activities to provide the high level HPC services with web interfaces and Cloud Computing at CNR/IOM

Coordinator of the ICTP team in charge of the software development of the RegCM-4 package for climate simulations (<http://eforge.escience-lab.org/gf/project/regcm/>) (2010-2012)

Technical coordinator of EU-India Projects (2007-2011)

Developer and developing team coordinator of the GEOtop package

Coordinated the developing team, which contributed to the STORM server for grid data management.(2005-2007)

Attività didattiche e di tutoring :

2014-2016: scientific coordinator of the MHPC, Master in HPC jointly organized by SISSA and ICTP (www.mphc.it)

2016-present: vice-coordinator of MHPC, member of the scientific council of the DSSC (www.dssc.units.it) master program

2017-present: member of the DSSC board
coordinator and teacher of the Foundation in HPC course (9 credits)

2014-2014

Coordinator and teacher of the following course at MHPC:

Computer Architecture for HPC
Data management in HPC and beyond
HPC technologies
Advanced Optimization techniques in HPC

Supervisor of the following students in their MHPC master thesis activities:

Moreno Baricevic (2014/2015)
Stefano Piani (2014/2015)
Rossella Aversa (2015/2016)
Alessia Ando' (2015/2016)
Ivan Girardi (2015/2016)
Giangiacomo Sanna (2016/2017)
Cristiano de Nobili (2016/2017)
Paolo Gorlani (2016/2017)
Piero Coronica (2017/2018)
Luca Ciuffredda (2017/2018)
Elisa Bortoli (2017/2018)

Past teaching activities:

1999-2005: annual course on scientific computing at SISSA for SISSA PhD students

Tutor of the following ICTP-TRIL fellows hosted at CNR Democritos from 2006 to 2011:

- Moses Sokumbi (Nigeria): from 16/01/2006 to 15.11.2007
- Adllan Alwaleed Ahemed (Sudan): dal 23/03/2009 to 22/03/2010
- Mangesh Patil (India): from 16/05/2009 to 15/05/2009
- Dadi Sebsibe Hailemariam (Ethiopia): from 15/09/2009 to 14/11/2009
- Semi Addisu Gezahegn (Ethiopia): from 4/11/2009 to 21/12/2009
- Jimma Tamirar Bekele (Ethiopia): from 14/03/2011 to 22/05/2011

Tutor of following students their master thesis:

- Angelo Leto (university of Torino: 2003)
- Stefano Alberto Russo (university of Trieste: 2008)
- Tyanko Aleksviec (university of Trieste: 2009)
- Riccardo di Meo (university of Trieste: 2010)
- Alberto Chiusole (university of Trento : 2017)
- Andrea Gilardoni (university of Trento: 2018)

Publicazioni scientifiche recenti e rilevanti :

Neural Network for Nanoscience Scanning Electron Microscope Image Recognition,
Mohammad Hadi Modarres, Rossella Aversa, Stefano Cozzini et al, Scientific Reports 7,
13282, October 2017

Metadata for Experiments in Nanoscience Foundries. Bunakov V., Griffin T., Matthews
B., Cozzini S. (2017) In: Kalinichenko L., Kuznetsov S., Manolopoulos Y. (eds) Data
Analytics and Management in Data Intensive Domains. DAMDID/RCDL 2016.
Communications in Computer and Information Science, vol 706. Springer, Cham

*Regional Climate Simulations on EU-INDIA Grid Infrastructures: Methodologies and
Performance* S Cozzini, D Vaddi, S Goel, F De Giorgi, SK Dash
Journal of Grid Computing 12 (2), 303-320

e-Infrastructure for Climate Adaptation Policies: the UNDP/AAP Activities Cozzini
Stefano, Intsiful Joseph, Baricevic Moreno, Diallo Alioune, De Giorgi Francesco
(2013) in IST-Africa 2013 Conference Proceedings, Nairobi, Kenya, 29-31 May 2013

The HPC Testbed of the Italian Grid Infrastructure, R. Alfieri, S. Arezzini, G. B. Barone,
U. Becciani, M. Bencivenni, V. Boccia, D. Bottalico, L. Carracciuolo, D. Cesini, A.
Ciampa, A. Costantini, S. Cozzini, R. De Pietri, M. Drudi, A. Ghiselli, E. Mazzoni, S.
Ottani, A. Venturini, and P. Veronesi, paper accepted at Euromicro International
Conference on Parallel, Distributed and Network-based Processing PDP-2013, IEEE
Computer press, to appear, March 2013

RegCM4: model description and preliminary tests over multiple CORDEX domains,
Giorgi, F., Coppola, E., Solmon, F., Mariotti, L., Sylla, M., Bi, X., Elguindi, N., Diro, G. T.,
Nair, V., Giuliani, G., Cozzini, S., Guettler, I., O'Brien, T. A., Tawfik, A., Shalaby, A., Za-
key, A., Steiner, A., Stordal, F., Sloan, L., and Brankovic, C.: Clim. Rev, 2012. 3439, 3441

ALADYN: a web server for aligning proteins by matching their large-scale motion
R. Potestio, T. Aleksiev, F. Pontiggia, S. Cozzini and C. Micheletti
Nucleic Acids Research 2010 38(Web Server issue):W41-W45; doi:10.1093/nar/gkq293

PiSQRD: a web server for decomposing proteins into quasi-rigid dynamical domains
T. Aleksiev; R. Potestio; F. Pontiggia; S. Cozzini; C. Micheletti
Bioinformatics Vol. 25 no. 20 2009, pages 2743–2744

Simulation of the Indian monsoon using the RegCM3–ROMS regional coupled model
J. Venkata Ratnam, Filippo Giorgi, Akshara Kaginalkar and Stefano Cozzini
Climate Dynamics, 2009, Volume 33, Number 1, Pages 119-139

Recenti invited talks a livello internazionale:

- 29/09/2017: *The NFFA Europe Information and Data Repository Platform* LDSMA invited talk at 6th International LSDMA Symposium on “The Challenge of Big Data in Science”, Karlsruhe, Germany
- 23/09/2015: *HPC as a key-enabling technology*, keynote speech at SOR15, Bled, Slovenja
- 27/05/2015: *Establishing HPC computational environments in industry: a view from inside* invited talk at PraceDay2015, Dublin, Ireland
- 07/05/2014: *Data and Metadata for Nanoscience*. invited talk at “Big Data and Open Data” workshop, Brussels, Belgium
- 28/05/2014: *A Cluster of start-up for innovative services to research and education virtual communities*, invited talk, at COST Actions: A Great Opportunity as Incubators for Molecular Science and Technology, Brussels, Belgium
- 22/05/2013: *e-infrastructure Requirements and Needs for Nano foundries and Fine Analysis (NFFA) scientific community*, invited talk at the e-IRG workshop, Dublin, Ireland
- 28/08/2012: *Which computational infrastructure for Climate Simulation ?*, invited talk at the ECSAC12 conference, Veli Losinj, Croatia.

Attività e Ruoli a livello internazionale :

Member of the Program Committee for:

- Linux Cluster Revolution conference (from 2002 on)
- International Grid Interoperability and Interoperation Workshop 2008
- EGI technical forum (September 2010)
- International Conference on Computational Science and Its Applications (2010/2011)
- Conferencia Latino Americana de Computación de Alto Rendimiento (2007/2009/2010/2011/2013/2014/2015)
- WOPSS (2016/2017)

Virtual Organization manager of the EGRID VO and EUINDIA within EGEE project (2005-2011)

Referee for Journal of Grid Computing and for several other conferences in HPC/GRID.

Lingue :

Lingua madre Italiano

Ottima conoscenza dell'inglese (scritto e parlato)

Ottima conoscenza dello spagnolo parlato. Buona conoscenza dello spagnolo scritto

Trieste , luglio 2018