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Pisa, 01.03.2017

FEDERICO CALZOLARI - Italian, born in Ferrara on December 7th 1970



SCUOLA NORMALE SUPERIORE

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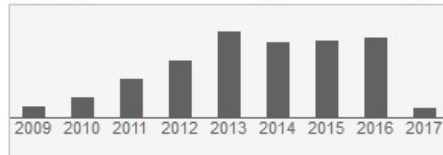
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- **Master's Degree in Physics, PhD in Computer Science Engineering** at the University of Pisa [Italy].
- Head of the **Information and Communication Technology (ICT)** service at **Scuola Normale Superiore** University, Pisa [Italy] - full time permanent position.
- Associate researcher at the **European Organization for Nuclear Research CERN**, Associate technologist at the **Italian National Institute for Nuclear Physics INFN**: High Performance Computing HPC and Distributed GRID Computing systems management.
- Member of the **CERN CMS experiment**, that in 2012 announced the **discovery of the Higgs Boson** - leading to the 2013 Nobel Prize in Physics [link]. High Energy and Particle Physics Prize [2013] from the European Physical Society EPS.
- Author of more than **100** international peer reviewed **scientific publications** and technical reports in Computer Science and High Energy Physics, and co-author of more than 1.000 articles within the CERN CMS collaboration, with more than **50.000 citations**.
- **H-index: 95**, based on **Google Scholar** - <https://scholar.google.com/citations?user=efgwIbUAAAAJ>

Citation indices	All	Since 2012
Citations	52091	40513
h-index	95	82
i10-index	436	377



- Second position in the **Top Italian Scientists** ranking, Computer Sciences area: top cited [H-index > 30] Italian Scientists ranking - <http://www.topitalianscientists.org>
- Qualified by Google as the author of the first **Google Ranking algorithm Exploit**: Google Zeitgeist 2007.
- Quoted by the Italian newspaper **Corriere della Sera** [2009] as one of the "**Twenty Italians who are changing the Italy**": exemplary histories of devotion and expertise that are contributing to change Italy [[Pisa University press release](#)]. A photographic exhibition of the photographer Gianni Giansanti has been dedicated to the event at Palazzo Strozzi, Florence, Italy [2009].
- Information Technology consultant for **IT crimes** at the **District Attorney's office**.

PRESENT POSITIONS

- Since 2013: Head of the Information and Communication Technology (ICT) service at Scuola Normale Superiore University, Pisa [Italy] - full time permanent position.

Responsible for all the ICT infrastructures and systems in terms of design, delivery, maintenance and support:

- Data Center operations: server, storage and software resources, power and cooling systems.
- Network: LAN wired, wireless, VoIP infrastructure. Unified Communication: messaging, voice call, video conference.
- Authentication and Authorization Infrastructure AAI. Google Apps: Email, File sharing, collaboration tools.
- File server and Backup service. Database administration. Business Continuity and Disaster Recovery.
- Web and multisite CMS architecture. Print and scan service. Centralized Desktop management.
- High Performance Computing HPC. Clusters and Distributed GRID architectures.

- Security monitoring and incident response. Remote logging system. Personal data processing and protection.
 - Registration Authority for server and personal certificates.
 - Monitoring: hardware, devices and services. Helpdesk: 1° and 2° level support service.
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OTHER APPOINTMENTS

- Dean's Delegate for the Italian research ultra wideband Network GARR at Scuola Normale Superiore.
 - System Manager of the SNS-PISA Grid node at Scuola Normale Superiore, within the European Grid Infrastructure EGI.
 - System Manager of the INFN-PISA TIER2 Computing Center at the Italian National Institute for Nuclear Physics INFN.
 - System Administrator and Security Officer of the Grid node at the Institute of Information Science and Technologies ISTI, Italian National Research Council CNR.
 - Information Technology consultant for IT crimes at the District Attorney's office.
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SCIENTIFIC AND PROFESSIONAL ROLES

- Associate researcher at the European Organization for Nuclear Research CERN (Geneva) [since 03.2006].
 - Associate technologist at the Italian National Institute for Nuclear Physics INFN [since 04.2006]: High Performance Computing HPC and Distributed GRID Computing systems management.
 - Member of CMS, CERN (Geneva): Compact Muon Solenoid, physics nuclear experiment at LHC (Large Hadron Collider) - <http://cms.cern.ch>
 - Member of CERN-INFN ECGI group: Experiment Computing Grid Integration - <http://infn-ecgi.pi.infn.it/participants.html>
 - Member of INFN MPI group: Parallel Computing.
 - Member of INFN Storage group.
 - Member of INFN Virtualization group.
 - Member of High Energy Physics UniX HEPIX virtualization group - <http://www.hepix.org>
 - Member of ReSIST Network of Excellence: Resilience for Survivability in Information Society Technologies - <http://www.resist-noe.org>
 - Member of INFN CONSTANZA: modular Grid Consistency Service for data and metadata information replicated on a Data Grid.
 - Member of DILIGENT Digital Library Infrastructure on Grid ENabled Technology, project lead by the Institute of Information Science and Technologies ISTI, Italian National Research Council CNR.
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AREAS OF EXPERTISE

- Head of the ICT Department, directly reporting to the CEO, with experience in large IT infrastructures and critical applications: projects analysis, design, implementation and maintenance, technical team management and budget administration.
 - Main areas of expertise: ICT strategic management, Team and projects management, ICT operations, Infrastructure architecture design and build.
 - Technical research interests: High Performance Computing HPC systems, Distributed computing GRID architectures, Load sharing optimization, Virtualization (on-premise and cloud-based) systems with applications to High Availability, Failover, Disaster Recovery.
 - Good experience in laboratory activities and technical work in mechanical, electric, electronic area, with aptitude for team working and leading.
-

AWARDS AND HONORS

- 2017: Second position in the Top Italian Scientists ranking, Computer Sciences area: top cited [H-index > 30] Italian Scientists ranking - <http://www.topitalianscientists.org>
- 2013: High Energy and Particle Physics Prize, from the European Physical Society EPS <http://www.eps.org>, to the CERN ATLAS and CMS collaborations, for the discovery of the Higgs boson, as predicted by the Brout-Englert-Higgs mechanism.
- 2009: Quoted by the Italian newspaper Corriere della Sera [17 JAN 2009] as one of the "Twenty Italians who are changing the Italy": exemplary histories of devotion and expertise that are contributing to change Italy [[Pisa University press release](#)]. A photographic exhibition of the photographer Gianni Giansanti has been dedicated to the event at Palazzo Strozzi, Florence, Italy [13-18 JAN 2009].
- 2007: Google Certificate of Merit for Google Zeitgeist exploit 2007 - Stefano Hesse, Repubblica.it [14 DEC 2007]:

REFEREE

- Referee for **Springer**: Computer Science journals and books - <http://www.springer.com>
- Referee for **Journal of Physics** - <http://www.iop.org/EJ/>

PREVIOUS EXPERIENCES

- 12.2008 - 11.2013: Scuola Normale Superiore, Pisa [Italy] - full time permanent position: High Performance Computing (HPC) System Engineer and System Manager of the SNS-PISA Grid node, within the European Grid Infrastructure EGI project - in collaboration with the European Organization for Nuclear Research CERN, the Italian National Institute for Nuclear Physics INFN and the Italian National Research Council CNR.
 - High Performance Computing HPC architectures; Study of Virtualization systems and High Availability services with application to Backup, Failover, Disaster Recovery; Load sharing optimization in on demand computational clusters in virtual environment.
 - System Manager of the INFN-PISA TIER2 Computing Center at the Italian National Institute for Nuclear Physics INFN: network infrastructure, hardware, storage, Grid computing, services.
 - Administrator and Security Officer of the PPS-SNS Grid node at the Institute of Information Science and Technologies ISTI, Italian National Research Council CNR.
- 03.2006 - 12.2008: Research fellow at the University Scuola Normale Superiore SNS (Pisa, Italy), in collaboration with the Italian National Institute for Nuclear Physics INFN: "GRID Computing applications research and development for particle physics" - Grid, Clustering and Parallel Computing applied to LHC (Large Hadronic Collider) experiments at European Organization for Nuclear Research CERN, Geneva.
- 03.2005 - 02.2006: Research work at Scuola Normale Superiore SNS (Pisa, Italy): research activity related to GRID Computing open source architectures and infrastructures planning, Service development and upgrade of the Scuola Normale GRID node.
- 02.2005 - 02.2005: Research work at the University of Pisa, Italy, Physics Department: research and development for LCH computation.
- 02.2004 - 01.2005: Research work at Scuola Normale Superiore SNS (Pisa, Italy): research activity related to testing e implementation of a GRID node at Scuola Normale.
- 03.2002 - 12.2003: 03.2002 - 12.2003: Research fellow at the Italian National Research Council CNR, Computational Linguistics Institute ILC (Pisa, Italy): software manager of Digital Funds and Archives FAD project, Digital Library development, Text and Data Mining, Information Retrieval, automatic language treatment, textual analysis methods for non supervised learning.
- 12.2000 - 09.2001: Technical telecommunications area manager of Phonica Spa, Italy, national telephone operator: software planning and development for SS7 and ISDN telephone exchange, test for devices approval at Italian Telecommunications Ministry.
- 09.1998 - 06.2000: Computer science analyst at Casse del Tirreno Bank, Lucca, Italy. Mainframe IBM MVS: CICS, DB2/SQL, DLI. Bank information system conversion for Euro and Year 2000. Migration of the information system of Cassa di Risparmio di Lucca to an unified information system. Web application for Home Banking planning and development.
- 09.1997 - 06.1998: Computer analyst programmer at SIOR, Varese, Italy. Information system migration for hardware platform change. Analysis and development of software to correct Y2K Bug (Millennium Bug). Responsible for the automatic programming languages translation project. DLI to DB2 data base migration.
- 07.1997 - 07.1997: Computer programmer at SysDat Informatica, Pisa, Italy: Software development in business environment.
- 04.1996 - 02.1997: Officer of the Italian Army, 163° A.U.C. course, in 1996-97, second Lieutenant rank in Artillery Arm: section commanding Officer.

EDUCATION

- 2009: PhD in Computer Science Engineering at University of Pisa, Italy, with thesis "High availability using virtualization".
- 1995: Master's Degree in Physics from the University of Pisa [Italy], final mark 105/110. Thesis at the Italian National Institute for Nuclear Physics INFN laboratory, in collaboration with the European Organization for Nuclear Research CERN, Geneva: "CP Violation and K0 decays revelation: study and simulation of neutral Trigger in NA48 experiment"; Montecarlo simulation of subnuclear particles decays, Investigation of low-noise electronic devices for high-frequency signals analysis and processing.
- Four Grant from the Italian National Research Council CNR during the University studies.
- 1989: Graduated from the Classical High School in Pisa in 1989, mark 50/60.

- Grant from IBM during the Classical High School studies.

MILITARY SERVICE

- Officer of the Italian Army, 163° A.U.C. course, in 1996-97, second Lieutenant rank in Artillery Arm: section commanding Officer.

FOREIGN LANGUAGES

- Italian: native.
- English: advanced level knowledge certificate, University of Pisa [Italy], Interdepartmental Linguistics Center [2003]; academic writing level C1, University of Pisa [Italy], Interdepartmental Linguistics Center [2008]; level C1 certificate, University of Pisa [Italy], Interdepartmental Linguistics Center [2010].
- French: fluent.
- Spanish: basic.

INFORMATION TECHNOLOGY

- Architectures: PC x86, MainFrame IBM, RISC, AS/400, GPU.
- Operating systems: Linux, Windows, Mac OS X, AIX-Unix, DOS, MVS, OS/400, (OS/2).
- Programming Languages: C(++), CUDA, CoBOL CICS, Fortran, PL/1, Pascal, Earl, EasyTrieve, Rexx.
- Expert of programming and numeric simulation on parallel processors, distributed cluster and Grid computing architecture.
- Scripting Languages: Bash Shell, Python, (Perl).
- Linux System Administration: Web Server, Mail Server, File Server, PXE, DHCP, DNS, LDAP.
- Network management: Switch, Router, Firewall and related tools; Network monitoring.
- Distributed Computing Queuing systems: PBS, LSF, SGE.
- High performance and Low latency InfiniBand network in High Performance Computing HPC environments.
- Cloud Computing: provisioning of on demand services, servers, computational clusters in virtual environment.
- Virtual Desktop Infrastructure VDI.
- DataBase VSAM, DLI, DB2, MySQL. SQL language. Analysis and data elaboration EDP.
- Virtualization technologies: VMware, Xen, KVM, OpenVZ, Microsoft Hyper-V.
- Storage: management of distributed storage systems NFS, GPFS over FibreChannel, iSCSI, Ethernet.
- Network and Parallel FileSystem: NFS, AFS, GPFS.
- Storage Resource Management SRM systems and tools.
- Backup and Disaster Recovery systems.
- High Availability services: clusters, Failover, Load Balancer.
- Data Redundancy in Storage Area Network SAN with FibreChannel multi-path.
- Authentication and Authorization Infrastructure AAI.
- Single Sign On SSO in mixed and interoperating Linux/Windows environment: LDAP, Active Directory.
- Remote logging system.
- Web based technologies: HTML, XML DOM, PHP, JavaScript, AJAX.
- Network protocols: TCP/IP, ARP, FTP, HTTP, SSL, E-mail.
- Productivity software: Microsoft Office, Word Processor LaTeX.
- Scientific software: Root, MathCAD.

TELECOMMUNICATIONS

- Unified Communication: instant messaging, voice call, video conference.
- Telecommunications protocols: SS7, ISDN, VoIP, SIP.
- Good knowledge of telephone exchange for national and international networks, telephonic router and switch.

TRAINING COURSES

- GPU programming with CUDA, CASPUR, 01.2011.
- GRID, INFN Torino, 01.2005 - GRID Computing: Access and authentication, Job Description Language JDL, Job submission, Data management.
- LINUX System Administration, Informex, INFN Pisa, 04.2005 - Linux administration: Installation, Kernel and modules, Filesystem, Shell script, Processes, Users and groups, Access and authentication, LDAP, Scheduled operations.
- LINUX Network and Security, Informex, INFN Pisa, 06.2005 - Network: configuration, services DNS DHCP FTP Samba Web Mail, Routing rules - Security: Firewall, Authentication and access control, Certificates, PGP encryption, System monitoring, SSH, Auditing tools: scanner, sniffer, vulnerability analysis.
- ENGLISH, Advanced level knowledge certificate, University of Pisa [Italy], Interdepartmental Linguistics Center, 2003 - English: grammar, listening, speaking, reading, writing. Academic communications.

OTHER APPOINTMENTS

- Driving license: A [motorcycles], B [cars].
- [since 1989] AVIS Italy blood donor.
- [since 1989] Member of the Italian Civil Protection.
- [1989] First Aid certification from the Italian Red Cross CRI.
- [2003] Sea Rescue Lifeguard international license.
- [2009] Fire control training course - Italian D.M. 10.03.1998
- [2013] Basic Life Support Defibrillation BLS-D certification.
- Voluntary work at Caritas Soup Kitchen.
- Voluntary work at the University of the Third Age UniDeA, Pisa: Computer Sciences and Physics teacher.

LIST OF PUBLICATIONS, QUALIFICATIONS, DOCUMENTS

Publications: <https://sites.google.com/site/federicocalzolari/curriculum/publications>

Citations: <https://scholar.google.com/citations?user=efgwIbUAAAAJ>

PUBLICATIONS

1. F. Calzolari, ATLAS, CMS and LHCb collaborations [2016]: "Top Quark Results", **Proceedings of Science (SISSA)** PoS(DIS2016)010, pp. 14
2. F. Calzolari, CMS collaboration [2016]: "Trapping in proton irradiated p+-n-n+ silicon sensors at fluences anticipated at the HL-LHC outer tracker", **Journal of Instrumentation** 2016 JINST 11 P04023, pp. 18
3. F. Calzolari, CMS collaboration [2014]: "Description and performance of track and primary-vertex reconstruction with the CMS tracker", **Journal of Instrumentation** 2014 JINST 9 P10009, pp. 82
4. F. Calzolari, CMS collaboration [2014]: "Alignment of the CMS tracker with LHC and cosmic ray data", **Journal of Instrumentation** 2014 JINST 9 P06009, pp. 56
5. F. Calzolari, CMS collaboration [2012]: "A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider", **Science** 338 1569, pp. 7 - <http://dx.doi.org/10.1126/science.1230816>
6. F. Calzolari, CMS collaboration [2012]: "Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC", **Physics Letters B** 716 2012 30-61, pp. 32 - <http://dx.doi.org/10.1016/j.physletb.2012.08.021>
7. F. Calzolari, S. Volpe [2011]: "A new job migration algorithm to improve data center efficiency", **Proceedings of Science by SISSA** PoS(ISGC 2011 & OGF 31)008, pp. 7
8. F. Calzolari, D. Licari [2011]: "Proxy dynamic delegation in grid gateway", **Proceedings of Science by SISSA** PoS(ISGC 2011 & OGF 31)027, pp. 7
9. D. Licari, F. Calzolari [2011]: "The Anatomy of a Grid portal", **Journal of Physics: Conference Series** 2011 JPCS 331 072043, pp. 6
10. F. Calzolari, S. Volpe [2011]: "Increasing cluster computing performance through a dynamic load rearrangement", **European Grid Infrastructure User Forum EGI** 2011 proceedings, Vilnius [Lithuania], pp. 2
11. D. Licari, F. Calzolari [2011]: "A Grid gateway for the EGI infrastructure", **European Grid Infrastructure User Forum EGI** 2011 proceedings, Vilnius [Lithuania], pp. 2

12. F. Calzolari, S. Volpe [2011]: "A new job migration algorithm to improve data center efficiency", **International Symposium on Grids and Clouds ISGC 2011** proceedings, Academia Sinica, Taipei [Taiwan], pp. 2
13. D. Licari, F. Calzolari [2011]: "Proxy dynamic delegation in Grid gateway", **International Symposium on Grids and Clouds ISGC 2011** proceedings, Academia Sinica, Taipei [Taiwan], pp. 2
14. D. Licari, F. Calzolari [2010]: "Access Grid via Web", **High Energy Physics Unix HEPiX** Fall 2010 proceedings, Cornell University, Ithaca NY [USA], pp. 2
15. D. Licari, F. Calzolari [2010]: "L-GRID: A Light portal to access Grid via Web", **Computing in High Energy and Nuclear Physics CHEP 2010** (Distributed Processing and Analysis) proceedings, Academia Sinica, Taipei [Taiwan], pp. 1
16. F. Calzolari, et al. [2010]: "High availability using virtualization", **Journal of Physics: Conference Series** 2010 JPCS 219 052017, pp. 10
17. F. Calzolari, CMS collaboration [2010]: "Performance of CMS muon reconstruction in cosmic-ray events", **Journal of Instrumentation** 2010 JINST 5 T03022, pp. 48
18. F. Calzolari, CMS collaboration [2010]: "Precise mapping of the magnetic field in the CMS barrel yoke using cosmic rays", **Journal of Instrumentation** 2010 JINST 5 T03021, pp. 37
19. F. Calzolari, CMS collaboration [2010]: "Alignment of the CMS muon system with cosmic-ray and beam-halo muons", **Journal of Instrumentation** 2010 JINST 5 T03020, pp. 42
20. F. Calzolari, CMS collaboration [2010]: "Aligning the CMS muon chambers with the muon alignment system during an extended cosmic ray run", **Journal of Instrumentation** 2010 JINST 5 T03019, pp. 35
21. F. Calzolari, CMS collaboration [2010]: "Performance of the CMS cathode strip chambers with cosmic rays", **Journal of Instrumentation** 2010 JINST 5 T03018, pp. 40
22. F. Calzolari, CMS collaboration [2010]: "Performance study of the CMS barrel resistive plate chambers with cosmic rays", **Journal of Instrumentation** 2010 JINST 5 T03017, pp. 33
23. F. Calzolari, CMS collaboration [2010]: "Calibration of the CMS drift tube chambers and measurement of the drift velocity with cosmic rays", **Journal of Instrumentation** 2010 JINST 5 T03016, pp. 39
24. F. Calzolari, CMS collaboration [2010]: "Performance of the CMS drift tube chambers with cosmic rays", **Journal of Instrumentation** 2010 JINST 5 T03015, pp. 47
25. F. Calzolari, CMS collaboration [2010]: "Identification and filtering of uncharacteristic noise in the CMS hadron calorimeter", **Journal of Instrumentation** 2010 JINST 5 T03014, pp. 31
26. F. Calzolari, CMS collaboration [2010]: "Performance of CMS hadron calorimeter timing and synchronization using test beam, cosmic ray, and LHC beam data", **Journal of Instrumentation** 2010 JINST 5 T03013, pp. 31
27. F. Calzolari, CMS collaboration [2010]: "Performance of the CMS hadron calorimeter with cosmic ray muons and LHC beam data", **Journal of Instrumentation** 2010 JINST 5 T03012, pp. 35
28. F. Calzolari, CMS collaboration [2010]: "Time reconstruction and performance of the CMS electromagnetic calorimeter", **Journal of Instrumentation** 2010 JINST 5 T03011, pp. 27
29. F. Calzolari, CMS collaboration [2010]: "Performance and operation of the CMS electromagnetic calorimeter", **Journal of Instrumentation** 2010 JINST 5 T03010, pp. 41
30. F. Calzolari, CMS collaboration [2010]: "Alignment of the CMS silicon tracker during commissioning with cosmic rays", **Journal of Instrumentation** 2010 JINST 5 T03009, pp. 41
31. F. Calzolari, CMS collaboration [2010]: "Commissioning and performance of the CMS silicon strip tracker with cosmic ray muons", **Journal of Instrumentation** 2010 JINST 5 T03008, pp. 46
32. F. Calzolari, CMS collaboration [2010]: "Commissioning and performance of the CMS pixel tracker with cosmic ray muons", **Journal of Instrumentation** 2010 JINST 5 T03007, pp. 38
33. F. Calzolari, CMS collaboration [2010]: "CMS data processing workflows during an extended cosmic ray run", **Journal of Instrumentation** 2010 JINST 5 T03006, pp. 44
34. F. Calzolari, CMS collaboration [2010]: "Commissioning of the CMS High-Level Trigger with cosmic rays", **Journal of Instrumentation** 2010 JINST 5 T03005, pp. 33
35. F. Calzolari, CMS collaboration [2010]: "Fine synchronization of the CMS muon drift-tube local trigger using cosmic rays", **Journal of Instrumentation** 2010 JINST 5 T03004, pp. 33
36. F. Calzolari, CMS collaboration [2010]: "Performance of the CMS drift-tube chamber local trigger with cosmic rays", **Journal of Instrumentation** 2010 JINST 5 T03003, pp. 34
37. F. Calzolari, CMS collaboration [2010]: "Performance of the CMS Level-1 trigger during commissioning with cosmic ray muons and LHC beams", **Journal of Instrumentation** 2010 JINST 5 T03002, pp. 52
38. F. Calzolari, CMS collaboration [2010]: "Commissioning of the CMS experiment and the cosmic run at four tesla",

39. F. Calzolari, CMS collaboration [2010]: "Measurement of the muon stopping power in lead tungstate", **Journal of Instrumentation** 2010 JINST 5 P03007, pp. 32
40. F. Calzolari, CMS collaboration [2009]: "Alignment of the CMS silicon strip tracker during stand-alone commissioning", **Journal of Instrumentation** 2009 JINST 4 T07001, pp. 39
41. F. Calzolari, CMS collaboration [2009]: "Performance studies of the CMS Strip Tracker before installation", **Journal of Instrumentation** 2009 JINST 4 P06009, pp. 48
42. F. Calzolari, CMS collaboration [2009]: "Stand-alone cosmic muon reconstruction before installation of the CMS silicon strip tracker", **Journal of Instrumentation** 2009 JINST 4 P05004, pp. 41
43. F. Calzolari [2009]: "Virtualization for high availability", **High Energy Physics Unix HEPiX** Spring 2009 proceedings, Umea University [Sweden], pp. 1
44. F. Calzolari [2009]: "High availability using virtualization", **Computing in High Energy and Nuclear Physics CHEP** 2009 (Hardware and Computing Fabrics) proceedings, Prague [Czech Republic], pp. 1
45. F. Calzolari [2009]: "A new approach to High Availability", **Enabling Grids for E-science EGEE, Open Grid Forum OGF** - 4th EGEE User Forum/OGF 25 and OGF Europe's 2nd International Event proceedings, Catania [Italy], pp. 1
46. F. Calzolari, CMS collaboration [2008]: "The CMS experiment at the CERN LHC", **Journal of Instrumentation** 2008 JINST 3 S08004, pp. 361
47. F. Calzolari [2008]: "Open issues in storage management", **Advances in Computer Systems and Networks** 2008 proceedings, 45, Computer Science Engineering, University of Pisa [Italy], pp. 1
48. F. Calzolari, CMS collaboration [2007]: "CMS Physics Technical Design Report: Addendum on High Density QCD with Heavy Ions", **Journal of Physics G: Nuclear and Particle Physics** 34 2307, pp. 149
49. F. Calzolari [2007]: "High availability service using virtualization", **Advances in Computer Systems and Networks** 2007 proceedings, 48, Computer Science Engineering, University of Pisa [Italy], pp. 1
50. A. Fanfani, F. Calzolari, et al. [2007]: "CMS Data and Workflow Management System", **Astroparticle, Particle and Space Physics, Detectors and Medical Physics Applications** 4 2008, proceedings of the 10th Conference, 441-445, Como [Italy], pp. 5
51. D. Bonacorsi, F. Calzolari, et al. [2007]: "CMS CSA06 experience at INFN", **Computing in High Energy and Nuclear Physics CHEP** 2007 (Distributed data analysis and information management) proceedings, Victoria [Canada], pp. 2
52. F. Calzolari, CMS collaboration [2007]: "CMS Expression of Interest in the SLHC", **CERN-LHCC-2007-014**, pp. 57
53. F. Calzolari, CMS collaboration [2007]: "The CMS Magnet Test and Cosmic Challenge (MTCC Phase I and II)", **CERN-LHCC-2007-011**, pp. 79
54. F. Calzolari, CMS collaboration [2007]: "CMS Computing, Software and Analysis Challenge in 2006 (CSA06) Summary", **CERN-LHCC-2007-010**, pp. 107
55. F. Calzolari, CMS collaboration [2007]: "CMS Physics Technical Design Report: Addendum on High Density QCD with Heavy Ions", **CERN-LHCC-2007-009**, pp. 172
56. F. Calzolari, CMS collaboration [2007]: "CMS Physics Technical Design Report, Volume 2: Physics Performance", **Journal of Physics G: Nuclear and Particle Physics** 34 995, pp. 585
57. F. Calzolari [2006]: "A High Availability service for Replica Synchronisation in Data Grids", **Advances in Computer Systems and Networks** 2006 proceedings, 41, Computer Science Engineering, University of Pisa [Italy], pp. 1
58. F. Calzolari, et al. [2006]: "Next Generation Language Resources using GRID", **Language Resources and Evaluation Conference LREC** 2006 proceedings, 1858-1861, Genoa [Italy], pp. 4
59. L. Tuura, T. Barrass, D. Bonacorsi, F. Calzolari, et al. [2006]: "PhEEx high-throughput data transfer management system", **Computing in High Energy and Nuclear Physics CHEP** 2006 (Distributed Event production and processing) proceedings, Mumbai [India], pp. 2
60. M. C. Vistoli, L. Gaido, F. Calzolari, et al. [2006]: "Operations structure for the management, control and support of the INFN-GRID/GRID.IT production infrastructure", **Computing in High Energy and Nuclear Physics CHEP** 2006 (Grid middleware and e-Infrastructure operation) proceedings, Mumbai [India], pp. 3
61. F. Calzolari, CMS collaboration [2006]: "CMS Physics Technical Design Report - Volume 2: Physics Performance", **CERN-LHCC-2006-021**, pp. 673
62. F. Calzolari, CMS collaboration [2006]: "CMS Physics Technical Design Report - Volume 1: Detector Performance and Software", **CERN-LHCC-2006-001**, pp. 548
63. M. Monachini, F. Calzolari, et al. [2004], "Unifying Lexicons in view of a Phonological and Morphological Lexical DB", **Language Resources and Evaluation Conference LREC** 2004 proceedings, M.T. Lino, M.F. Xavier, F. Ferreira, R. Costa (eds.), 1107-1110, Lisbon [Portugal], pp. 4

CERN CMS Physics Analysis Summaries

- CMS collaboration: [>2006]: CERN CMS Physics Analysis Summaries, **1.000 articles** - publications list available @ [CERN Document Server](#)
- CMS collaboration: [>2006]: CERN CMS Physics Analysis Summaries, **1.000 articles** - publications list available @ [INSPIRE HEP](#)

CERN CMS Detector Performance Summaries

- CMS collaboration: [>2006]: CERN CMS Detector Performance Summaries, **200 articles** - publications list available @ [CERN Document Server](#)

THESIS

1. F. Calzolari [2009]: "High availability using virtualization", PhD Thesis in Computer Science Engineering, **University of Pisa** [Italy], pp. 94
2. F. Calzolari [1995]: "CP Violation and K0 decays revelation: study and simulation of neutral Trigger in NA48 experiment", Degree Thesis in Physics, **University of Pisa** [Italy], pp. 70

TECHNICAL REPORTS

1. F. Calzolari, CMS collaboration [2017]: "Simplified likelihood for the re-interpretation of public CMS results", **CERN-CMS-NOTE-2017-001**, pp. 26
2. F. Calzolari, CMS collaboration [2015]: "R&D activities and planning for Phase-II Upgrades", **CERN-RRB-2015-062**, pp. 19
3. F. Calzolari, CMS collaboration [2015]: "CMS Phase II Upgrade Scope Document", **CERN-LHCC-2015-019 LHCC-G-165**, pp. 54
4. F. Calzolari, ATLAS and CMS collaboration [2013]: "Expected pileup values at the HL-LHC", **CERN-CMS-NOTE-2013-003**, pp. 7
5. F. Calzolari, CMS collaboration [2013]: "Projected Performance of an Upgraded CMS Detector at the LHC and HL-LHC: Contribution to the Snowmass Process", **CERN-CMS-NOTE-2013-002**, pp. 47
6. F. Calzolari, CMS collaboration [2012]: "CMS at the High-Energy Frontier. Contribution to the Update of the European Strategy for Particle Physics", **CERN-CMS-NOTE-2012-006**, pp. 18
7. F. Calzolari, CMS collaboration [2012]: "Projection of ICHEP Results to 30/fb at 8 TeV", **CERN-CMS-NOTE-2012-004**, pp. 15
8. F. Calzolari, CMS collaboration [2011]: "Technical proposal for the upgrade of the CMS detector through 2020", **CERN-LHCC-2011-006 LHCC-P-004**, pp.321
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TEACHING ACTIVITIES, SEMINARS

1. Bachelor and Master Thesis Supervisor in Computer Science and Engineering at the University of Pisa [Italy]
2. F. Calzolari [2016]: "Human Resources Management", University of Pisa [Italy]
3. F. Calzolari [2014]: "Cross Cultural Management", University of Pisa [Italy]
4. F. Calzolari [2008]: "How to reach the top of Google ranking", University of Pisa [Italy]
5. F. Calzolari [2008]: "GRID for e-science", University of Pisa [Italy]
6. F. Calzolari [2008]: "Google exploit: How to hack Google", University of Ferrara [Italy]
7. F. Calzolari [2008]: "GRID and distributed computing", University of Ferrara [Italy]
8. F. Calzolari [2007]: "GRID Course: How to use Grid resources", INFN - Scuola Normale Superiore, Pisa [Italy]
9. F. Calzolari [2003]: "Information retrieval and text indexing", PhD in Text Science, University of Siena [Italy]

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