

# Computing Publications with Major Personal Contributions

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September 1, 2020

- N. Smith et al., **Coffea – Columnar Object Framework For Effective Analysis**, in: 2020, arXiv:[2008.12712](#) [cs.DC]
- J. Albrecht et al., **A Roadmap for HEP Software and Computing R&D for the 2020s**, *Comput. Softw. Big Sci.* 3 (2019) 7, doi:[10.1007/s41781-018-0018-8](#), arXiv:[1712.06982](#) [physics.comp-ph]
- M. Cremonesi et al., **Using Big Data Technologies for HEP Analysis**, *EPJ Web Conf.* 214 (2019) 06030, doi:[10.1051/epjconf/201921406030](#), arXiv:[1901.07143](#) [cs.DC]
- D. Lange et al., **CMS Computing Resources: Meeting the Demands of the High-Luminosity LHC Physics Program**, *EPJ Web Conf.* 214 (2019) 03055, doi:[10.1051/epjconf/201921403055](#)
- L. Bauerdick et al., **HEP Software Foundation Community White Paper Working Group - Data Analysis and Interpretation**, (2018), arXiv:[1804.03983](#) [physics.comp-ph]
- M. Bellis et al., **HEP Software Foundation Community White Paper Working Group – Visualization**, (2018), arXiv:[1811.10309](#) [physics.comp-ph]
- D. Berzano et al., **HEP Software Foundation Community White Paper Working Group – Data Organization, Management and Access (DOMA)**, (2018), arXiv:[1812.00761](#) [physics.comp-ph]
- J. Chang et al., **Striped Data Server for Scalable Parallel Data Analysis**, *J. Phys. Conf. Ser.* 1085 (2018) 042035, doi:[10.1088/1742-6596/1085/4/042035](#)
- O. Gutsche et al., **CMS Analysis and Data Reduction with Apache Spark**, *J. Phys. Conf. Ser.* 1085 (2018) 042030, doi:[10.1088/1742-6596/1085/4/042030](#), arXiv:[1711.00375](#) [cs.DC]
- L. Bauerdick et al., **Experience in using commercial clouds in CMS**, *J. Phys. Conf. Ser.* 898 (2017) 052019, doi:[10.1088/1742-6596/898/5/052019](#)
- O. Gutsche, **Dark Matter and Super Symmetry: Exploring and Explaining the Universe with Simulations at the LHC**, in: **Proceedings, Winter Simulation Conference: Simulating Complex Service Systems (WSC 16): Washington, D.C., United States, December 11-14, 2016**, 2017: pp. 4–13, doi:[10.1109/WSC.2016.7822075](#)
- O. Gutsche et al., **Big Data in HEP: A comprehensive use case study**, *J. Phys. Conf. Ser.* 898 (2017) 072012, doi:[10.1088/1742-6596/898/7/072012](#), arXiv:[1703.04171](#) [cs.DC]
- B. Holzman et al., **HEPcloud, a New Paradigm for HEP Facilities: CMS Amazon Web Services Investigation**, *Comput. Softw. Big Sci.* 1 (2017) 1, doi:[10.1007/s41781-017-0001-9](#), arXiv:[1710.00100](#) [cs.DC]
- S. Habib et al., **ASCR/HEP Exascale Requirements Review Report**, (2016), arXiv:[1603.09303](#) [physics.comp-ph]
- A. Apyan et al., **Pooling the resources of the CMS Tier-1 sites**, *J. Phys. Conf. Ser.* 664 (2015) 042056, doi:[10.1088/1742-6596/664/4/042056](#)
- J. Balcas et al., **Using the GlideinWMS System as a Common Resource Provisioning Layer in CMS**, *J. Phys. Conf. Ser.* 664 (2015) 062031, doi:[10.1088/1742-6596/664/6/062031](#)
- J. Balcas et al., **Pushing HTCondor and glideinWMS to 200K+ Jobs in a Global Pool for CMS before Run 2**, *J. Phys. Conf. Ser.* 664 (2015) 062030, doi:[10.1088/1742-6596/664/6/062030](#)
- C. Group et al., **Fermilab Computing at the Intensity Frontier**, *J. Phys. Conf. Ser.* 664 (2015) 032012, doi:[10.1088/1742-6596/664/3/032012](#)
- G. Garzoglio et al., **Diversity in Computing Technologies and Strategies for Dynamic Resource Allocation**, *J. Phys. Conf. Ser.* 664 (2015) 012001, doi:[10.1088/1742-6596/664/1/012001](#)

- T. LeCompte et al., **High Energy Physics Forum for Computational Excellence: Working Group Reports (I. Applications Software II. Software Libraries and Tools III. Systems)**, (2015), arXiv:[1510.08545](#) [[physics.comp-ph](#)]
- J. Adelman et al., **CMS Computing Operations During Run 1**, *J. Phys. Conf. Ser.* 513 (2014) 032040, doi:[10.1088/1742-6596/513/3/032040](#)
- S. Belforte et al., **Evolution of the Pilot Infrastructure of CMS: Towards a Single GlideinWMS Pool**, *J. Phys. Conf. Ser.* 513 (2014) 032041, doi:[10.1088/1742-6596/513/3/032041](#)
- S. Campana et al., **Deployment of a WLCG network monitoring infrastructure based on the perfSONAR-PS technology**, *J. Phys. Conf. Ser.* 513 (2014) 062008, doi:[10.1088/1742-6596/513/6/062008](#)
- I. Dzhunov et al., **Towards a Centralized Grid Speedometer**, *J. Phys. Conf. Ser.* 513 (2014) 032028, doi:[10.1088/1742-6596/513/3/032028](#)
- P. Kreuzer et al., **Opportunistic Resource Usage in CMS**, *J. Phys. Conf. Ser.* 513 (2014) 062028, doi:[10.1088/1742-6596/513/6/062028](#)
- I. Sfiligoi et al., **CMS experience of running glideinWMS in High Availability mode**, *J. Phys. Conf. Ser.* 513 (2014) 032086, doi:[10.1088/1742-6596/513/3/032086](#)
- T. Chwalek et al., **No File Left Behind - Monitoring Transfer Latencies in PhEDEx**, *J. Phys. Conf. Ser.* 396 (2012) 032089, doi:[10.1088/1742-6596/396/3/032089](#)
- E. Fajardo et al., **A New Era for Central Processing and Production in CMS**, *J. Phys. Conf. Ser.* 396 (2012) 042018, doi:[10.1088/1742-6596/396/4/042018](#)
- R. Kaselis et al., **CMS Data Transfer Operations After the First Years of LHC Collisions**, *J. Phys. Conf. Ser.* 396 (2012) 042033, doi:[10.1088/1742-6596/396/4/042033](#)
- J. Molina-Perez et al., **Monitoring Techniques and Alarm Procedures for CMS Services and Sites in WLCG**, *J. Phys. Conf. Ser.* 396 (2012) 042041, doi:[10.1088/1742-6596/396/4/042041](#)
- J. Adelman-McCarthy et al., **CMS distributed computing workflow experience**, *J. Phys. Conf. Ser.* 331 (2011) 072019, doi:[10.1088/1742-6596/331/7/072019](#)
- M. Albert et al., **Experience Building and Operating the CMS Tier-1 Computing Centres**, *J. Phys. Conf. Ser.* 219 (2010) 072035, doi:[10.1088/1742-6596/219/7/072035](#)
- D. Bradley et al., **Use of glide-ins in CMS for production and analysis**, *J. Phys. Conf. Ser.* 219 (2010) 072013, doi:[10.1088/1742-6596/219/7/072013](#)
- O. Gutsche, **Validation of Software Releases for CMS**, *J. Phys. Conf. Ser.* 219 (2010) 042040, doi:[10.1088/1742-6596/219/4/042040](#)
- W. Adam et al., **Stand-alone Cosmic Muon Reconstruction Before Installation of the CMS Silicon Strip Tracker**, *JINST.* 4 (2009) P05004, doi:[10.1088/1748-0221/4/05/P05004](#), arXiv:[0902.1860](#) [[physics.ins-det](#)]
- D. Evans et al., **Large scale job management and experience in recent data challenges within the LHC CMS experiment**, *PoS. ACAT08* (2008) 032, doi:[10.22323/1.070.0032](#)
- O. Gutsche et al., **WLCG scale testing during CMS data challenges**, *J. Phys. Conf. Ser.* 119 (2008) 062033, doi:[10.1088/1742-6596/119/6/062033](#)
- D. Spiga et al., **CRAB: The CMS distributed analysis tool development and design**, *Nucl. Phys. Proc. Suppl.* 177-178 (2008) 267–268, doi:[10.1016/j.nuclphysbps.2007.11.124](#)
- D. Spiga et al., **The CMS Remote Analysis Builder (CRAB)**, *Lect. Notes Comput. Sci.* 4873 (2007) 580–586, doi:[10.1007/978-3-540-77220-0\\_52](#)
- F. Farina et al., **Status and evolution of CRAB**, *PoS. ACAT* (2007) 020, doi:[10.22323/1.050.0020](#)
- O. Kind et al., **A ROOT based client server event display for the ZEUS experiment**, *eConf.* C0303241 (2003) MOLT002, arXiv:[hep-ex/0305095](#) [[hep-ex](#)]

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- Full List of Physics Publications with Major Personal Contributions can be found [here](#).
  - Full List of Publications from all Collaborations and Experiments can be found [here](#).