

# Computing Publications with Major Personal Contributions

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- L. Bauerdick et al., **HEP Software Foundation Community White Paper Working Group - Data Analysis and Interpretation**, (2018), arXiv:[1804.03983](#) [[physics.comp-ph](#)]
- A.A. Alves Jr et al., **A Roadmap for HEP Software and Computing R&D for the 2020s**, (2017), arXiv:[1712.06982](#) [[physics.comp-ph](#)]
- 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](#)
- J. Chang et al., **Striped Data Server for Scalable Parallel Data Analysis**, in: **18th International Workshop on Advanced Computing and Analysis Techniques in Physics Research (ACAT 2017)** Seattle, WA, USA, August 21-25, 2017, 2017. <http://lss.fnal.gov/archive/2018/conf/fermilab-conf-18-016-cd.pdf>
- O. Gutsche et al., **CMS Analysis and Data Reduction with Apache Spark**, in: **18th International Workshop on Advanced Computing and Analysis Techniques in Physics Research (ACAT 2017)** Seattle, WA, USA, August 21-25, 2017, 2017. <http://lss.fnal.gov/archive/2017/conf/fermilab-conf-17-465-cd.pdf>, arXiv:[1711.00375](#) [[cs.DC](#)]
- 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](#)
- S. Cury et al., **Event processing time prediction at the CMS experiment of the Large Hadron Collider**, *J. Phys. Conf. Ser.* 513 (2014) 032023, doi:[10.1088/1742-6596/513/3/032023](#)

- I. Dzhunov et al., **Towards a centralized Grid Speedometer**, *J. Phys. Conf. Ser.* 513 (2014) 032028, doi:[10.1088/1742-6596/513/3/032028](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/10.1088/1748-0221/4/05/P05004), arXiv:[0902.1860](https://arxiv.org/abs/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://arxiv.org/abs/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](#).