

# Publications

As of September 2023, my **h-index is 150**. The following list contains **only my most important publications**. For a **full list** of my publications, see Google Scholar:  
<https://scholar.google.com/citations?user=ZgO3g3QAAAAJ>.

## Artificial Intelligence and Deep Learning

### Journal publications, conference papers, proceedings, others

1. M. Amirian, J. A. Montoya-Zegarra, I. Herzig, P. E. Hotz, L. Lichtensteiger, M. Morf, A. Züst, P. Paysan, I. Peterlik, S. Scheib, R. M. Fuchsli, T. Stadelmann, and F.-P. Schilling, "Mitigation of motion-induced artefacts in Cone Beam Computed Tomography using Deep Convolutional Neural Networks," *Med. Phys.*, 2023. doi: 10.1002/mp.16405
2. J. Weng, M. Reif, R. Chavarriaga, and F.-P. Schilling, "certAlnty: a certification scheme for AI systems," in *Poster presented at ZHAW Datalab Symposium, Winterthur, Switzerland, 2023*. doi: 10.21256/zhaw-27261
3. P. Denzel, E. Gavagnin, and F.-P. Schilling, "Deep learning the SKA: the Square Kilometer Array project," in *Poster presented at ZHAW Datalab Symposium, Winterthur, Switzerland, 2023*. doi: 10.21256/zhaw-27219
4. F.-P. Schilling, D. Flumini, R. M. Fuchsli, E. Gavagnin, A. Geller, S. Quarteroni, and T. Stadelmann, "Foundations of Data Science: A Comprehensive Overview Formed at the 1st International Symposium on the Science of Data Science," *Archives of Data Science, Series A*, vol. 8, no. 2, pp. 1 – 20, 2022. doi: 10.5445/IR/1000146422
5. I. Herzig, P. Paysan, S. Scheib, F.-P. Schilling, J. Montoya, M. Amirian, T. Stadelmann, P. Eggenberger, R. M. Fuchsli, and L. Lichtensteiger, "Deep Learning-Based Simultaneous Multi-Phase Deformable Image Registration of Sparse 4D-CBCT," in *Proceedings of the American Association of Physics in Medicine Annual Meeting (AAPM 2022)*, 2022. doi: 10.21256/zhaw-25181 Washington, DC, USA, July 2022
6. T. Stadelmann and F.-P. Schilling, Eds., *Advances in Deep Neural Networks for Visual Pattern Recognition*. MDPI, 2022, Special issue of J. Imaging (ISSN 2313-433X). [Online]. Available: [https://www.mdpi.com/journal/jimaging/special\\_issues/deep\\_neural\\_network](https://www.mdpi.com/journal/jimaging/special_issues/deep_neural_network)
7. N. Simmler, P. Sager, P. Andermatt, R. Chavarriaga, F.-P. Schilling, M. Rosenthal, and T. Stadelmann, "A survey of un-, weakly-, and semi-supervised learning methods for noisy, missing and partial labels in industrial vision applications," in *8th Swiss Conference on Data Science (SDS)*, 2021. doi: 10.1109/SDS51136.2021.00012 pp. 26–31
8. F.-P. Schilling and T. Stadelmann, Eds., *Artificial Neural Networks in Pattern Recognition*. MDPI, 2020, Special issue of Computers (ISSN 2073-431X). [Online]. Available: [https://www.mdpi.com/journal/computers/special\\_issues/ANNPR2020](https://www.mdpi.com/journal/computers/special_issues/ANNPR2020)
9. L. Tuggener, M. Amirian, F. Benites, P. von Däniken, P. Gupta, F.-P. Schilling, and T. Stadelmann, "Design Patterns for Resource-Constrained Automated Deep-Learning Methods," *AI*, vol. 1, no. 4, pp. 510–538, 2020. doi: 10.3390/ai1040031

10. F.-P. Schilling and T. Stadelmann, Eds., *Artificial neural networks in pattern recognition : Proceedings of the 9th IAPR TC3 workshop, ANNPR 2020, Winterthur, Switzerland, September 2-4, 2020*, vol. Lecture Notes in Computer Science, no. 12294. Springer, 2020. doi: 10.1007/978-3-030-58309-5
11. M. Amirian, L. Tuggener, R. Chavarriaga, Y. P. Satyawan, F.-P. Schilling, F. Schwenker, and T. Stadelmann, "Two to trust: Automl for safe modelling and interpretable deep learning for robustness," *Proc. of the 1st TAILOR Workshop on Trustworthy AI at ECAI 2020*, 2020. doi: 10.21256/zhaw-22061
12. M. Amirian, K. Rombach, L. Tuggener, F.-P. Schilling, and T. Stadelmann, "Efficient deep cnns for cross-modal automated computer vision under time and space constraints," *Proc. of ECML-PKDD 2019, Würzburg*, 2019. doi: 10.21256/zhaw-18357
13. F.-P. Schilling and T. Stadelmann, "Deep Learning in medizinischer Diagnostik und Qualitätskontrolle," *Netzwoche, Special Issue: IT for Health*, 2019. doi: 10.21256/zhaw-20163

## Particle Physics

### Journal Publications

14. S. Chatrchyan *et al.*, "Measurement of the mass difference between top quark and antiquark in pp collisions at  $\sqrt{s} = 8$  TeV," *Phys. Lett. B*, vol. 770, pp. 50–71, 2017. doi: 10.1016/j.physletb.2017.04.028
15. S. Chatrchyan *et al.*, "Evidence for the direct decay of the 125 GeV Higgs boson to fermions," *Nature Phys.*, vol. 10, p. 557, 2014. doi: 10.1038/nphys3005
16. S. Chatrchyan *et al.*, "Search for the standard model Higgs boson produced in association with a W or a Z boson and decaying to bottom quarks," *Phys. Rev.*, vol. D89, p. 012003, 2014. doi: 10.1103/PhysRevD.89.012003
17. S. Chatrchyan *et al.*, "Observation of a new boson with mass near 125 GeV in pp collisions at  $\sqrt{s} = 7$  and 8 TeV," *JHEP*, vol. 1306, p. 081, 2013. doi: 10.1007/JHEP06(2013)081
18. S. Chatrchyan *et al.*, "A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider," *Science*, vol. 338, p. 1569, 2012. doi: 10.1126/science.1230816
19. S. Chatrchyan *et al.*, "Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC," *Phys.Lett.*, vol. B716, pp. 30–61, 2012. doi: 10.1016/j.physletb.2012.08.021
20. F.-P. Schilling, "Top Quark Physics at the LHC: A Review of the First Two Years," *Int. J. Mod. Phys.*, vol. A27, no. 17, p. 1230016, 2012. doi: 10.1142/s0217751x12300165
21. S. Chatrchyan *et al.*, "Measurement of the single-top-quark  $t$ -channel cross section in  $pp$  collisions at  $\sqrt{s} = 7$  TeV," *JHEP*, vol. 1212, p. 035, 2012. doi: 10.1007/JHEP12(2012)035
22. S. Chatrchyan *et al.*, "Inclusive and differential measurements of the  $t\bar{t}$  charge asymmetry in proton-proton collisions at 7 TeV," *Phys.Lett.*, vol. B717, pp. 129–150, 2012. doi: 10.1016/j.physletb.2012.09.028
23. S. Chatrchyan *et al.*, "Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at  $\sqrt{s} = 7$  TeV," *Phys.Lett.*, vol. B709, pp. 28–49, 2012. doi: 10.1016/j.physletb.2012.01.078
24. S. Chatrchyan *et al.*, "Measurement of the  $t\bar{t}$  Production Cross Section in pp Collisions at 7 TeV in Lepton + Jets Events Using b-quark Jet Identification," *Phys.Rev.*, vol. D84, p. 092004, 2011. doi: 10.1103/PhysRevD.84.092004

25. S. Chatrchyan *et al.*, “Measurement of the t-channel single top quark production cross section in pp collisions at  $\sqrt{s} = 7$  TeV,” *Phys.Rev.Lett.*, vol. 107, p. 091802, 2011. doi: 10.1103/PhysRevLett.107.091802
26. S. Chatrchyan *et al.*, “Measurement of the t t-bar production cross section and the top quark mass in the dilepton channel in pp collisions at  $\sqrt{s} = 7$  TeV,” *JHEP*, vol. 07, p. 049, 2011. doi: 10.1007/JHEP07(2011)049
27. S. Chatrchyan *et al.*, “Measurement of the Top-antitop Production Cross Section in pp Collisions at  $\sqrt{s}=7$  TeV using the Kinematic Properties of Events with Leptons and Jets,” *Eur. Phys. J.*, vol. C71, p. 1721, 2011. doi: 10.1140/epjc/s10052-011-1721-3
28. V. Khachatryan *et al.*, “First Measurement of the Cross Section for Top-Quark Pair Production in Proton-Proton Collisions at  $\sqrt{s} = 7$  TeV,” *Phys.Lett.*, vol. B695, pp. 424–443, 2011. doi: 10.1016/j.physletb.2010.11.058
29. S. Chatrchyan *et al.*, “Alignment of the CMS Silicon Tracker during Commissioning with Cosmic Rays,” *JINST*, vol. 5, p. T03009, 2010. doi: 10.1088/1748-0221/5/03/T03009
30. S. Chatrchyan *et al.*, “Alignment of the CMS Silicon Strip Tracker during standalone Commissioning,” *JINST*, vol. 4, p. T07001, 2009. doi: 10.1088/1748-0221/4/07/T07001
31. W. Adam *et al.*, “The CMS tracker operation and performance at the Magnet Test and Cosmic Challenge,” *JINST*, vol. 3, p. P07006, 2008. doi: 10.1088/1748-0221/3/07/P07006
32. R. Adolphi *et al.*, “The CMS experiment at the CERN LHC,” *JINST*, vol. 3, p. S08004, 2008. doi: 10.1088/1748-0221/3/08/S08004
33. G. Bayatian *et al.*, “CMS technical design report, volume II: Physics performance,” *J. Phys.*, vol. G34, pp. 995–1579, 2007. doi: 10.1088/0954-3899/34/6/S01
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38. A. Aktas *et al.*, “Diffractive photoproduction of  $J/\psi$  mesons with large momentum transfer at HERA,” *Phys. Lett.*, vol. B568, pp. 205–218, 2003. doi: 10.1016/j.physletb.2003.06.056
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44. F.-P. Schilling, "Top Quark Studies with the first CMS Data," in *21st Hadron Collider Physics Symposium, Toronto, Canada*, 2010. doi: 10.48550/arXiv.1010.2393 arXiv:1010.2393
45. J. Campbell, J. Huston, P. Nadolsky, F.-P. Schilling, P. Uwer, and J. Weng, "Common Ntuple Output format for NLO Calculations," in *9th Workshop on Physics at TeV Colliders, Les Houches, France*, 2009. doi: 10.48550/arXiv.1003.1241 arXiv:1003.1241
46. F.-P. Schilling, "QCD and Top Quark Physics at the LHC," in *4th Intl. Conference on Physics at the LHC, Split, Croatia*, vol. LHC2008, 2008. doi: 10.22323/1.055.0047 p. 047
47. F.-P. Schilling, "Early Electroweak and Top Quark Physics with CMS," in *15th Intl. Workshop on Deep-Inelastic Scattering and Related Subjects (DIS2007), Munich, Germany*, 2007. doi: 10.3204/proc07-01/61 pp. 447–450
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51. F.-P. Schilling, "Track reconstruction and alignment with the CMS silicon tracker," in *33rd Intl. Conference on High Energy Physics (ICHEP 2006), Moscow, Russia*, 2006. doi: 10.48550/arXiv.physics/0610005 arXiv:physics/0610005
52. L. Barbone *et al.*, "Impact of CMS silicon tracker misalignment on track and vertex reconstruction," in *Workshop on Tracking in High Multiplicity Environments (TIME 2005), Zurich, Switzerland*, vol. A566, 2006. doi: 10.1016/j.nima.2006.05.041 pp. 45–49
53. F.-P. Schilling, "Diffractive DIS cross sections and parton distributions," in *33rd Intl. Conference on High Energy Physics (ICHEP 2006), Moscow, Russia*, 2006. doi: 10.1142/9789812790873.0113
54. F.-P. Schilling, "Prospects for measuring  $B_s \rightarrow \mu\mu$  with the CMS detector," in *10th Intl. Conference on B Physics at Hadron Machines (BEAUTY 2005), Assisi, Italy*, vol. 156, 2006. doi: 10.1016/j.nuclphysbps.2006.03.062 pp. 114–118
55. F.-P. Schilling, "DPDF: A Library for Diffractive Parton Distributions," in *HERA and the LHC: A Workshop on the Implications of HERA for LHC Physics, CERN and DESY, 2004-2005*, 2005. doi: 10.48550/arXiv.hep-ph/0601013 p. 511, arXiv:hep-ph/0601013
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67. CMS Collaboration, "Search for the standard model Higgs boson produced in association with W or Z bosons, and decaying to bottom quarks," Tech. Rep. CMS PAS HIG-12-044, 2012. [Online]. Available: <http://cdsweb.cern.ch/record/1493618>
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72. CMS Collaboration, "Prospects for the first Measurement of the  $t\bar{t}$  Cross Section in the Muon-plus-Jets Channel at  $\sqrt{s} = 10$  TeV with the CMS Detector," Tech. Rep. CMS PAS TOP-09-003, 2009. [Online]. Available: <http://cdsweb.cern.ch/record/1194519>
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74. CMS Collaboration, "Measurement of the Top Quark Pair Production Cross Section with  $L=100/\text{pb}$  in Dileptonic Final States using the CMS Detector," Tech. Rep. CMS PAS TOP-08-002, 2008. [Online]. Available: <http://cdsweb.cern.ch/record/1198688>
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