

# Publications

As of January 2024, 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, D. Barco, I. Herzig, and F.-P. Schilling, "Artifact Reduction in 3D and 4D Cone-beam Computed Tomography Images with Deep Learning - A Review," *IEEE Access*, vol. 12, pp. 10 281–10 295, 2024. doi: 10.1109/ACCESS.2024.3353195
2. P. Denzel, S. Brunner, P.-P. Luley, C. Frischknecht-Gruber, M. U. Reif, F.-P. Schilling, A. Amini, M. Repetto, A. Iranfar, J. Weng, and R. Chavarriaga, "A framework for assessing and certifying explainability of health-oriented AI systems," in *Explainable AI in Medicine Workshop, Lugano, Switzerland, November 2023*, 2023. [Online]. Available: <https://digitalcollection.zhaw.ch/handle/11475/29258>
3. P. Denzel, F.-P. Schilling, and E. Gavagnin, "Map-to-map translation for SKA mock observations and cosmological simulations," in *Hammers & Nails 2023 - Swiss Edition, Ascona, Switzerland, October 2023*, 2023. doi: 10.21256/zhaw-29047
4. 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. Fuchslin, T. Stadelmann, and F.-P. Schilling, "Mitigation of motion-induced artefacts in Cone Beam Computed Tomography using Deep Convolutional Neural Networks," *Med. Phys.*, vol. 50, no. 10, pp. 6228–6242, 2023. doi: 10.1002/mp.16405
5. 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
6. 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
7. F.-P. Schilling, D. Flumini, R. M. Fuchslin, 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
8. I. Herzig, P. Paysan, S. Scheib, F.-P. Schilling, J. Montoya, M. Amirian, T. Stadelmann, P. Eggenberger, R. M. Fuchslin, 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
9. 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)

10. 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
11. 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)
12. 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
13. 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
14. 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
15. 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
16. 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

17. 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
18. 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
19. 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
20. 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
21. 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
22. 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
23. 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

24. 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
25. 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
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29. S. Chatrchyan *et al.*, "Measurement of the  $t\bar{t}$  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
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34. 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
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36. 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.*, "Measurement and QCD analysis of the diffractive deep-inelastic scattering cross-section at HERA," *Eur. Phys. J.*, vol. C48, pp. 715–748, 2006. doi: 10.1140/epjc/s10052-006-0035-3
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54. 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
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83. P. Vanlaer *et al.*, "Impact of CMS silicon tracker misalignment on track and vertex reconstruction," Tech. Rep. CMS Note 2006/029, 2006. [Online]. Available: <http://cdsweb.cern.ch/record/927378>
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