

Publications

As of April 2025, my **h-index is ca. 160**. 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] C. Frischknecht-Gruber, P. Denzel, O. Forster, Y. Billeter, A. Iranfar, M. Repetto, M. Reif, F.-P. Schilling, J. Weng, and R. Chavarriaga, "Assessment tool for trustworthy AI systems: operational workflows for compliance assessment with regulatory requirements," in *AI Days @ HES-SO, Geneva and Lausanne, Switzerland*, 2025. [Online]. Available: <https://digitalcollection.zhaw.ch/handle/11475/32422>
- [2] C. Frischknecht-Gruber, P. Denzel, M. Reif, Y. Billeter, S. Brunner, O. Forster, F.-P. Schilling, J. Weng, and R. Chavarriaga, "AI Assessment in Practice: Implementing a Certification Scheme for AI Trustworthiness," in *Symposium on Scaling AI Assessments (SAIA 2024)*, R. Görges, E. Haedecke, M. Poretschkin, and A. Schmitz, Eds., vol. 126. Dagstuhl, Germany: Schloss Dagstuhl – Leibniz-Zentrum für Informatik, 2025, pp. 15:1–15:18. doi:10.4230/OASlcs.SAIA.2024.15
- [3] P. Denzel, S. Brunner, Y. Billeter, O. Forster, C. Frischknecht-Gruber, M. Reif, F.-P. Schilling, J. Weng, R. Chavarriaga, A. Amini, M. Repetto, and A. Iranfar, "Towards the Certification of AI-based Systems," in *SDS 2024: 11th IEEE Swiss Conference on Data Science*, 2024, pp. 84–91. doi:10.1109/SDS60720.2024.00020
- [4] Y. Billeter, P. Denzel, R. Chavarriaga, O. Forster, F.-P. Schilling, S. Brunner, C. Frischknecht-Gruber, M. Reif, and J. Weng, "MLOps as Enabler of Trustworthy AI," in *SDS 2024: 11th IEEE Swiss Conference on Data Science*, 2024, pp. 37–40. doi:10.1109/SDS60720.2024.00013
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- [6] 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. arXiv:2403.18565
- [7] 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>
- [8] P. Denzel, F.-P. Schilling, and E. Gavagnin, "Map-to-map translation for SKA mock observations and cosmological simulations," in *Hammers and Nails 2023 - Swiss Edition, Ascona, Switzerland, October 2023*, 2023. doi:10.21256/zhaw-29047
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- [10] J. Weng, M. Reif, R. Chavarriaga, and F.-P. Schilling, "certAInty: a certification scheme for AI systems," in *Poster presented at ZHAW Datalab Symposium, Winterthur, Switzerland*, 2023. doi:10.21256/zhaw-27261
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