## List of Publications

### **Journal Articles**

1. Dreyer M, Berend J, Labarta T, Vielhaben J, Wiegand T, **Lapuschkin S** and Samek W (2025).

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4. Storås A M, Dreyer M, Pahde F, **Lapuschkin S**, Samek W, Halvorsen P, de Lange T, Mori Y, Hann A, Berzin T M, Parasa S and Riegler M A (2025).

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24. Hägele M, Seegerer P, **Lapuschkin S**, Bockmayr M, Samek W, Klauschen F, Müller K-R and Binder A (2020).

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25. Alber M, Lapuschkin S, Seegerer P, Hägele M, Schütt K T, Montavon G, Samek W, Müller K-R, Dähne S and Kindermans P-J (2019).

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29. Samek W, Binder A, Montavon G, Lapuschkin S, and Müller K-R (2017).

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# Contributions to Conference Proceedings and Workshops

1. Labarta T, Hoang N, Weitz K, Samek W, Lapuschkin S and Weber L (2025).

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2. Puri B, Jain A, Golimblevskaia E, Kahardipraja P, Wiegand T, Samek W and Lapuschkin S (2025).

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3. Naujoks J, Krasowski A, Weckbecker M, Yolcu G Ü, Wiegand T, **Lapuschkin S**, Samek W and Klausen R (2025).

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9. Kopf L, Bommer P L, Hedström A, Lapuschkin S, Höhne M M-C and Bykov K (2024).

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10. Nobis G, Springenberg M, Aversa M, Detzel M, Daems R, Murray-Smith R, Nakajima S, **Lapuschkin S**, Ermon S, Birdal T, Opper M, Knochenhauer C, Oala L and Samek W (2024).

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12. Achtibat R, Hatefi S M V, Dreyer M, Jain A, Wiegand T, Lapuschkin S, Samek W (2024).

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- 34. Sun J, **Lapuschkin S**, Samek W and Binder A (2020). "Understanding Image Captioning Models beyond Visualizing Attention". In: *XXAI: Extending Explainable AI Beyond Deep Models and Classifiers. ICML Workshop*
- 35. Anders C J, Neumann D, Marinč T, Samek W, Müller K-R and **Lapuschkin S** (2020). "XAI for Analyzing and Unlearning Spurious Correlations in ImageNet". In: *XXAI: Extending Explainable AI Beyond Deep Models and Classifiers. ICML Workshop*
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Part III ISBN: 978-3-031-63800-8. Part IV ISBN: 978-3-031-63803-9

#### **Book Chapters**

1. Becking D, Dreyer M, Samek W, Müller K and Lapuschkin S (2022).

"ECQx: Explainability-Driven Quantization for Low-Bit and Sparse DNNs".

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# **Preprints**

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- 3. Cantú E D, Wittmann R K, Abdeen O, Wagner P, Samek W, Baier M and **Lapuschkin S** (2025). "Deep Learning-based Multi Project InP Wafer Simulation for Unsupervised Surface Defect Detection". In: *CoRR abs*/2506.10713
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