Susu Hu

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CURRENT POSITION

National Center for Tumour Disease, Dresden, Germany

Doctoral Student 2023 - *Present*

♦ Advancing digital pathology for precision oncology by developing graph-based and generative deep learning models for tissue analysis and molecular profiling.

EDUCATION

Dresden University of Technology, Dresden, Germany

Computational Modelling and Simulation, Master of Science *2019 - 2023*

♦ Areas of concentration: machine learning, computer vision, stochastic and probabilities, statistics, data visualisation

♦ Master thesis: Deep neural fields for non-rigid 3D reconstruction and registration

Nanjing Agricultural University, *China*

Logistics Engineering, Bachelor of Science *2009 - 2013*

♦ Areas of concentration: computer science, natural science and engineering basics

PROFESSIONAL EXPERIENCE

National Center for Tumour Disease, Dresden, Germany

3D Deep Learning, Research Assistant *2022 - 2023*

♦ weakly supervised CT images segmentation

Fraunhofer IPA, Stuttgart, Germany

2D/3D Signal Processing, Research Assistant *2022*

♦ Active learning and one-shot object tracking

Fraunhofer IPMS, Dresden, Germany

Neural Network Quantization, Research Assistant *2021 - 2022*

♦ Intra-layer mixed quantization in convolutional neural networks

Robotron Datenbank, Dresden, Germany

Software Developer, Working Student *2021 - 2022*

♦ Real-time multi-object tracking for industrial application

AWARDS

Excellent students in artificial intelligence, *The School of Embedded Composite Artificial Intelligence, Germany* *2023*

Merit student scholarship, *Nanjing Agricultural University* *2010*

PUBLICATIONS

Schulz, J., **Hu, S.**, Speidel, S., Seeling, P., Fitzek, F.
"Negative Latency in Computer Vision: A Key to Efficient Edge Offloading"
Global Communications Conference (GLOBECOM), IEEE *2024*

Vardar, A., **Hu, S.**, Jain, A., Mojumder, S., Shrivastava, S., De, S., & Kämpfe, T.
"Mixed intra layer In CNN quantization for CIM architectures"
TinyML Summit *2022*

Vardar, A., Zhang, L., **Hu, S.**, Jain, S. B., Mojumder, S., Laleni, N., ... & Kämpfe, T.
"Layer Sensitivity Aware CNN Quantization for Resource Constrained Edge Devices"
International Conference on Soft Computing & Machine Intelligence (ISCMI) IEEE *2022*

PROFESSIONAL SERVICE

Reviewer for CVPR workshop 2024