Susu Hu

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CURRENT POSITION

National Center for Tumour Disease, Dresden, Germany
Doctoral Student 2023 - Present
Geometry machine learning for surgical outcome prediction

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 (SECAI)* 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) 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