Zhiliang Wu

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Research interests

Machine learning, esp. Deep Learning, Gaussian Processes
Clinical decision support through predictive and prescriptive analysis
Recommender systems with counterfactual analysis

Education

Ludwig Maximilian University of Munich Munich, Germany
Ph.D. in Machine Learning Nov. 2018 – Present
Supervisor: Prof. Volker Tresp

Technical University of Munich Munich, Germany
M.Sc. in Automation and Robotics Oct. 2015 – Oct. 2018
Supervisor: PD. Martin Kleinsteuber *GPA: 1.1*

Tongji University Shanghai, China
B.Sc. in Automation *GPA: 1.4* Sep. 2011 – Jun. 2015

Honors and scholarships

Best Paper Award (IEEE ICHI) 2020
Scholarship for International Students (Technical University of Munich) 2016
The Outstanding Graduate (Tongji University) 2015

Publications

Quantifying Predictive Uncertainty in Medical Image Analysis with Deep Kernel Learning
Zhiliang Wu, Yinchong Yang, Jindong Gu, Volker Tresp.
IEEE International Conference on Healthcare Informatics (ICHI), 2021.

Learning Individualized Treatment Rules with Estimated Translated Inverse Propensity Score
Zhiliang Wu, Yinchong Yang, Yunpu Ma, Yushan Liu, Rui Zhao, Michael Moor, Volker Tresp.
IEEE International Conference on Healthcare Informatics (ICHI), 2020.

Introspective Learning by Distilling Knowledge from Online Self-explanation
Jindong Gu, Zhiliang Wu, Volker Tresp.
Proceedings of the Asian Conference on Computer Vision, 2020.

Categorical EHR Imputation with Generative Adversarial Nets
Yinchong Yang, Zhiliang Wu, Volker Tresp, Peter Fasching.
IEEE International Conference on Healthcare Informatics (ICHI), 2019.

Research experience

Maschinelles Lernen mit Wissensgraphen (MLwin)
Supervisor: Prof. Volker Tresp (LMU Munich) Nov. 2018 – Present
Research of state-of-the-art Machine Learning /Deep Learning approaches for clinical decision support systems.
Collaboration with clinical experts from Uni-Klinikum Erlangen.
Publication of high-quality conference papers.

Integrating Uncertainty of Implicit Feedback in Recommender Systems
Supervisor: PD. Martin Kleinsteuber (TU Munich) Oct. 2017 – Mar. 2018
Research of the state-of-the-art Recommender systems.
PoC of internal recommender systems with the analytics team.
Completion of the master's thesis.

Teaching experience

Student assistant, Institute for Cognitive System Summer 2017
EI7478: Practical Course Humanoid RoboCup
Preparation of the tutorial for NAO Programming.
Projects coordination on LRZ-Gitlab.

Student assistant, Chair of Automatic Control Engineering Summer 2016
EI7303: Advanced Control and Robotics Lab
Kuka-Robot Programming.
Sequential movement definition and position online teaching.

Industry experience

Siemens AG, CT RDA BAM MIC-DE Munich, Germany
Working student Summer 2018
Contribution to the API-Gateway Project, using OpenAPI Specification and Web services to host ML algorithms online.
Coding for automatic testing, continuous integration and Docker containers.

Skills

Programming
Proficient in: Python (PyTorch, Tensorflow, etc.).
Familiar with: Matlab, C++.

Languages
Chinese (native), English (fluent), German (advanced)

Memberships

Siemens Mentoring Program Sep. 2017 – Sep. 2018
Regular meetings with a corresponding mentor.
Hackathon at Siemens AI lab.