

Xiaorui Du

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Education

PhD Candidate

Personalized Rehabilitation in Oncology Specific Motor Deficits
Using Intelligent Sensing in Extended Reality

Audi-Konfuzius-Institut Ingolstadt, Ingolstadt, Germany

Oct 2020 - Present

Master of Science (M.Sc.)

Intelligent Traffic Engineering School of
Civil Engineering & Transportation

South China University of Technology (SCUT), GuangZhou, China

Advisor: Prof. Dr. Weiming Liu

Sep 2017 - Jun 2020

Bachelor of Science (B.Sc.)

Mineral Processing Engineering School of
Minerals Processing and Bioengineering

Central South University, Hunan, China

Advisor: Prof. Dr. Ming Gan

Sep 2013 - Jun 2017

Internship

Intern

Artificial Intelligence Department

Merck KGaA (Germany)

Nov 2019 - Mar 2020

Intern

Intelligent Driving Technology Department

Guangzhou Automobile Group Co.,Ltd . (China)

Jul 2018 - Feb 2019

Intern

Big Data Analysis Department

Guangzhou Metro (China)

Sep 2017- Jun 2018

Scholarship and honors

- Awarded 1st prize(1600EUR)** in the final comprehensive evaluation of graduate students. Oct 2019
- 1st place** at the Merck AI Research Challenge **(2500EUR)** for the development of IRENA (Invariant Representation Extraction in Neural Architectures) Artificial Intelligence System. Aug 2019
- Awarded 3rd prize** of national scholarship **(70EUR/month)**. Sep 2017
- Awarded Honorable Mention** in Mathematical Contest In Modeling which is organized by COMAP (consortium for mathematics and its application). Dec 2016
- Awarded 1st prize(700 EUR)** in chemical virtual simulation design competition which is organized by CSU(Central South University). Nov 2015
- Awarded TongGuan scholarship(500EUR)** from **Tong Ling Nonferrous Metals Group Co . , Ltd .** for making a big contribution for virtual simulation laboratory. Nov 2015
- Awarded outstanding student scholarship(900EUR)** from **Bejoy Soft Ltd .** for ranking top 3 in my major. Mar 2015

Selected publications

Liu, W., Du, X., Geng, Q., Li, J., Li, H., & Liu, L. (2019, November). Metro Passenger Flow Statistics Based on YOLOv3. In *IOP Conference Series: Materials Science and Engineering* (Vol. 688, No. 4, p. 044025). IOP Publishing. Nov 2019

L. Weiming, D. Xiaorui, L. Jingning. An algorithm for classification of subway dangerous objects based on unsupervised learning[J/OL]. *Railway Standard Design*:1-6[2020-04-23].<https://doi.org/10.13238/j.issn.1004-2954.201907250004>. Aug 2019

In review

D. Xiaorui, Y. Erdem, I. Schweizer, C. Axenie, A Framework for Learning Invariant Physical Relations in Multimodal Sensory Processing, 2020 International Joint Conference on Neural Networks (IJCNN) within IEEE World Congress on Computational Intelligence (IEEE WCCI2020). 2020