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Shape analysis for phenotype characterisation from high-throughput imaging

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Curriculum Vitae

Yuanhao Guo was born in Jinan City in China on December 25, 1986. In 2009, He received his Bachelors degree from Qingdao University of Science and Technology in Electronics Information Science and Technology. In that year, he was awarded the title "Shandong Province Outstanding Graduate Student" and "Shandong Province Government Scholarship". In 2012, he received his Masters Degree from Shandong University in Pattern Recognition and Image Processing under the supervision of Professor Wei Jiang. In that year, he was awarded the "Shandong University Guanghua Scholarship".

In September 2012, he started his PhD supported by the China Scholarship Council. In April 2014, he continued his research in Imaging and Bioinformatics Group, Leiden Institute of Advanced Computer Science, Leiden University, under the supervision of prof.dr.ir. Fons J. Verbeek. His research focused on computational methods in bio-imaging for phenotype analysis from high-throughput imaging using light microscopy. His research interests also cover the applications of machine learning and computer vision in life-sciences. In particular, he collaborated with biologists and pharmacists to investigate 3D modelling for accurate shape assessment of model systems, i.e., the zebrafish larvae. He is also interested in deep learning, for example, the deep convolutional neural networks and recurrent neural networks.

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