

Curriculum Vitae

Personal Details

Family Name: Sun

Given Name: Hemeng

Gender: Female

Nationality: Chinese

Date of Birth: 11.June.1994

Birth Place: Jilin Province, China

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Education Background

- Shuxun Primary School of Chuangchun City** Sept.2001 - July.2007
- Attached Middle School to Jilin University** Sept.2007 - July.2010
- Experimental School of the Affiliated Middle School to Jilin University** Sept.2010 - July.2013
- Beihang University** Sept.2013 - July.2017
 - Major: Automation (Automatic Control and Information Technology)
 - Degree: Bachelor of Engineering
- RWTH Aachen University** Apr.2018 - Present
 - Master program
 - Major: Communications Engineering in Faculty of Electrical Engineering, Information Technology and Computer Engineering

Academic Activities

- School Robot Competition** Aug.2014 - Oct.2014
 - Robot to automatic pick up fruits, able to complete basic operations, including automatic plan route itself, recognize objects and fetch them.
- National Undergraduate Training Program for Innovation and Entrepreneurship** Nov.2015 - Nov.2016
 - Cooperate with other four teammates studying on *Intelligent Recognition System of Aircraft Wreckage Based on Neural Cognition*
 - The software platform of aircraft wreck intelligent identification system based on radial basis function neural network is developed.
- Paper published entitled *Protein Secondary Structure Prediction via Pigeon-Inspired Optimization*** Aug.2016
 - In the IEEE Chinese Guidance, Navigation and Control Conference,
 - As the second author, mainly work on the study of protein's structure and the algorithms applied to make the protein structure prediction named "Pigeon-Inspired Optimization Algorithm"(PIO). Compared to Particle Swarm Optimization (PSO), PIO can work out an accurate prediction in relatively shorter iterations.
- Curriculum Design and Comprehensive Experiment** Sept.2016 - Oct.2016
 - Kinematics Modeling and Simulation of Virtual Human: Motion data acquisition by PhaseSpace Impulse and Autodesk MotionBuilder→Create a biped bone in 3Ds Max and match with the grid model, then bind the mesh model→Build the OGRE application framework in the Visual Studio 2010 programming environment
 - 3D Printing: 3D modeling by Solidworks→3D model cut into slices by Cura→3D printer by Ultimaker2→finished 3D model product
- Graduation Project** Dec.2016 - June.2017
 - Construction of clustering network of simulation models under cloud environment and visualization of simulation model composition
 - Results: Classification and Correlation Analysis of Heterogeneous Simulation Models in Cloud Environment, Simulation model aggregation network design and implementation, and the model automatically combined process visualization by network response to dynamic simulation requirements.
- Paper published entitled *data mining and knowledge towards smart production with big data*** Mar. 2018

- In the Journal of Industrial Information Integration, Volume 9, Pages 1-13
- As the third author, mainly work on the study of data mining techniques and functions and the applications in production management.

7. Exchange study in Korea Advanced Institute of Science and Technology

Sept.2019 – Dec.2019