

Shifu Yan

Phone: +86 131-2228-2826 | Email: yanshifu@mail.ecust.edu.cn

Address: Meilong Road NO. 130, Shanghai 200237, P. R. China

EDUCATION

East China University of Science and Technology

Shanghai, China

Bachelor of Engineering in Automation

Sep 2013 - Jun 2017

- GPA: 3.7 / 4.0 (#2 / 84).
- Honors/Awards: First-class academic scholarship (#1 / 84; 2016), Excellent Student Award (2014 - 2016).
- Relevant Coursework: C/C++, MATLAB, Python, Artificial Intelligence, Process Control.

East China University of Science and Technology

Shanghai, China

Ph. D Candidate in Control Science and Engineering

Sep 2017 - present

- Honors/Awards: Academic scholarship (#1/79; 2018), Excellent Student Award (2018).
- Research interest: Machine learning, Deep learning, Statistical process monitoring, Soft sensor.

RESEARCH EXPERIENCE

East China University of Science and Technology

Sep 2017 - present

Key Laboratory of Advanced Control and Optimization for Chemical Process Ministry of Education

- Topic: Key-performance-indicator related predicting and monitoring based on deep learning; Data-driven plant-wide nonlinear process monitoring.
- At present, 3 papers has been published (first author); 3 papers are under reviewed (first author); 3 papers under reviewed (second author).

PROFESSIONAL EXPERIENCE

Custom product design based on 3D printing

Jan 2016 – Jun 2017

National innovation project for college student

- Responsible for developing plugin for rapid modeling in SolidWorks using VBA.

Data-driven prediction of key components of phenolic resin

Aug 2018 – present

Work for Red Avenue, a public company

- Responsible for modeling the production process based on support vector machine, Intelligent optimization algorithm, neural networks and developing software using Python for guiding the production to increase profit.
- At present, a software copyright has been resisted; a Chinese patent is under reviewed.

PUBLICATIONS

Shifu Yan, Junping Huang and Xuefeng Yan. "Monitoring of quality-relevant and quality-irrelevant blocks with characteristic-similar variables based on self-organizing map and kernel approaches." *Journal of Process Control*, vol. 73, pp. 103-112, Jan. 2019. (JCR: Q2; IF: 3.316)

Shifu Yan, Xuefeng Yan. "Using Labeled Autoencoder to Supervise Neural Network Combined with k - Nearest Neighbor for Visual Industrial Process Monitoring." *Industrial & Engineering Chemistry Research*, vol. 58, no. 23, pp. 9952-9958, May. 2019. (JCR: Q1; IF: 3.375; Published as supplementary Cover)

Shifu Yan, Xuefeng Yan. "Design teacher and supervised dual stacked auto-encoders for quality-relevant fault detection in industrial process." *Applied Soft Computing*, vol. 81, Aug. 2019. (JCR: Q1; IF: 4.873)

HONORS & AWARDS

Shanghai Scholarship (Highest scholarship in China, #4 / 84)

Sep 2015

National Mathematical Modeling Competition (2nd Prize in Shanghai)

Nov 2015

National Scholarship (#1 / 84)

Sep 2016

Excellent Graduate in Shanghai

Jun 2017