Zhe Li

Address	Delft University of Technology
	Faculty of Electrical Engineering, Mathematics and Computer Science
	Department of Intelligent Systems
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Nationality	Chinese

Education

2017- now PhD, Computer Science - Delft University of Technology, the Netherlands
Supervisors: Prof. Alan Hanjalic, Dr. Julián Urbno
Project: Multi-criteria Recommender Systems

2014-2017 Master of Science (cum laude), Information and Communication Engineering, Tianjin University, China
Supervisor: Prof. Wei Lu
Thesis: Data Analysis in Breast Cancer Computer-aided Diagnosis on Images

2000-2014 Bachelor of Engineering, Information and Communication Engineering, Zhejiang University, China
Supervisors: Prof. Huiming Tang, Prof. Huimin Yu
Thesis: The Recognition of the Serial Number in Paper Currency

Published papers

2018 Li Z. Towards the next generation of multi-criteria recommender systems[C]//Proceedings of the 12th ACM Conference on Recommender Systems. ACM, 2018: 553-557. .

2017 Lu, W., Li, Z. and Chu, J.. Adaptive Ensemble Undersampling-Boost: A novel learning framework for imbalanced data. Journal of Systems and Software, 132, pp.272-282.

2017 Lu, W., Li, Z. and Chu, J.. A novel computer-aided diagnosis system for breast MRI based on feature selection and ensemble learning. Computers in biology and medicine, 83, pp.157-165.

2016 Li. Z., Lu, W., Min, H. and Chu, J.. Application of machine learning algorithms in breast tumor detection. Computer Engineering and Science, 11, pp.2303-2309 (in Chinese).

Research experience

Sep.2017 - current Delft University of Technology, the Netherlands
Deep learning-based next-generation multi-criteria recommender systems.

Sep.2014 - Jan. 2017 Tianjin University, Tianjin, China
Computer Aided Detection & Diagnosis in breast cancer

- Made comparisons between different classification algorithms on public breast cancer datasets.
- Proposed a novel and effective breast mass computer-aided diagnosis system.
- Proposed a novel algorithm to address the data imbalance problem.
- Proposed a framework for feature extraction and selection based on Relief algorithm and the subspace method.

Jun.2016 -   Institute of Automation, Chinese Academy of Sciences, Beijing, China
Dec. 2016   *Data mining of breast cancer medical records*

- Analyzed the data and found the abnormal items.
- Did a statistical analysis to the raw data.
- Did clustering and association rules mining based on K-means and Apriori, respectively.
- Developed a similar patient recommender system based on KNN.

Nov.2013 -   Zhejiang University, Hangzhou, China
Jun. 2014   *Currency number recognition*

- Made the currency number segmentation based on accumulated projection.
- Designed a kind of new feature to describe the characteristics of one specific number.
- Made the classification based on template matching.

Teaching experience

Sept 2018 -   Delft University of Technology, the Netherlands
Co-supervisor in Master thesis "Video captioning based on Generative Adversarial Networks"
Student: Fenglu Xu

Feb 2018 -   Delft University of Technology, the Netherlands
Apr 2018   *Supervisor in the Bachelor Seminar project "RNN-based recommender systems"*
Students: Kaan Yilmaz, Jelle Vos, Tim Rietveld

Internship experience

Mar 2017 -   SenseTime Group Ltd., Beijing, China
Jul 2017   *R&D intern in data mining, computational advertising, and recommender systems*

Jun 2016 -   National Laboratory of Pattern Recognition, Institute of Automation, China Academy of Sciences, China
Dec 2016   *R&D intern in machine learning and data mining focusing on association rule mining*

Mar 2016 -   Toshiba Medical Systems, Beijing, China
Sep 2016   *Research intern in machine learning and medical imaging focusing on object detection*

Professional Skills

- **Programming languages**: C, Matlab, Python, Verilog HDL, LaTeX, JavaScript, Scala.
- **Research**: recommender systems, machine learning, deep learning, TensorFlow, computer-aided diagnosis, pattern recognition, data mining, medical informatics, digital image processing.
- **Basic knowledge**: natural language processing, computer vision, social computing, computer networks.

Honors and Awards

- Travel Grant, RecSys 2018
- China Scholarship Council four years scholarship, China, 2017-2021
- Outstanding graduates, Tianjin University, 2017
- First scholarship for outstanding Students, Tianjin University, 2016
- Outstanding thesis for undergraduates, Zhejiang University, 2014

Academic Service

- Student Voluteer, RecSys'18, Vancouver, BC, Canada.
- Reviewer, IEEE Systems Journal
- Chinese subtitles translator for MOOCs, Coursera, 2016-now
- Translator & reviewer, Recommender Systems Handbook (2nd Edition, Chinese version).

Referees

Name	Prof. Alan Hanjalic	**Name**	Dr. Julián Urbno
Contact	A.Hanjalic@tudelft.nl	**Contact**	J.Urbano@tudelft.nl
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	Department of Intelligent Systems		Department of Intelligent Systems
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