Wenjie Pei

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Educational Background

- 10/2013 – 10/2017 (expected) Delft University of Technology (**TU Delft**)
  PhD candidate in Pattern Recognition and Computer Vision Laboratory
  Co-Supervisors: Dr. David Tax (TU Delft),Dr. Laurens van der Maaten (Facebook AI Research)
  Research Area: Machine Learning, Computer Vision
- 09/2011 – 08/2013 Eindhoven University of Technology (**TU/e**)
  Master of computer Science and Engineering (Ranked among top positions)
  Supervisor: Dr. Toon Calders
  Research Area: Data Mining
- 09/2008 – 06/2011 Zhejiang University **(ZJU**) (top-3 university in China)
  Master of Computer Science and technology in State Key Lab of CAD&CG
  Co-Supervisors: Dr. Hujun Bao and Dr. Jin Huang
  Research topic: Consistent Visualization for Surface Vector Fields
- 09/2004 – 06/2008 Shanghai JiaoTong University (**SJTU**) (top-5 university in China)
  Bachelor's degree of Computer Science & Engineering Ranked top 15%
  Bachelor's degree of Business Management

Research Interests

- Sequence modeling
- Time series modeling
- Attention Model
- Recurrent Neural Networks
- Deep Learning
- Sequence-related applications, e.g, age estimation from facial videos
- Object Detection
- Person Re-Identification
- Sequence Autoencoder

Research Experience

- 07/2017 **CVPR Doctoral Consortium**
  Mentored by Dr. Kaiming He
- 07/2016 – 12/2016 Carnegie Mellon University (**CMU**)
  Visiting Scholar in Language Technology Institute (LTI)
  Supervisors: Prof. Louis-Philippe Morency and Dr. Tadas Baltrušaitis
  Research topic: Temporal Attention-gated Model for Robust Sequence Classification
- 03/2013 – 08/2013 Philips Research Eindhoven
  Master project & Reseach Internship.
  Research topic: Extracting good features to discriminate OSA and non-OSA subjects. (OSA: Obstructive Sleep Apnea)

Publications

- **Wenjie Pei***, David M.J. Tax. Unsupervised Learning of Sequence Representations by Autoencoder. International Joint Conference on Artificial Intelligence (**IJCAI**) 2018, submitted.
- Yunqiang Li*, **Wenjie Pei***, Yufei Zha, Bing Chen, David M.J. Tax, Jan van Gemert. Shift-variant Dissimilarity Learning for Person Re-Identification. **CVPR** 2018, submitted. (*Equal contribution)
- **Wenjie Pei**, Hamdi Dibeklioğlu, Tadas Baltrušaitis and David M.J. Tax. Attended End-to-end Architecture for Age Estimation from Facial Expression Videos. Transactions on Image Processing (**TIP**), 2017, submitted.
- **Wenjie Pei***, Jie Yang*, Zhu Sun, Jie Zhang, Alessandro Bozzon and David MJ Tax. Interacting Attention-gated Recurrent Networks for Recommendation. Accepted by **CIKM** 2017. (*Equal contribution)
- **Wenjie Pei**, Tadas Baltrušaitis, David M.J. Tax and Louis-Philippe Morency. Temporal Attentijon-Gated Model for Robust Sequence Classification. Accepted by **CVPR** 2017.
- **Wenjie Pei**, Hamdi Dibeklioğlu, David MJ Tax and Laurens van der Maaten. Multivariate Time Series Classification using the Hidden-Unit Logistic Model. IEEE Transactions on Neural Networks and Learning Systems (**TNNLS**) 2017.
- **Wenjie Pei**, David M.J. Tax and Laurens van der Maaten. Modeling Time Series Similarity with Siamese Recurrent Networks. **arXiv** 2016.
- Hoang Thanh Lam, **Wenjie Pei**, Adriana Prado, Baptiste Jeudy, Élisa Fromont, Toon Calders. Mining Top-K Largest Tiles in a Data Stream . **ECML/PKDD** 2014.
- **Wenjie Pei**. Extracting Features to Discriminate OSA and non-OSA. Master Thesis in **Philips Research Eindhoven** and **TU/e**.
- Jin Huang, **Wenjie Pei**, Chunfeng Wen, Guoning Chen, Wei Chen, Hujun Bao. Output-Coherent Image-Space LIC for Surface Flow Visualization. **PacificVis** 2012.
- Jin Huang, Muyang Zhang, **Wenjie Pei**, Hujun Bao. Controllable Highly Regular Triangulation, **CHINAGRAPH** 2010 and **SCIENCE CHINA** 2011.

Ongoing Research

- Object Detection
- Unsupervised Learning for Sequence Data

Reviewer Experience

- **NIPS,** 2017
- **Applied Soft Computing**, 2017
- **TNNLS**, 2016

Scholarship and Awards

- 2011-2013 Talent Scholarship Program (TSP) — **TU/e** & **Philips**
- 2008-2011 First-grade Graduate Scholarship — **ZJU**
- 2006 Excellent Scholarship — **SJTU**
- 2004-2008 ZhaoJianjun Scholarship (only one in my department) — **SJTU**

Programming

- Qualified with **Torch**, **C**, **C++**, **Java**, **OpenCV**, **OpenGL**, **GLSL**, **Qt**, **Matlab**, etc.