

Wenjie Pei

Delft, the Netherlands

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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 & Research Internship.
Research topic: Extracting good features to discriminate OSA and non-OSA subjects. (OSA: Obstructive Sleep Apnea)
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Publications	<ul style="list-style-type: none"> ▪ 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 Attention-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, Élisabeth 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	<ul style="list-style-type: none"> ▪ Object Detection ▪ Unsupervised Learning for Sequence Data 		
Reviewer Experience	<ul style="list-style-type: none"> ▪ NIPS, 2017 ▪ Applied Soft Computing, 2017 ▪ TNNLS, 2016 		
Scholarship and Awards	<table border="0" style="width: 100%;"> <tbody> <tr> <td style="width: 50%;"> <ul style="list-style-type: none"> ▪ 2011-2013 Talent Scholarship Program (TSP) ▪ 2008-2011 First-grade Graduate Scholarship ▪ 2006 Excellent Scholarship ▪ 2004-2008 ZhaoJianjun Scholarship (only one in my department) </td> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> ▪ TU/e & Philips ▪ ZJU ▪ SJTU ▪ SJTU </td> </tr> </tbody> </table>	<ul style="list-style-type: none"> ▪ 2011-2013 Talent Scholarship Program (TSP) ▪ 2008-2011 First-grade Graduate Scholarship ▪ 2006 Excellent Scholarship ▪ 2004-2008 ZhaoJianjun Scholarship (only one in my department) 	<ul style="list-style-type: none"> ▪ TU/e & Philips ▪ ZJU ▪ SJTU ▪ SJTU
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Programming	<ul style="list-style-type: none"> ▪ Qualified with Torch, C, C++, Java, OpenCV, OpenGL, GLSL, Qt, Matlab, etc. 		