Dr. Jianwen SUN

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EXPERIENCES

Centre Suisse d'Electronique et de Microtechnique (CSEM)   Alpnach Dorf, Switzerland
R&D Engineer in Microassembly & Robotics group   02.2017 - present
- Successfully applied two CTI fundings, *PM4MDPTS* and *CBM*
- Project Manager for a CTI project *CBM* focusing on condition based maintenance using RNNs/DAEs
- Technical lead for a CTI project *PM4MDPTS* focusing on predictive maintenance using RNNs/GANs
- Technical consulting for the application of deep learning to sequential data

Centre Suisse d'Electronique et de Microtechnique (CSEM)   Alpnach Dorf, Switzerland
Research assistant in Microassembly & Robotics group   12.2011 - 01.2017
- Designed the first industry-applicable quality inspection system for precision machinery, *Tilear*, based on deep learning algorithms
- Customized software systems based on clients' requests, conducted the on-site field tests, and trained clients' engineers to use *Tilear*

AlpVision   Vevey, Switzerland
Intern for iOS software development   10.2010 - 02.2011
- Developed the first prototype of the iOS application for product authenticity verification

EDUCATION

Eidgenössische Technische Hochschule Zürich (ETHZ)   Zürich, Switzerland
Doctor of Sciences   01.2012 - 10.2017
Thesis: A Quality Inspection System for Precision Machinery Based on Generative Modeling
Research Interests: Deep learning, Time series modeling, Sequential data learning, Anomaly detection, Signal processing, Optimization method

École Polytechnique Fédérale de Lausanne (EPFL)   Lausanne, Switzerland
Master of Science in Electrical and Electronics Engineering   09.2009 - 09.2011
Thesis: Anomaly Detection in Time Varying Signals for the Quality Inspection of Electromotors

(Dual bachelors in 4 years)
Nankai University   Tianjin, China
Bachelor of Science in Optoelectronics   09.2005 - 07.2009

Tianjin University   Tianjin, China
Bachelor of Engineering in Optoelectronics   09.2005 - 07.2009

ADDITIONAL INFORMATION

Languages: English (full professional proficiency); Chinese (native); German (limited working proficiency)

Programming Skills: C++, MATLAB, Python, Objective-C, C#, Java, HTML, CSS, XSLT

Computer Skills: Microsoft Office, LaTeX, iWork, Adobe Indesign

Activities: Reviewer for IEEE Transactions on Industrial Electronics   2016 - present
Co-founder & committee member of CSEM PhD Club   06.2013 - 09.2016
Committee member of Chinese Students & Scholars Association, Lausanne   03.2010 - 02.2011
Co-founder and vice Director of Career Center, CITS, Nankai University   11.2006 - 09.2007

Honors: Best Director of Career Center, Nankai University   05.2008
Scholarship of Nankai University   10.2007

Interests: Football, Tennis, Traveling, Reading