Weijia Lu is a researcher with two PhDs & Sr. Manager of an innoventional team of diverse technical directions; has over 10 years of experiences in data modeling, artificial intelligence application, multiphysics numerical analysis, signal processing, computer visualization and likely; has demonstrated excellence in academic research.



CONTACT

AlfredWJLu@gmail.com

+86 137 7436 3137

Shanghai, CN

Personal Homesite

in Professional Portal

0000-0002-7899-6034

SKILLS

Industry

Healthcare Automobile



Leadership & Management

Strategic Planning Quality Assurance Team Leadership Visionary Thinking



Research & Delivery

Signal Processing (e.g. Image, Medical Signal, Text ...)

Deep/Machine Learning

(e.g. GAN, RL ...)

Compute Architecture (e.g. Model Pruning, FL ...)

(e.g. Model Pruning, FL ...)

Physics

(e.g. FIELD II, Abersim, COMSOL ...)

Software Implementation (e.g. Python, C/C++, R, Matlab, GNU Tools, Linux, Docker, HTML, PHP, DevOps ...)

Hardware Design & MCUs • • • • • • (e.g. ATmega128, MSP430, 80C51, TDA4)

Languages

Mandarin English



CERTIFICATES

- + JHU certified Data Science Specialization
- + Bk certified Big Data Analysis with Spark
- + GE certified Green Belt of Lean Six Sigma
- + CN Automation certified Mid-Class Eng

WORK HISTORY

₩ 08/2019 - Now

• UAES, Shanghai, CN

Chief Al Scientist & Sr. Mgr

UAES is No 1. in Driving Technology in China. Its product enclosed EMS, BMS, VCU, VCP, eAxials, TMS so on so forth.

1 09/2018 - 08/2019

▼ Tencent Al Lab, Shenzhen, CN Senior Researcher

Lead research on deep learning algorithm for medical pathological diagnosis; 2 SCIE papers, 1 top-rank conference

1 04/2017 - 09/2018

Q GE Digital, Shanghai, CN

Staff Data Scientist

Lead research on deep learning algorithm for auto-annotation on physiological signal, predictive maintenance for large healthcare equipment; deliver web platform for radiomics study in hospital; 1 top-rank conference, 1 US patent

6 05/2012 - 04/2017

GE Global Research, Shanghai, CN
 Lead Engineer

Lead research on offshore drilling ultrasonic velocimetry, lift solution optimization for well lifecycle management, detection algorithm & physical modeling for micro-calcifications twinkling study, automation tool for GE controllers; 1 SCIE paper, 1 top-rank conference, 1 CTO award, 3 US patents

1 09/2010 - 05/2012

Philips Research, Shanghai, CN

Scientist

Research on signal processing algorithm for ultrasound blood velocimetry, and denoising algorithm for motion artifacts on ECG signal; 2 US patents

EDUCATION

05/2008 - 09/2011

♥ University of Aizu, Aizu-Wakamatsu City, JP PhD of Computer Science

Research on computational model & 3D visualization for cardiac electrophysiological study; 1 SCIE paper, 2 conferences

1 09/2004 - 06/2009

Fudan University, Shanghai, CN PhD of Electronic Engineering

Research on epi-cardial mapping system, including its data acquisition hardware, firmware, USB driver, 3D interpolation algorithm; 1 SCIE paper, 1 Chinese top-rank journal paper, 3 conferences

1 09/1999 - 07/2003

 Nanjing University of Sc. and Tec., Nanjing, CN
 Major in radar system and signal processing **BSc of Electronic Engineering**

ACHIEVEMENTS, HONOURS AND AWARDS

- TCTO Physical & Digital Integration Award, GE, 2016
- P Best Employee, UAES, 2020
- 1st prize of National Machinery Industry Excellent Quality Management, 2022

RECOMMENDATIONS

"...Weijia has developed an excellent reputation within our organization as a dedicated, insightful and easy to work with colleague..." - by Chief Engineer @ GE Ultrasound Probes

PUBLICATIONS

New Scheme for Observation and Interpretation Atrial Fibrillation Weijä Lu, Zurking Fing		Implementation of a New System for Whole-Atrial Epicardial Mapping ng, Weijia Lu, Xiaomei Wu, and Zuxiang Fang International Journal of Bioelectromagnetism	% ADS	i arXiv
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## in Proceedings of the International Conference on Biomedical Engineering and Informatics ## Louise Vang, Weijia Lu, Tuo Zhou, Xiaomei Wu, and Zuxiang Fang ## 2008 ## in Proceedings of the International Conference on Biomedical Engineering and Informatics ## Weijia Lu, Tuo Zhou, Xiaomei Wu, and Zuxiang Fang ## 2008 ## in Proceedings of the International Conference on Biomedical Engineering and Informatics ## Weijia Lu, Culwei Yang, and Zuxiang Fang ## 2009 ## Journal of Biomedical Engineering (Chinese), vol.26, pp.1102-1105 ## Wentering Shen, Weijia Lu, Daming Wei, Weimin Xiu, Xin Zhu, and Shixhong Yuan ## 2009 ## Journal of Biomedical Engineering (Chinese), vol.26, pp.1102-1105 ## Wentering Shen, Weijia Lu, Daming Wei, Weimin Xiu, Xin Zhu, and Shixhong Yuan ## 2009 ## In Proceedings of 8th IEEE/ACIS International Conference on Computer and Information Science ## Weijia Lu, Culwei Yang, Zuxiang Fang, Xingpeng Liu, Xin Zhu, and Daming Wei ## 2011 ## Advances in Engineering Software, vol.42, pp.463-476 ## Weijia Lu, Daming Wei, Xin Zhu, and Wenki Chen ## 2011 ## Advances in Engineering Software, vol.42, pp.463-476 ## Weijia Lu, Daming Wei, Xin Zhu, and Wenki Chen ## 2012 ## Us 20:140:180:1144 1 ## ADS, arXi ## Weijia Lu, Daming Wei, Xin Zhu, and Wenki Chen ## 2012 ## Us 20:140:180:1144 1 ## ADS, arXi ## Weijia Lu, Daming Wei, Xin Zhu, and Wenki Chen ## 2012 ## Us 20:140:180:1144 1 ## ADS, arXi ## Weijia Lu, Jaming Xin, Any Anand, John Petruzzello ## 2012 ## Us 20:140:180:1144 1 ## ADS, arXi ## Weijia Lu, Jinany Zhong, Ajay Anand, John Petruzzello ## 2014 ## in Proceedings of 14th IEEE International Conference on Computer and Information Technology ## Weijia Lu, Wend Chen, Daming Wei, Koji Fukuda, and Hiroaki Shimokawa ## 2014 ## in Proceedings of 15th IEEE International Conference on Computer and Information Technology ## Weijia Lu, Brumo Haider ## 2017 ## Journal of Medical Ultrasonics, vol.44, pp.37-50 ## ADS, arXi ## Weijia Lu, Brumo Haider ## 2017 ## Journal	ynamic Ep	oicardial Mapping Using 3D Emulation		
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