

## Zhibo Pang



### HIGHLIGHT

**Keywords:** Industry4.0, Healthcare4.0, Internet-of-Things, Cyber Physical Systems, WirelessHP, Cloud-Fog Automation, Wireless communication, Cloud/Edge Computing, Machine Learning/AI, Cybersecurity, Functional Safety, System-on-Chip, FPGA/ASIC, Process automation, Robotics, Power grids, Control System, Biomedical Informatics

**Facts:** 24 granted patents, 90+ journal papers, 50+ conference papers, 30+ invited talks, 2 edited proceedings, Google Scholar citation 6000+, h-index 40

### EDUCATION

**PhD** (Electronic and Computer Systems), KTH Royal Institute of Technology, Stockholm, Sweden, 2013.7

**MBA** (Innovation and Growth), University of Turku, Turku, Finland, 2012.10

**B.Eng** (Electronic Engineering), Zhejiang University, Hangzhou, China, 2002.6

### EXPERIENCE

**Senior Principal Scientist** (2019.10-present), Principal Scientist (2017.8-2019.9), Senior Scientist (2016.1-2017.7), Scientist (2013.07-2015.12), Associate Scientist (2011.8-2013.07), ABB Corporate Research, Vasteras, Sweden

**Adjunct Professor** (on Industrial IoT), School of Electrical and Information Engineering, University of Sydney, Sydney, Australia, 2019.2-present

**Adjunct Professor** (on Industrial Wireless Communication), Department of Intelligent Systems, KTH Royal Institute of Technology, Stockholm, Sweden, 2021.1-present,

**Start-up Entrepreneur/Co-founder**, Shanghai Shengyue Electronics Tech Co. Ltd. (China, 2007.7-2008.7), and Ambigua Medito AB (Sweden, 2008.8-2009.9)

**Department Manager** (2004-2007.07), Project Leader and Product Manager (2003-2004), Chip Design Engineer (2002.07-2003), Nationalchip Sci&Tech Co. Ltd., Hangzhou, China

### HONORS

Supervised master students won the “Automation Student 2022” prize at the annual contest organized by the Automation Region, Swedish Fair, and Swedish Automation, Oct 18, 2022, Gothenburg, Sweden, [News and video](#).

Supervised PhD student won the Final List Award, IES-SYP (Students & Young Professionals) Contest, at the 48th Annual Conference of the IEEE Industrial Electronics Society (IECON2022), Oct 18-22, 2022, Brussels, Belgium, [video](#)

“2021 Inventor of the Year Award”, ABB Corporate Research Sweden

“2018 Inventor of the Year Award”, ABB Corporate Research Sweden

“2016 Inventor of the Year Award”, ABB Corporate Research Sweden

Outstanding Paper Award, for “An In-home Medication Management Solution Based on Intelligent Packaging and Ubiquitous Sensing” at the IEEE International Conference on Advanced Communications Technology (ICACT). Jan 2013, Pyeongchang, Korea

### INDUSTRY FUNDED PROJECTS

Most of my research was funded by ABB internally. Project details cannot be provided in this public document.

### PUBLIC FUNDED PROJECTS

PI, APR20-0023: Making the wireless critical control safe and resilient, funded by Swedish Foundation for Strategic Research (SSF), 1500000SEK, 2021.05-2027.04

Senior Member (responsible for strategy and IPR), PRJ-7646: ABB part of the H2020 project 5G SMART – 5G for smart manufacturing (<https://5gsmart.eu/>), 1500000USD, 2019.06-2021.12

PI, VINNOVA 2015-06548: Ultra-High Performance Wireless Communications for Industrial Applications, funded by Swedish Innovation Agency (VINNOVA), 190500SEK, 2016.01-2017.06

PI, VINNOVA 2017-02822: Ultra-Reliable Low Latency Wireless Communications for Industrial Digitalization, funded by Swedish Innovation Agency (VINNOVA), 296000SEK, 2017.08-2018.01

## **APPOINTMENTS IN ACADEMIC COMMUNITY**

TC Co-Chair, IEEE IES Technical Committee on Industrial Informatics, 2017-present.

Committee Member, IEEE IES Industry Activities Committee, 2020-present

Member, Industrial Wireless Technical Working Group (IWSTWG), National Institute of Standards and Technology (NIST), U.S. Department of Commerce, 2017-present

Award Committee Member, IEEE Technical Committee on Cyber-Physical Systems, 2020-2020

Chair of Sub-TC, Sub-TC on Industrial Internet of Things Services and People, IEEE IES Technical Committee on Industrial Informatics, 2015-2020,

Vice-Chair of Sub-TC, Sub-TC on Internet of Things Optimization, IEEE IES Technical Committee on Cloud and Wireless Systems for Industrial Applications, 2015-2016,

## **EDITORIAL SERVICE**

**Associate Editor**, IEEE Transactions on Industrial Informatics (TII), 2016-present.

**Associate Editor**, IEEE Journal of Biomedical and Health Informatics (JBHI), 2017-present.

**Associate Editor**, IEEE Journal of Emerging and Selected Topics in Industrial Electronics (JESTIE), 2019-present.

## **STANDARDIZATION SERVICE**

Founding Member, Working Group for IEEE P1451.5p: Standard for Radio Frequency Channel Specifications for Performance Assessment of Industrial Wireless Systems, 2021-present

Member, Working Group for IEEE P2805.1: Self-Management Protocols for Edge Computing Node, 2020-present

Member, Working Group for IEEE P2805.2: Data acquisition, Filtering and buffering Protocols for Edge Computing Node, 2020-present

Member, Working Group for IEEE P2805.3: Cloud-Edge Collaboration Protocols for Machine Learning, 2020-present