DUKE UNIVERSITY»   PRATT SCHOOL OF ENGINEERING»

Xin Li

Professor in the Department of Electrical and Computer Engineering

Prof. Xin Li received the Ph.D. degree in Electrical and Computer Engineering from Carnegie Mellon University, Pittsburgh, Pennsylvania, in 2005, and the M.S. and B.S. degrees in Electronics Engineering from Fudan University, Shanghai, China, in 2001 and 1998, respectively.

In 2005, he co-founded Xigmix Inc. to commercialize his PhD research, and served as the Chief Technical Officer until the company was acquired by Extreme DA in 2007. In 2011, Extreme DA was further acquired by Synopsis (Nasdaq: SNPS). From 2009 to 2012, he was the Assistant Director for FCRP Focus Research Center for Circuit & System Solutions (C2S2), a national consortium of 13 research universities (CMU, MIT, Stanford, Berkeley, UIUC, UMich, Columbia, UCLA, among others) chartered by the U.S. semiconductor industry and U.S. Department of Defense to work on next-generation integrated circuit design challenges. From 2014 to 2015, he was the Assistant Director for the Center for Silicon System Implementation (CSSI), a CMU research center with 20 faculty members working on integrated circuits and systems. His research interests include integrated circuit, signal processing and data analytics.

He was an Associate Editor of IEEE Trans. on Biomedical Engineering (TBME), IEEE

Trans. on Computer-Aided Design of Integrated Circuits and Systems (TCAD), ACM Trans. on Design Automation of Electronic Systems (TODAES), IEEE Design & Test (D&T), and Journal of Low Power Electronics (JOLPE). He was the Guest Editor for IEEE TCAD, IEEE T-NANO, IEEE TBD, IEEE D&T, IEEE JETCAS, ACM TCPS, ACM JETC and VLSI Integration. He served on the Executive Committee of ACM Special Interest Group on Design Automation (SIGDA), IEEE Systems, Man, and Cybernetics Society Technical Committee on Cybernetics for Cyber-Physical Systems (TCCCPS), and IEEE Computer Society Technical Committee on VLSI (TCVLSI). He was the General Chair of ISVLSI, iNIS and FAC, and the Technical Program Chair of CAD/Graphics. He also served on the ACM/SIGDA Outstanding PhD Dissertation Award Selection Committee, the IEEE TTTC E. J. McCluskey Best Doctoral Thesis Selection Committee, the IEEE Outstanding Young Author Award Selection Committee, the Executive Committee of ISVLSI, GLSVLSI and iNIS, and the Technical Program Committee of DAC, ICCAD, ITC, ISVLSI, FAC, CAD/Graphics, ASICON and VLSI. He received the NSF Faculty Early Career Development Award (CAREER) in 2012, two IEEE Donald O. Pederson Best Paper Awards in 2013 and 2016, the Best Paper Award from Design Automation Conference (DAC) in 2010, two IEEE/ACM William J. McCalla ICCAD Best Paper Awards in 2004 and 2011, and the Best Paper Award from International Symposium on Integrated Circuits (ISIC) in 2014. In addition to these awards, he also received six Best Paper Nominations from Design Automation Conference (DAC), International Conference on Computer-Aided Design (ICCAD) and Custom Integrated Circuits Conference (CICC).

APPOINTMENTS AND AFFILIATIONS

- Professor in the Department of Electrical and Computer Engineering

CONTACT INFORMATION

- **Office Location:** 2529 CIEMAS Building, Box 90291, Durham, NC 27708
- **Email Address:** xinli.ece@duke.edu
- **Websites:**
  - Li Research Group (http://xinli.pratt.duke.edu)

EDUCATION

- Ph.D. Carnegie Mellon University, 2005
- MR Fudan University (China), 2001

RESEARCH INTERESTS

Integrated circuits, signal processing and data analytics.

AWARDS, HONORS, AND DISTINCTIONS

- Fellow. Institute of Electrical and Electronics Engineers. 2017
- Best Paper Nomination. Design Automation Conference. 2016
- IEEE Donald O. Pederson Best Paper Award. IEEE Council on EDA. 2016
- Best Paper Nomination. Design Automation Conference. 2015
- Best Paper Award. International Symposium on Integrated Circuits. 2014
- Best Paper Nomination. Design Automation Conference. 2014
- Best Paper Nomination. International Conference on Computer-Aided Design. 2014
- IEEE Donald O. Pederson Best Paper Award. IEEE Council on EDA. 2013
- NSF CAREER Award. NSF. 2012
- IEEE/ACM William J. McCalla ICCAD Best Paper Award. IEEE/ACM. 2011
- Best Paper Award. Design Automation Conference. 2010
- Senior Member. Institute of Electrical and Electronics Engineers. 2010
- Winner of Data Analysis Competition. International Conference on Biomagnetism. 2010
- Best Paper Nomination. Design Automation Conference. 2006
- IEEE/ACM William J. McCalla ICCAD Best Paper Award. IEEE/ACM. 2004

COURSES TAUGHT

- COMPSCI 282K: Numerical Methods for Engineering Design and Optimization

REPRESENTATIVE PUBLICATIONS