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**Professional Preparation**

Zhejiang University B.S. Electrical and Computer Engineering, 2004

University of Florida M.S. Electrical and Computer Engineering, 2007

University of Florida Ph.D. Electrical and Computer Engineering, 2009

**Appointments**

Associate Professor Electrical & Computer Engineering, Texas Tech University, 2014 – .

Assistant Professor Electrical & Computer Engineering, Texas Tech University, 2009 –2014.

RFIC Designer Coherent Logix inc., Austin, TX, Jun 2009 – Aug 2009.

RFIC Designer Alereon inc., Austin, TX, May 2008 – Aug 2008.

System Engineer Alereon inc., Austin, TX, May 2007 – Aug 2007.

**Products**

***5 products closely related to the proposed project:***

1. Z. Peng, L. Ran, **C. Li**, “A K-Band Portable FMCW Radar with Beamforming Array for Short-Range Localization and Vital-Doppler Targets Discrimination,” *IEEE Transactions on Microwave Theory and Techniques*, vol. 65, no. 9, pp. 3443-3452, September 2017.
2. Z. Peng, J. Muñoz-Ferreras, Y. Tang, C. Liu, R. Gómez-García, L. Ran, **C. Li**, “A Portable FMCW-Interferometry Radar with Programmable Low-IF Architecture for Localization, ISAR Imaging and Vital-Sign Tracking,” *IEEE Transactions on Microwave Theory and Techniques*, vol. 65, no. 4, pp. 1334–1344, April 2017.
3. C. Gu, G. Wang, Y. Li, T. Inoue, **C. Li**, “A Hybrid Radar-Camera Sensing System With Phase Compensation for Random Body Movement Cancellation in Doppler Vital Sign Detection,” *IEEE Transactions on Microwave Theory and Techniques*, vol. 61, no. 12, pp. 4678-4688, December 2013.
4. **C. Li**, J. Lin, “Microwave Motion Sensing and Analysis”, John Wiley & Sons, ISBN: 978-0470642146, 2013.
5. C. Gu, R. Li, H. Zhang, A. Y. C. Fung, C. Torres, S. B Jiang, **C. Li**, “Accurate Respiration Measurement Using DC-Coupled Continuous-Wave Radar Sensor for Motion-Adaptive Cancer Radiotherapy,” *IEEE Transactions on Biomedical Engineering*, vol. 59, no. 11, pp. 3117-3123, Nov. 2012.

***5 other products:***

1. L. Lu, B. Vosooghi, J. Chen, **C. Li**, “A Subthreshold-MOSFETs-Based Scattered Relative Temperature Sensor Front-End with a Non-Calibrated ±2.5 0C 3σ Relative Inaccuracy from -40 0C to 100 0C,” *IEEE Transactions on Circuits and Systems I: Regular Papers*, vol. 60, no. 5, pp. 1104-1112, May 2013.
2. **C. Li**, X. Yu, C. Lee, L. Ran, J. Lin, “High Sensitivity Software Configurable 5.8 GHz Radar Sensor Receiver Chip in 0.13 µm CMOS for Non-contact Vital Sign Detection,” *IEEE Transactions on Microwave Theory and Techniques*, vol. 58, issue 5, pp. 1410-1419, May 2010.
3. **C. Li**, J. Ling, J. Li, J. Lin, “Accurate Doppler Radar Non-contact Vital Sign Detection Using the RELAX Algorithm”, *IEEE Transactions on Instrumentation and Measurement*, vol. 59, issue 3, pp. 687-695, March 2010.
4. **C. Li**, J. Lin, “Random Body Movement Cancellation in Doppler Radar Vital Sign Detection,” *IEEE Transactions on Microwave Theory and Techniques*, vol. 56, issue 12, pp. 3143-3152, December 2008.
5. **C. Li**, Y. Xiao, J. Lin, "Experiment and Spectral Analysis of a Low-Power Ka-Band Heartbeat Detector Measuring from Four Sides of a Human Body," *IEEE Transactions on Microwave Theory and Techniques*, vol. 54, no. 12, pp. 4464-4471, December 2006.

**Synergistic Activities**

IEEE Chair of the Graduate Fellowship in Medical Applications Committee for IEEE MTT-S; Vice Chair of the ‘MTT-10 Biological Effect and Medical Applications of RF and Microwave’ committee; Demo Track Chair for the IEEE Radio Wireless Week; Serving as Chair of International Microwave Symposium (IMS) Technical Program Review Committee (TPRC)-34: RF systems and instrumentation for healthcare applications; Received the IEEE Sensors Council Early Career Technical Achievement Award in 2016 for contributions to low-power smart radar sensors for healthcare applications; Received the IEEE-HKN Outstanding Young Professional Award in 2014 for professional developments; Received the IEEE MTT-S Graduate Fellowship in 2008 for work on the microwave Doppler radar vital sign detection technology.

Student Mentoring Mentored an undergraduate student team at the Univ. of Florida to form a virtual company, secured funding from both UF IPPD and Armorit llc, FL; Mentored visiting undergraduate students to conduct summer research at TTU: Anthony Flores Nigaglioni from Universidad de Puerto Rico in 2014, Sylvie Ngo from Ecole Nationale Supérieure d'Ingénieurs de Limoges, ENSIL-ENSCI, France in 2017, José Rojas from Universidad Técnica Federico Santa María, UTFSM, Chile in 2017; Mentored students to receive seven best paper awards in IEEE conferences; Received the Frederick Emmons Terman Award (ASEE) for education activities.

Editorial Activities Associate Editor for IEEE TCAS-I; Associate Editor for IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology; Past Associate Editor for IEEE TCAS-II, 2014–2015; Guest Editor for IEEE T-MTT Special Issue on “Emerging RF Measurement Techniques and Applications” in 2016; Guest Editor for Sensors Special Issue on “Non-contact Sensing” in 2016; Reviewer for IEEE T-MTT, IEEE TBME, IEEE TIM, IEEE TIE, IEEE MWCL, IEEE PTL, Electronic Letters, IEEE EMBS, IEEE ISCAS etc.

TPC Chair/Member TPC Co-Chair/Chair for 13th/14th Annual IEEE Wireless and Microwave Technology Conference, 2012/2013; TPC member and session Chair for conferences including IEEE Wireless and Microwave Technology Conference, IEEE Topical Conference on Wireless Sensors and Sensor Networks, IEEE Topical Conference on Biomedical Wireless Technologies, Networks & Sensing Systems, SPIE Radar Sensor Technology Conference.

High School Student Serving as a mentor for the Clark Scholars Program to supervise three high school students from California and Arizona to conduct summer research at TTU; Served multiples times as a judge for the Science & Engineering Fair in Lubbock, TX;