

Feng Lin

CONTACT INFORMATION

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RESEARCH INTERESTS

IoT Security, Smart Vehicle Security, AI Security, Mobile Sensing

RELATED AREAS

IoT, Sensing System, Security and Privacy, AI, Smart Vehicle

RESEARCH HIGHLIGHTS

Inter-discipline: Research in IoT and Wireless Networks (e.g., MobiCom, MobiSys, SenSys, UbiComp, INFOCOM, TMC, TNET, TII), Security and Privacy (e.g., Oakland, CCS, Security, NDSS, TDSC, TIFS).

Publications: I have authored **140** papers including **50** prestigious journal articles and **90** peer-reviewed conference papers. I also have 1 book chapter.

Media Coverage: My work has been reported by many public media including National Public Radio, Wall Street Journal, NSF News, NSF Science360, ACM Technews, The Conversation, TomoNews, 3DPRINT, Science Daily, EurekAlert, Network World, Fedscoop, PACE Today, etc.

Services: I served as Associate Editor for 4 IEEE/International journals. I served on 8 conference Organizational Committees and more than 20 Technical Program Committees of IEEE/ACM conferences. I am a reviewer of more than 30 IEEE journals and 30 conferences.

EMPLOYMENT

Zhejiang University, Hangzhou, China

Professor, Computer Science & Technology, Dec. 2018 - Present

University of Colorado Denver, Colorado

Assistant Professor (tenure track), Computer Science & Engineering, Aug. 2017 - Dec. 2018

University at Buffalo, the State University of New York (SUNY), New York

Research Scientist, Computer Science & Engineering, May 2015 - Aug. 2017

Alcatel-Lucent (currently, Nokia), Shanghai, China

System Integration Engineer, March 2009 - July 2010

EDUCATION

Tennessee Technological University, Tennessee

Ph.D, Electrical and Computer Engineering, 2015

Shanghai University, Shanghai, China

M.S., Communications and Information Engineering, 2009

Zhejiang University, Hangzhou, China

B.S., Electrical and Computer Engineering, 2006

AWARDS AND HONORS

- 2022, Young Changjiang Scholar, Ministry of Education
- 2022, ACM SIGMOBILE Research Highlight
- 2022, Best Paper Award (ACM/IEEE CHASE'22)
- 2022, Best Poster Runner-up Award (ACM MobiCom'22)
- 2021, ACM China SIGSAC Rising Star Award
- 2021, Best Paper Award Nomination, ACM SenSys'21

- 2021, Best Paper Award Nomination, IEEE Infocom'21
- 2020, Best Paper Award, ACM MobiSys'20, [1 out of 175 submissions]
- 2020, 1st Place of Network Technology Challenge in Computer Competition, China
- 2019, Best Paper Award, IEEE Globecom'19
- 2019, 1st Place of National IC Innovation Competition, China
- 2019, Distinguished Expert, Zhejiang Province
- 2018, Best Demo Award, ACM HotMobile'18
- 2018, Cover Story Nomination, IEEE Journal of Biomedical and Health Informatics (J-BHI)
- 2018, Nvidia GPU Grant, Nvidia Corp.
- 2017, New Investigator ERC Award, OSHA/EPA Region II, National Institute for Occupational Safety and Health (NIOSH)
- 2017, Best Paper Award, IEEE BHI'17, [0.3%, 1 out of 322 submissions]
- 2017, Cover Story, IEEE Journal of Biomedical and Health Informatics (J-BHI)
- 2017, Finalist of Global Vodafone Wireless Innovation Competition, [5.3%, 8 out of 150+ submissions]
- 2016, 1st Place Design Award, International 3D Printing Competition, [0.1%, 1 out of 900+]
- 2010, Well Done Award [Top 1%], Alcatel-Lucent Corp.
- 2009, Distinguished College Graduate of Shanghai [Top 1% nationwide]
- 2007, Excellent Student, Shanghai University

BOOKS/BOOK
CHAPTERS

- B1. **Feng Lin**, “*Mobile Security and Privacy*”, in Encyclopedia of Wireless Networks, ISBN 978-3-319-78263-8, Springer 2020.

JOURNAL ARTICLES

- J50. Meng Zhang, Li Lu, Yuhan Wu, Zheng Yan, Jiaqi Sun, **Feng Lin**, Kui Ren, “*DroneAudioID: A Lightweight Acoustic Fingerprint-Based Drone Authentication System for Secure Drone Delivery*”, IEEE Transactions on Information Forensics & Security (**TIFS**), 2025.
- J49. Hao Yan; **Feng Lin***; Jin Li; Meng Zhang; Zhisheng Yan; Jian Xiao; Kui Ren, “*Shadow Based Non-Line-of-Sight Pedestrian Rushing Detection for Automated Driving*”, IEEE Transactions on Mobile Computing (**TMC**), Volume:23, Issue:12, pp 14754-14767, December 2024.
- J48. Xinyu Zhang, Qingyu Liu, Zhongjie Ba, Yuan Hong, Tianhang Zheng, **Feng Lin**, Li Lu, Kui Ren, “*FLTracer: Accurate Poisoning Attack Provenance in Federated Learning*”, IEEE Transactions on Information Forensics & Security (**TIFS**), Volume: 19, pp 9534 - 9549, June 2024.
- J47. Zhongjie Ba; Bin Gong; Yuwei Wang; Yuxuan Liu; Peng Cheng; **Feng Lin**; Li Lu; Kui Ren, “*Indelible “Footprints” of Inaudible Command Injection*”, IEEE Transactions on Information Forensics & Security (**TIFS**), Volume: 19, pp 8485 - 8499, September 2024.
- J46. **Feng Lin***, Chao Wang, Tiantian Liu, Ziwei Liu, Zhongjie Ba, Li Lu, Wenyao Xu, Kui Ren, “*High-quality Speech Recovery Through Soundproof Protections via mmWave Sensing*”, IEEE Transactions on Dependable and Secure Computing (**TDSC**), Volume: 21, Issue: 4, pp 3065 - 3081, July-Aug 2024
- J45. Huan Chen, Xiaoye Qian, Yi Cai, Tianyu Lu, Xiaowei Xu, **Feng Lin**, Shih-Ching Yeh, Ming-Chun Huang, “*Digital Twin for Digital Health: Body Joint Modeling and 3D Pose Reconstruction*”, ACM Transactions on Computing for Healthcare, 2024.
- J44. Anarghya Das, Puru Soni, Ming-Chun Huang, **Feng Lin**, Wenyao Xu, “*Multimodal Speech Recognition Using EEG and Audio Signals: A Novel Approach for Enhancing ASR Systems*”, Smart Health, volume 32, 2024.

- J43. **Feng Lin**, Hao Yan, Jin Li, Ziwei Liu, Li Lu, Zhongjie Ba, Kui Ren, “*PhaDe: Practical Phantom Spoofing Attack Detection for Autonomous Vehicles*”, IEEE Transactions on Information Forensics & Security (**TIFS**), Volume 19, pp 4199 - 4214, March 2024.
- J42. Meng Chen, Li Lu, Jiadi Yu, Zhongjie Ba, **Feng Lin**, Kui Ren, “*AdvReverb: Rethinking the Stealthiness of Audio Adversarial Examples to Human Perception*”, IEEE Transactions on Information Forensics & Security (**TIFS**), Volume 19, pp 1948-1962, March 2024.
- J41. Li Lu, Meng Chen, Jiadi Yu, Zhongjie Ba, **Feng Lin**, Jinsong Han, Yanmin Zhu, Kui Ren, “*An Imperceptible Eavesdropping Attack on WiFi Sensing Systems*”, IEEE/ACM Transactions on Networking (**TNET**), 2024.
- J40. Weiye Xu, Jianwei Liu, Shimin Zhang, Yuanqing Zheng, **Feng Lin**, Fu Xiao, Jinsong Han, “*Anti-Spoofing Facial Authentication Based on COTS RFID*”, IEEE Transactions on Mobile Computing (**TMC**), Volume: 23, Issue: 5, pp 4228-4245, May 2024.
- J39. Ming Gao, Lingfeng Zhang, Leming Shen, Xiang Zou, Jinsong Han, **Feng Lin**, Kui Ren, “*Exploring Practical Acoustic Transduction Attacks on Inertial Sensors in MDOF Systems*”, IEEE Transactions on Mobile Computing (**TMC**), Volume: 23, Issue: 5, pp 3539 - 3557, May 2024.
- J38. Ming Gao, Yike Chen, Yimin Li, Lingfeng Zhang, Jianwei Liu, Li Lu, **Feng Lin**, Jinsong Han, Kui Ren, “*A Resilience Evaluation Framework on Ultrasonic Microphone Jammers*”, IEEE Transactions on Mobile Computing (**TMC**), Volume: 23, Issue: 2, pp 1914-1929, Feb. 2024.
- J37. Tiantian Liu, **Feng Lin***, “*A New mmWave-Speech Multimodal Speech System for Voice User Interface*”, GetMobile: Mobile Computing and Communications, Volume 27, Issue 4, pp 31-35, December 2023.
- J36. Tiantian Liu, Chao Wang, Zhengxiong Li, Ming-Chun Huang, Wenyao Xu, **Feng Lin***, “*Wavoice: A mmWave-assisted Noise-resistant Speech Recognition System*”, IEEE Transactions on Sensor Networks (**TOSN**), 2023.
- J35. Yijie Shen, **Feng Lin***, Chao Wang, Tiantian Liu, Zhongjie Ba, Li Lu, Wenyao Xu, Kui Ren, “*MotoPrint: Reconfigurable Vibration Motor Fingerprint via Homologous Signals Learning*”, IEEE Transactions on Dependable and Secure Computing (**TDSC**), Volume 21, Issue 1, pp 372 - 387, February 2024.
- J34. Peng Cheng, Yuexin Wu, Yuan Hong, Zhongjie Ba, **Feng Lin**, Li Lu, Kui Ren, “*UniAP: Protecting Speech Privacy with Non-targeted Universal Adversarial Perturbations*”, IEEE Transactions on Dependable and Secure Computing (**TDSC**), 2023.
- J33. **Feng Lin**, Ming Gao, Lingfeng Zhang, Yimin Li, Weiye Xu, Jinsong Han, Xian Xu, Wenyao Xu, Kui Ren, “*Mobile Communication Among COTS IoT Devices via a Resonant Gyroscope with Ultrasound*”, IEEE/ACM Transactions on Networking (**TNET**), Volume 31, Issue 3, PP 1026-1041, June 2023.
- J32. Jianwei Liu, Kaiyan Cui, Xiang Zou, Jinsong Han, **Feng Lin**, Kui Ren, “*Reliable Multi-Factor User Authentication with One Single Finger Swipe*”, IEEE/ACM Transactions on Networking (**TNET**), Volume 31, Issue 3, PP 1117-1131, June 2023.
- J31. Zhibo Wang, Defang Liu, Yunan Sun, Xiaoyi Pang, Peng Sun, **Feng Lin**, John CS Lui, Kui Ren, “*A Survey on IoT-enabled Home Automation Systems: Attacks and Defenses*”, IEEE Communications Surveys & Tutorials, Volume: 24, Issue: 4, pp 2292 - 2328, August 2022.
- J30. Huining Li, Chenhan Xu, Aditya Singh Rathore, Zhengxiong Li, Hanbin Zhang, Chen Song, Kun Wang, Lu Su, **Feng Lin**, Kui Ren, Wenyao Xu, “*VocalPrint: A mmWave-based Unmediated Vocal Sensing System for Secure Authentication*”, IEEE Transactions on Mobile Computing (**TMC**), 2022.
- J29. Aditya Singh Rathore, Chenhan Xu, Weijin Zhu, Afee Daiyan, Kun Wang, **Feng Lin**, Kui Ren, and Wenyao Xu, “*Scanning the Voice of Your Fingerprint with Everyday Surfaces*”, IEEE Transactions on Mobile Computing (**TMC**), 2022.

- J28. Hongwei Luo, Chao Wang, Hao Luo, Fan Zhang, **Feng Lin**, and Guoai Xu, “*G2F: A Secure User Authentication for Rapid Smart Home IoT Management*”, IEEE Internet of Things Journal (**IoT-J**), Volume 8, Issue 13, pp: 10884 - 10895, July 2021.
- J27. Hongwei Luo, Yijie Shen, **Feng Lin**, and Guoai Xu, “*Spoofing Speaker Verification System by Adversarial Examples Leveraging the Generalized Speaker Difference*”, Security and Communication Networks, Volume 2021, Feb. 2021.
- J26. Sekhar Rajendran, Zhi Sun, **Feng Lin**, and Kui Ren, “*Injecting Reliable Radio Frequency Fingerprints Using Metasurface for The Internet of Things*”, IEEE Transactions on Information Forensics & Security (**TIFS**), Volume 16, pp 1896-1911, 2021.
- J25. Yijie Shen, Liangcheng Li, Ziwei Liu, Tiantian Liu, Hao Luo, Ting Shen, **Feng Lin**, Kui Ren, “*Stealthy Attack Towards Speaker Recognition Based on One-“Audio Pixel” Perturbation*”, Journal of Computer Research and Development (in Chinese), Volume 58, Issue 11, pp 2350 – 2363, November 2021.
- J24. Ziwei Liu, **Feng Lin**, Kui Ren, “*Attacks Towards the Cross-Technology Communication Between LTE-Unlicensed and WiFi*”, Radio Communications Technology (in Chinese), Volume 47, Issue 4, pp 449-458, 2021.
- J23. Baicheng Chen, Kun Woo Cho, Chenhan Xu, **Feng Lin**, Zhanpeng Jin, and Wenyao Xu, “*A Stimulus-Response Based EEG Biometrics using Mallows Distance*”, CCF Transactions on Networking, 2020.
- J22. **Feng Lin**, Kun Woo Cho, Chen Song, Zhanpeng Jin, and Wenyao Xu, “*Exploring a Brain-based Cancelable Biometrics for Smart Headwear: Concept, Implementation, and Evaluation*”, IEEE Transactions on Mobile Computing (**TMC**), Volume 19, Issue 12, pp 2774 – 2792, 2020. [[Impact Factor: 3.145](#)].
- J21. Fan Zhang, Yiran Zhang, Huilong Jiang, Xiang Zhu, **Feng Lin***, and Kui Ren, “*Precise Methods for Distinguishing S-box Faults in Laser Injection Attacks*”, IET Electronics Letters (**EL**), Volume 55, Issue 25, Pages 1333 – 1335, December 2019.
- J20. **Feng Lin**, Jerry Ajay, Jeanne Langan, Lora Cavuoto, Ifeoma Nwogu, Heamchand Subryan, and Wenyao Xu, “*QM-FORMS: a Portable and Cost-effective Upper Extremity Rehabilitation System*”, Elsevier Smart Health (**SH**), Volume 14, December 2019.
- J19. Xiaowei Xu, **Feng Lin**, Wenyao Xu, Xinwei Yao, Yiyu Shi, Dewen Zeng, and Yu Hu, “*MDA: A Reconfigurable Memristor-based Distance Accelerator for Time Series Mining on Data Centers*”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (**TCAD**). Volume 38, Issue 5, May 2019, Pages 785 - 797. [[Impact Factor: 2.120](#)]
- J18. Zhuolin Yang, Chen Song, **Feng Lin**, Jeanne Langan, and Wenyao Xu, “*A Gait Feature-Rich Timed-Up-and-Go System Using Wearable Foot Sensor*”, IEEE Internet of Things Journal (**IoT-J**), Volume 6, Issue 2, April 2019, Pages 1298 - 1305. [[Impact Factor: 7.568](#)]
- J17. Yingxiao Wu, Zhuolin Yang, **Feng Lin**, and Wenyao Xu, “*Towards Batteryfree and Wireless Sensing for Personalized Ultraviolet Exposure Monitoring*”, IEEE Sensors Journal (**SJ**), Volume 18, Issue 13, July 2018, Pages 5515 - 5521. [[Impact Factor: 2.527](#)]
- J16. Chen Song, Aosen Wang, **Feng Lin**, Jian Xiao, Xinwei Yao, and Wenyao Xu, “*Selective CS: Energy-Efficient Sensing Architecture for Wireless Implantable Neural Decoding*”, IEEE Journal on Emerging and Selected Topics in Circuits and Systems (**JETCAS**), Volume 8, Issue 2, June 2018, Pages 201 - 210. [[Impact Factor: 3.203](#)]
- J15. Xiaowei Xu, **Feng Lin**, Aosen Wang, Xinwei Yao, Qing Lu, Wenyao Xu, Yiyu Shi, and Yu Hu, “*Accelerating Dynamic Time Warping with Memristor-based Customized Fabrics*”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (**TCAD**), Volume 37, Issue 4, April 2018, Pages 729 - 741. [[Impact Factor: 2.120](#)]

- J14. **Feng Lin***, Chen Song*, Aosen Wang*, Mohammadnabi Asmani, Ruogang Zhao, Zhanpeng Jin, Jian Xiao, and Wenyao Xu, “*Tempo-Spatial Compressed Sensing of Organ-on-a-chip for Pervasive Health*”, IEEE Journal of Biomedical and Health Informatics (**J-BHI**) (* equal contribution), Volume 22, Issue 2, March 2018, Pages 325 - 334. [[Impact Factor: 3.485](#)][[Cover Article Nomination](#)]
- J13. **Feng Lin**, Chen Song, Xiaowei Xu, Lora Cavuoto, and Wenyao Xu, “*Patient Handling Activity Recognition Through Pressure-Map Manifold Learning Using a Footwear Sensor*”, Elsevier Smart Health (**SH**), Volume 1, Issue 2, June 2017, Pages 77- 92.
- J12. **Feng Lin**, Aosen Wang, Lora Cavuoto, and Wenyao Xu, “*Towards Unobtrusive Patient Handling Activity Recognition for Injury Reduction among At-Risk Caregivers*”, IEEE Journal of Biomedical and Health Informatics (**J-BHI**), Volume 21, Issue 3, May 2017, Pages 682 - 695. [[Impact Factor: 3.485](#)][[Cover Article](#)]
- J11. **Feng Lin**, Yan Zhuang, Chen Song, Aosen Wang, Yiran Li, Changzhan Gu, Changzhi Li, and Wenyao Xu, “*SleepSense: a Noncontact and Cost-effective Sleep Monitoring System*”, IEEE Transactions on Biomedical Circuits and Systems (**TBioCAS**), Volume 11, Issue 1, February 2017, Pages 189 - 202. [[Impact Factor: 3.657](#)]
- J10. Tri Vu, **Feng Lin**, Nabil Alshurafa, and Wenyao Xu, “*Automatic Dietary Assessment Using Wearable Sensors: a Comprehensive Review*”, MDPI Computers (**Computers**), Volume 6, Issue 1/4, January 2017.
- J9. **Feng Lin**, Aosen Wang, Yan Zhuang, Machiko R. Tomita, and Wenyao Xu, “*Smart Insole: a Wearable Sensor Device for Unobtrusive Gait Monitoring in Daily Life*”, IEEE Transactions on Industrial Informatics (**TII**), Volume 12, Issue 6, December 2016, Pages 2281 - 2291. [[Impact Factor: 7.538](#)]
- J8. Xiaowei Xu, **Feng Lin**, Aosen Wang, Yu Hu, Ming-chun Huang, and Wenyao Xu, “*Body-Earth Mover’s Distance: A Matching-Based Approach for Sleep Posture Recognition*”, IEEE Transactions on Biomedical Circuits and Systems (**TBioCAS**), Volume 10, Issue 5, October 2016, Pages 1023 - 1035. [[Impact Factor: 3.657](#)]
- J7. **Feng Lin**, Yingxiao Wu, Yan Zhuang, Xi Long, and Wenyao Xu, “*Human Gender Classification: A Review*”, International Journal of Biometrics (**IJBM**), Volume 8, Issue 3/4, 2016, Pages 275 - 300.
- J6. Chen Song, Aosen Wang, Kathy Ralabate Doody, Michelle Hartley-McAndrew, Jana Mertz, **Feng Lin**, and Wenyao Xu, “*A Comparative Study of Social Scene Parsing Strategies Between Children With and Without Autism Spectrum Disorder*”, North American Journal of Medicine and Science (**NAJMS**), Volume 9, Issue 3, July 2016, Pages 96 - 103.
- J5. Aosen Wang, **Feng Lin**, Zhanpeng Jin, and Wenyao Xu, “*Ultra-low Power Dynamic Knob in Adaptive Compressed Sensing towards Biosignal Dynamics*”, IEEE Transactions on Biomedical Circuits and Systems (**TBioCAS**), Volume 10, Issue 3, June 2016, Pages 579 - 592. [[Impact Factor: 3.657](#)]
- J4. Aosen Wang, **Feng Lin**, Zhanpeng Jin, and Wenyao Xu, “*A Configurable Energy-Efficient Compressed Sensing Architecture with its Application on Body Sensor Networks*”, IEEE Transactions on Industrial Informatics (**TII**), Volume 12, Issue 1, January 2016, Pages 15 - 27. [[Impact Factor: 7.538](#)]
- J3. **Feng Lin**, Robert C. Qiu, and James P. Browning, “*Spectrum Sensing with Small-Sized Datasets in Cognitive Radio: Algorithms and Analysis*”, IEEE Transactions on Vehicular Technology (**TVT**), Volume 64, Issue 1, January 2015, Pages 77 - 87. [[Impact Factor: 4.057](#)]
- J2. **Feng Lin**, Robert C. Qiu, Zhen Hu, Shujie Hou, James P. Browning, and Michael C. Wicks, “*Generalized FMD Detection for Spectrum Sensing Under Low Signal-to-Noise Ratio*”, IEEE Communications Letters (**CL**), Volume 16, Issue 5, May 2012, Pages 604 - 607. [[Impact Factor: 2.081](#)]

- J1. Hua Li, **Feng Lin**, and Xin Wang, “*Modified PIC Algorithm in Cooperative Communication System*”, Journal of Hefei University of Technology, Volume 33, Issue 7, July 2010, Pages 988 - 992.
- C90. Ziwei Liu, **Feng Lin**, Teshi Meng, Li Lu, Qiang Xue, Kui Ren, “*EMTrig: Physical Adversarial Examples Triggered by Electromagnetic Injection towards LiDAR Perception*”, ACM Conference on Embedded Networked Sensor Systems (**SenSys’24**), November 4–7, 2024, Hangzhou, China.
- C89. Yuke Hu, Jian Lou, Jiaqi Liu, Wangze Ni, **Feng Lin**, Zhan Qin, Kui Ren, “*ERASER: Machine Unlearning in MLaaS via an Inference Serving-Aware Approach*”, ACM Conference on Computer and Communications Security (**CCS’24**), Salt Lake City, USA, October 2024.
- C88. Zhongjie Ba, Qingyu Liu, Zhenguang Liu, Shuang Wu, **Feng Lin**, Li Lu, Kui Ren, “*Exposing the Deception: Uncovering More Forgery Clues for Deepfake Detection*”, Annual AAAI Conference on Artificial Intelligence (**AAAI’24**), Vancouver, Canada, Feb. 2024.
- C87. Tiantian Liu, **Feng Lin***, Zhongjie Ba, Li Lu, Zhan Qin, Kui Ren, **Feng Lin**, Kui Ren, “*MicGuard: A Comprehensive Detection System against Out-of-band Injection Attacks for Different Level Microphone-based Devices*”, USENIX Security Symposium (**Usenix Security’24**), August 2024.
- C86. Chao Wang, **Feng Lin***, Hao Yan, Tong Wu, Wenyao Xu, Kui Ren, **Feng Lin**, Kui Ren, “*VibSpeech: Exploring Practical Wideband Eavesdropping via Bandlimited Signal of Vibration-based Side Channel*”, USENIX Security Symposium (**Usenix Security’24**), August 2024.
- C85. Meng Chen, Xiangyu Xu, Li Lu, Zhongjie Ba, **Feng Lin**, Kui Ren, “*Devil in the Room: Triggering Audio Backdoors in the Physical World*”, USENIX Security Symposium (**Usenix Security’24**), August 2024.
- C84. Kun Wang, Xiangyu Xu, Li Lu, Zhongjie Ba, **Feng Lin**, Kui Ren, “*FraudWhistler: A Resilient, Robust and Plug-and-play Adversarial Example Detection Method for Speaker Recognition*”, USENIX Security Symposium (**Usenix Security’24**), August 2024.
- C83. Peng Cheng, Yuwei Wang, Peng Huang, Zhongjie Ba, Xiaodong Lin, **Feng Lin**, Li Lu, Kui Ren, “*ALIF: Low-Cost Adversarial Audio Attacks on Black-Box Speech Platforms Using Linguistic Features*”, IEEE Symposium on Security and Privacy (**Oakland’24**), May 2024.
- C82. Hao Yan, **Feng Lin***, Jin Li, Meng Zhang, Zhisheng Yan, Jian Xiao, Kui Ren, “*Ghost-Probe: NLOS Pedestrian Rushing Detection with Monocular Camera for Automated Driving*”, ACM Conference on Embedded Networked Sensor Systems (**SenSys’23**), November 2023.
- C81. Yijie Shen, Zhe Ma, **Feng Lin***, Hao Yan, Zhongjie Ba, Li Lu, Wenyao Xu, Kui Ren, “*FingerFaker: Spoofing Attack on COTS Fingerprint Recognition Without Victim’s Knowledge*”, ACM Conference on Embedded Networked Sensor Systems (**SenSys’23**), November 2023.
- C80. Meng Chen, Li Lu, Junhao Wang, Jiadi Yu, Yingying Chen, Zhibo Wang, Zhongjie Ba, **Feng Lin**, Kui Ren, “*VoiceCloak: Adversarial Example Enabled Voice De-Identification with Balanced Privacy and Utility*”, ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT/UbiComp’23**), 2023.
- C79. Lei Wang, Meng Chen, Li Lu, Zhongjie Ba, **Feng Lin**, Kui Ren, “*VoiceListener: A Training-free and Universal Eavesdropping Attack on Built-in Speakers of Mobile Devices*”, ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT/UbiComp’23**), 2023.
- C78. Chao Shuai, Jieming Zhong, Shuang Wu, **Feng Lin**, Zhibo Wang, Zhongjie Ba, Zhenguang Liu, Lorenzo Cavallaro, Kui Ren, “*Locate and Verify: A Two-Stream Network for Improved Deepfake Detection*”, ACM International Conference on Multimedia (**MM’23**), October 2023.
- C77. Kun Pan, Yifang Yin, Yao Wei, **Feng Lin**, Zhongjie Ba, Zhenguang Liu, Zhibo Wang, Lorenzo Cavallaro, Kui Ren, “*DFIL: Deepfake Incremental Learning by Exploiting Domain-invariant Forgery Clues*”, ACM International Conference on Multimedia (**MM’23**), October 2023.

- C76. **Feng Lin***, Kaiqiang Fu, Hao Luo, Ziyue Zhan, Zhibo Wang, Zhenguang Liu, Lorenzo Cavallo, and Kui Ren, “*Cross-Modal and Multi-Attribute Face Recognition: A Benchmark*”, ACM International Conference on Multimedia (**MM’23**), October 2023.
- C75. Tiantian Liu, **Feng Lin***, Chao Wang, Chenhan Xu, Xiaoyu Zhang, Zhengxiong Li, Wenyao Xu, Ming-Chun Huang, Kui Ren, “*WavoID: Robust and Secure Multi-modal User Identification via mmWave-voice Mechanism*”, ACM Symposium on User Interface Software and Technology (**UIST’23**), 2023.
- C74. Huining Li, Xiaoye Qian, Ruokai Ma, Chenhan Xu, Zhengxiong Li, Dongmei Li, **Feng Lin**, Ming-Chun Huang, Wenyao Xu, “*TherapyPal: Towards a Privacy-Preserving Companion Diagnostic Tool based on Digital Symptomatic Phenotyping*”, ACM Annual International Conference on Mobile Computing and Networking (**MobiCom’23**), October 2023.
- C73. Liu Liu, Xinwen Fu, Xiaodong Chen, Jianpeng Wang, Zhongjie Ba, **Feng Lin**, Li Lu, Kui Ren, “*FITS: Matching Camera Fingerprints Subject to Software Noise Pollution*”, ACM Conference on Computer and Communications Security (**CCS’23**), November 2023.
- C72. Tiantian Liu, **Feng Lin***, Zhangsen Wang, Zhongjie Ba, Li Lu, Wenyao Xu, Kui Ren, “*Mag-Backdoor: Beware of Your Loudspeaker as A Backdoor For Magnetic Injection Attacks*”, IEEE Symposium on Security and Privacy (**Oakland’23**), May 2023.
- C71. Peng Huang, Yao Wei, Peng Cheng, Zhongjie Ba, Li Lu, **Feng Lin**, Fan Zhang, Kui Ren, “*InfoMasker: Preventing Eavesdropping Using Phoneme-Based Noise*”, The Network and Distributed System Security Symposium (**NDSS’23**), February 2023.
- C70. Xingyu Chen, Zhengxiong Li, Baicheng Chen, Yi Zhu, Chris Xiaoxuan Lu, Zhengyu Peng, **Feng Lin**, Wenyao Xu, Kui Ren, Chunming Qiao, “*MetaWave: Attacking mmWave Sensing with Meta-material-enhanced Tags*”, The Network and Distributed System Security Symposium (**NDSS’23**), February 2023.
- C69. Zhongjie Ba, Qing Wen, Peng Cheng, Yuwei Wang, **Feng Lin**, Li Lu, Zhenguang Liu, “*Transferring Audio Deepfake Detection Capability across Languages*”, Web Conference 2023 (**WWW’23**), April 2023.
- C68. Junhao Wang, Li Lu, Zhongjie Ba, **Feng Lin**, Kui Ren, “*Shift To Your Device: Data Augmentation For Device-Independent Speaker Verification Anti-Spoofing*”, IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP’23), June 2023.
- C67. Ziwei Liu, **Feng Lin***, Chao Wang, Yijie Shen, Zhongjie Ba, Li Lu, Wenyao Xu, Kui Ren, “*CamRadar: Hidden Camera Detection Leveraging Amplitude-modulated Sensor Images Embedded in Electromagnetic Emanations*”, ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT/UbiComp’23**), January 2023.
- C66. Zhanglei Shu, Zhangsen Wang, Guozheng Yang, Cheng Zang, Zhe Ma, **Feng Lin***, Kui Ren, “*A Low-cost and Deployable Authentication System with Fingertip Sliding Sound*”, IEEE International Conference on Parallel and Distributed Systems (ICPADS’22), January 2022.
- C65. Qianniu Chen, Meng Chen, Li Lu, Jiadi Yu, Yingying Chen, Zhibo Wang, Zhongjie Ba, **Feng Lin**, Kui Ren, “*Push the Limit of Adversarial Example Attack on Speaker Recognition in Physical Domain*”, 20th ACM Conference on Embedded Networked Sensor Systems (**SenSys’22**), November 2022.
- C64. Ming Gao, Lingfeng Zhang, Leming Shen, Xiang Zou, Jinsong Han, **Feng Lin**, Kui Ren, “*KITE: Exploring the Practical Threat from Acoustic Transduction Attacks on Inertial Sensors*”, 20th ACM Conference on Embedded Networked Sensor Systems (**SenSys’22**), November 2022.
- C63. Yi Cai, Xiaoye Qian, Qin Li, **Feng Lin**, Ming-Chun Huang, “*Closed-looped Sensing and Stimulation System for Parkinson’s Disease Early Diagnosis and Rehabilitation*”, IEEE/ACM International Conference on Connected Health: Applications, Systems and Engineering Technologies (**CHASE’22**), November 2022. [*Best Paper Award*]

- C62. Chao Wang, **Feng Lin***, Tiantian Liu, Kaidi Zheng, Zhibo Wang, Zhengxiong Li, Mingchun Huang, Wenyao Xu, Kui Ren, “*mmEve: Eavesdropping on Smartphone’s Earpiece via COTS mmWave Device*”, ACM Annual International Conference on Mobile Computing and Networking (**MobiCom’22**), October 2022.
- C61. Meng Chen, Li Lu, Jiadi Yu, Yingying Chen, Zhongjie Ba, **Feng Lin**, Kui Ren, “*A Non-intrusive and Adaptive Speaker De-Identification Scheme Using Adversarial Examples*”, 28th Annual International Conference on Mobile Computing and Networking (**MobiCom’22**), October 2022. [*Best Poster Runner-up Award*]
- C60. Chao Wang, **Feng Lin***, Zhongjie Ba, Fan Zhang, Wenyao Xu, Kui Ren, “*Wavesdropper: Through-wall Word Detection of Human Speech via Commercial mmWave Devices*”, ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT/UbiComp’22**), July 2022.
- C59. Zhengxiong Li, Baicheng Chen, Xingyu Chen, Chenhan Xu, Yuyang Chen, **Feng Lin**, Changzhi Li, Karthik Dantu, Kui Ren, Wenyao Xu, “*Reliable Digital Forensics in the Air: Exploring an RF-based Drone Identification System*”, ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT/UbiComp’22**), July 2022.
- C58. Li Lu, Zhongjie Ba, **Feng Lin**, Jinsong Han, Kui Ren, “*ActListener: Imperceptible Activity Surveillance by Pervasive Wireless Infrastructures*”, IEEE International Conference on Distributed Computing Systems (IEEE International Conference on Distributed Computing Systems (ICDCS’22)), July 2022.
- C57. Aditya Singh Rathore, Yijie Shen, Chenhan Xu, Jacob Snyderman, Jinsong Han, Fan Zhang, Zhengxiong Li, **Feng Lin**, Wenyao Xu, Kui Ren, “*FakeGuard: Exploring Haptic Response to Mitigate the Vulnerability in Commercial Fingerprint Anti-Spoofing*”, The Network and Distributed System Security Symposium (**NDSS’22**), April 2022.
- C56. Zhengxiong Li, Baicheng Chen, Xingyu Chen, Huining Li, Chenhan Xu, **Feng Lin**, Chris Xiaoxuan Lu, Kui Ren, Wenyao Xu, “*SpiralSpy: Exploring a Stealthy and Practical Covert Channel to Attack Air-gapped Computing Devices via mmWave Sensing*”, The Network and Distributed System Security Symposium (**NDSS’22**), April 2022.
- C55. Chao Wang, **Feng Lin***, Tiantian Liu, Ziwei Liu, Yijie Shen, Zhongjie Ba, Li Lu, Wenyao Xu, Kui Ren, “*mmPhone: Acoustic Eavesdropping on Loudspeakers via mmWave-characterized Piezoelectric Effect*”, IEEE International Conference on Computer Communications (**INFOCOM’22**), May 2022.
- C54. Yike Chen, Ming Gao, Yimin Li, Lingfeng Zhang, Li Lu, **Feng Lin**, Jinsong Han, Kui Ren, “*Big Brother is Listening: An Evaluation Framework on Ultrasonic Microphone Jammers*”, IEEE International Conference on Computer Communications (**INFOCOM’22**), May 2022.
- C53. Ziwei Liu, Linzhong Xu, **Feng Lin***, Zhangsen Wang, Kui Ren, “*CTJammer: A Cross-Technology Reactive Jammer towards Unlicensed LTE*”, ACM/IEEE Conference on Internet of Things Design and Implementation (**IoTDI’22**), May 2022.
- C52. Tiantian Liu, Ming Gao, **Feng Lin***, Chao Wang, Zhongjie Ba, Jinsong Han, Wenyao Xu, Kui Ren, “*Wavevoice: A Noise-resistant Multi-modal Speech Recognition System Fusing mmWave and Audio Signals*”, ACM Conference on Embedded Networked Sensor Systems (**SenSys’21**), November 2021. [*SIGMOBILE Research Highlights Paper, Best Paper Award Nomination*]
- C51. Weiye Xu, Jianwei Liu, Shimin Zhang, Yuanqing Zheng, **Feng Lin**, Jinsong Han, Fu Xiao, and Kui Ren, “*RFace: Anti-Spoofing Facial Authentication Using COTS RFID*”, IEEE International Conference on Computer Communications (**INFOCOM’21**), May 2021. [*Best Paper Award Nomination*]
- C50. Jianwei Liu, Xiang Zou, **Feng Lin**, Jinsong Han, Xian Xu, and Kui Ren, “*Hand-Key: Leveraging Multiple Hand Biometrics for Attack-Resilient User Authentication Using COTS RFID*”, IEEE International Conference on Distributed Computing Systems (**ICDCS’21**), July 2021.

- C49. Liu Liu, Hanlin Yu, Zhongjie Ba, Li Lu, **Feng Lin**, and Kui Ren, “*PassFace: Enabling Practical Anti-Spoofing Facial Recognition with Camera Fingerprinting*”, IEEE International Conference on Communications (**ICC’21**), June 2021.
- C48. Huining Li, Chenhan Xu, Aditya Singh Rathore, Zhengxiong Li, Hanbin Zhang, Chen Song, Kun Wang, Lu Su, **Feng Lin**, Kui Ren, and Wenyao Xu, “*VocalPrint: Exploring A Resilient and Secure Voice Authentication via mmWave Biometric Interrogation*”, ACM Conference on Embedded Networked Sensor Systems (**SenSys’20**), Yokohama, Japan, November 2020.
- C47. Ming Gao, **Feng Lin**, Weiye Xu, Muertikepu Nuermaiti, Jinsong Han, Wenyao Xu, and Kui Ren, “*Deaf-Aid: Mobile IoT Communication Exploiting Stealthy Speaker-to-Gyroscope Channel*”, The 26rd ACM Annual International Conference on Mobile Computing and Networking (**MobiCom’20**), London, UK, September 2020.
- C46. Aditya Singh Rathore, Weijin Zhu, Afee Daiyan, Chenhan Xu, Kun Wang, **Feng Lin**, Kui Ren, and Wenyao Xu, “*SonicPrint: A Generally Adoptable and Secure Fingerprint Biometrics in Smart Devices*”, ACM 18th International Conference on Mobile Systems, Applications, and Services (**MobiSys’20**), Toronto, Canada, June 2020. [*Best Paper Award*]
- C45. Jianwei Liu, Xiang Zou, Jinsong Han, **Feng Lin**, and Kui Ren, “*BioDraw: Reliable Multi-Factor User Authentication with One Single Finger Swipe*”, 2020 IEEE/ACM 28th International Symposium on Quality of Service (**IWQoS’20**), Hangzhou, China, June 2020.
- C44. Chao Wang, Linzhu Fang, Yongdong Wu, **Feng Lin**, and Kui Ren, “*Secure Remote Key Initialization of Wireless IoT*”, 2020 ACM/IEEE Conference on Internet of Things Design and Implementation (**IoTDP’20**), Sydney, Australia, April 2020 (Poster).
- C43. Shiqing Luo, Anh Nguyen, Chen Song, **Feng Lin**, Wenyao Xu, and Zhisheng Yan, “*OcuLock: Exploring Human Visual System for Authentication in Virtual Reality Head-mounted Display*”, The Network and Distributed System Security Symposium (**NDSS’20**), San Diego, February, 2020.
- C42. Fei Wang, Jinsong Han, **Feng Lin***, and Kui Ren, “*WiPIN: Operation-free Passive Person Identification Using Wi-Fi Signals*”, IEEE Global Communications Conference (**GLOBECOM’19**), Waikoloa, HI, December 2019. [*Best Paper Award*]
- C41. Baicheng Chen, Zhengxiong Li, Zhuolin Yang, Changzhi Li, **Feng Lin**, and Wenyao Xu, “*E-Eye: mmWave Nonlinear Response for Hidden Electronic Device Recognition*”, ACM Conference on Embedded Networked Sensor Systems (**SenSys’19**), New York, USA, November 2019. (Demo)
- C40. Baicheng Chen, Kun Woo Cho, Chenhan Xu, **Feng Lin**, Zhanpeng Jin, and Wenyao Xu, “*Exploiting Mallows Distance to Quantify EEG Distribution for Personal Identification*”, IEEE Conference on Dependable and Secure Computing (**IDSC’19**), Hangzhou, China, November 2019.
- C39. Hanbin Zhang, Chenhan Xu, Huining Li, Aditya Singh Rathore, Chen Song, Zhisheng Yan, Dongmei Li, **Feng Lin***, Kun Wang*, and Wenyao Xu*, “*PDMove: Towards Passive Medication Adherence Monitoring of Parkinson’s Disease Using Smartphone-based Gait Assessment*”, ACM Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT/UbiComp’19**), Volume 3, Issue 3, Article No. 123, September 2019.
- C38. Jinsong Han, **Feng Lin**, Wenbo Shen, Kui Ren, “*Trustworthy Authentication for IoT with Human-and-Environment-in-the-Loop*”, ACM/IEEE 4th International Workshop on Social Sensing (**SocialSens’19**), Montreal, Canada, April 2019.
- C37. **Feng Lin**, Kun Woo Cho, Chen Song, Wenyao Xu, and Zhanpeng Jin, “*Brain Password: A Secure and Truly Cancelable Brain Biometrics for Smart Headwear*”, ACM 16th International Conference on Mobile Systems, Applications, and Services (**MobiSys’18**), Munich, Germany, June 2018.

- C36. Hawkar Oagaz, Anurag Sable, Min-Hyung Choi, Wenyao Xu, and **Feng Lin**, “*VRInsole: An Unobtrusive and Immersive Mobility Training System for Stroke Rehabilitation*”, IEEE 15th International Conference on Wearable and Implantable Body Sensor Networks (**BSN’18**), Las Vegas, NV, March 2018.
- C35. Zhengxiong Li, Michael Brown, Junqi Wu, **Feng Lin**, Jeanne Langan, and Wenyao Xu, “*Development and Evaluation of a Multimodal Sensor Motor Learning Assessment*”, IEEE 15th International Conference on Wearable and Implantable Body Sensor Networks (**BSN’18**), Las Vegas, NV, March 2018.
- C34. Tri Vu, Hoan Tran, Chen Song, **Feng Lin**, Jeanne Langan, Lora Cavuoto, and Wenyao Xu, “*BiGRA: A Preliminary Bilateral Hand Grip Coordination Rehabilitation Using Home-Based Evaluation System for Stroke Patients*”, IEEE 15th International Conference on Wearable and Implantable Body Sensor Networks (**BSN’18**), Las Vegas, NV, March 2018.
- C33. Zhisheng Yan, Chen Song, **Feng Lin**, and Wenyao Xu, “*Exploring Eye Adaptation in Head-Mounted Display for Energy Efficient Smartphone Virtual Reality*”, ACM 19th International Workshop on Mobile Computing Systems and Applications (**HotMobile’18**), Tempe, AZ, Feb 2018. [*Best Demo Award*]
- C32. **Feng Lin**, Chen Song, Yan Zhuang, Wenyao Xu, Changzhi Li, and Kui Ren, “*Cardiac Scan: a Non-contact and Continuous Authentication System*”, The 23rd ACM Annual International Conference on Mobile Computing and Networking (**MobiCom’17**), Snowbird, Utah, October 2017. [*18.8% acceptance rate (35/186)*]
- C31. Zhuolin Yang, Chen Song, **Feng Lin**, Jeanne Langan, and Wenyao Xu, “*Empowering a Gait Feature-Rich Timed-Up-and-Go System for Complex Ecological Environments*”, IEEE International Conference on Connected Health: Applications, Systems and Engineering Technologies (**CHASE’17**), Philadelphia, Pennsylvania, July 2017.
- C30. Tri Vu, Hoan Tran, **Feng Lin**, Jeanne Langan, Lora Cavuoto, and Wenyao Xu, “*A Home-based Functional Hand-Extremity Assessment System for Stroke Rehabilitation*”, IEEE International Conference on Connected Health: Applications, Systems and Engineering Technologies (**CHASE’17**), Philadelphia, Pennsylvania, July 2017 (Demo).
- C29. Zhuolin Yang, **Feng Lin**, Jeanne Langan, Lora Cavuoto, and Wenyao Xu, “*Validation of Smart Insole for Gait Analysis*”, IEEE International Conference on Connected Health: Applications, Systems and Engineering Technologies (**CHASE’17**), Philadelphia, Pennsylvania, July 2017 (Poster).
- C28. Chen Song, Aosen Wang, **Feng Lin**, Ruogang Zhao, Zhanpeng Jin, and Wenyao Xu, “*A Tempo-Spatial Compressed Sensing Architecture for Efficient High-throughput Information Acquisition in Organs-on-a-chip*”, The IEEE International Conference on Biomedical and Health Informatics 2017 (**BHI’17**), Orlando, Florida, February 2017. [*Best Paper Award: 0.3%, 1 out of 322 submissions*]
- C27. Tri Vu, Hoan Tran, Kun Woo Cho, Chen Song, **Feng Lin**, Chang Wen Chen, Michelle Hartley-McAndrew, Kathy Ralabate Doody, and Wenyao Xu “*Effective and Efficient Visual Stimuli Design for Quantitative Autism Screening: an Exploratory Study*”, The IEEE International Conference on Biomedical and Health Informatics 2017 (**BHI’17**), Orlando, Florida, February, 2017.
- C26. Chen Song, **Feng Lin**, Zhongjie Ba, Kui Ren, Chi Zhou, and Wenyao Xu, “*My Smartphone Knows What You Print: Exploring Mobiles-based Side-channel Attacks Against 3D Printer*”, 23rd ACM Conference on Computer and Communications Security (**CCS’16**), Vienna, Austria, October, 2016. [*16.5% acceptance rate (137/831)*]
- C25. Kun Woo Cho, **Feng Lin**, Chen Song, Xiaowei Xu, Michelle Hartley-McAndrew, Kathy Ralabate Doody, and Wenyao Xu, “*Gaze-Wasserstein: a Quantitative Screening Approach to Autism Spectrum Disorders*”, IEEE Wireless Health 2016 (**WH’16**), Bethesda, Maryland, October, 2016. [*18.2% acceptance rate (16/88)*]

- C24. **Feng Lin**, Jerry Ajay, Jeanne Langan, Lora Cavuoto, Ifeoma Nwogu, Heamchand Subryan, and Wenyao Xu, “*A Portable and Cost-Effective Upper Extremity Rehabilitation System for Individuals with Upper Limb Motor Deficits*”, IEEE Wireless Health 2016 (**WH’16**), Bethesda, Maryland, October, 2016. [[18.2% acceptance rate \(16/88\)](#)]
- C23. Fan Yang, **Feng Lin**, Chi Zhou, Zhanpeng Jin, and Wenyao Xu, “*PBench: A Benchmark Suite for Characterizing 3D Printing Prefabrication*”, 2016 IEEE International Symposium on Workload Characterization (**IISWC’16**), Providence, Rhode Island, September 2016.
- C22. **Feng Lin**, Chen Song, Xiaowei Xu, Lora Cavuoto, and Wenyao Xu, “*Sensing From the Bottom: Smart Insole Enabled Patient Handling Activity Recognition Through Manifold Learning*”, IEEE International Conference on Connected Health: Applications, Systems and Engineering Technologies (**CHASE’16**), Washington D.C., June 2016.
- C21. Matthew Stafford, **Feng Lin**, and Wenyao Xu, “*Flappy Breath: A Smartphone-Based Breath Exergame*”, IEEE International Conference on Connected Health: Applications, Systems and Engineering Technologies (**CHASE’16**), Washington D.C., June 2016, Demo.
- C20. Weihao Qu, **Feng Lin**, and Wenyao Xu, “*A Real-time Low-complexity Fall Detection System On Android Platform*”, IEEE International Conference on Connected Health: Applications, Systems and Engineering Technologies (**CHASE’16**), Washington D.C., June 2016, Poster.
- C19. Kun Woo Cho, **Feng Lin**, Chen Song, Xiaowei Xu, Fuxiang Gu, and Wenyao Xu, “*Thermal Handprint Analysis for Forensic Identification using Heat-Earth Mover’s Distance*”, IEEE International Conference on Identity, Security and Behavior Analysis (**ISBA’16**), Sendai, Japan, February 2016.
- C18. **Feng Lin**, Xiaowei Xu, Aosen Wang, Lora Cavuoto, and Wenyao Xu, “*Automated Patient Handling Activity Recognition for At-Risk Caregivers Using an Unobtrusive Wearable Sensor*”, IEEE International Conference on Biomedical and Health Informatics (**BHI’16**), Las Vegas, Nevada, February 2016.
- C17. Chen Song, Aosen Wang, Michelle Hartley-McAndrew, Kathy Doody, Jana Mertz, **Feng Lin**, and Wenyao Xu, “*Analyzing Dynamic Components of Social Scene Parsing Strategy in Autism Spectrum Disorder*”, IEEE International Conference on Biomedical and Health Informatics (**BHI’16**), Las Vegas, Nevada, February 2016.
- C16. Yan Zhuang, Chen Song, **Feng Lin**, Yiran Li, Changzhi Li, and Wenyao Xu, “*On the Feasibility of Non-contact Cardiac Motion Sensing for Emerging Heart-based Biometrics*”, IEEE Radio and Wireless Week (**RWW’16**), Austin, Texas, January 2016.
- C15. Hanqing Zhou, Yu Hu, Guangyu Yu, Zeyu Yan, **Feng Lin**, Xiaowei Xu, and Wenyao Xu, “*An Energy-efficient Pipelined DTW Architecture on Hybrid Embedded Platforms*”, IEEE International Green and Sustainable Computing Conference (**IGSC’15**), Las Vegas, Nevada, December 2015.
- C14. Weihao Qu, **Feng Lin**, Aosen Wang, and Wenyao Xu, “*Evaluation of a Low-complexity Fall Detection Algorithm on Wearable Sensor towards Falls and Fall-alike Activities*”, IEEE Signal Processing in Medicine and Biology Symposium (**SPMB’15**), Philadelphia, Pennsylvania, December 2015.
- C13. **Feng Lin**, Aosen Wang, Chen Song, Zhinan Li, Qin Li, and Wenyao Xu, “*A Comparative Study of Smart Insole on Real-World Step Count*”, IEEE Signal Processing in Medicine and Biology Symposium (**SPMB’15**), Philadelphia, Pennsylvania, December 2015.
- C12. Xiaowei Xu, **Feng Lin**, Aosen Wang, Chen Song, Yu Hu, and Wenyao Xu, “*On-Bed Sleep Posture Recognition Based on Body-Earth Mover’s Distance*”, IEEE Biomedical Circuits & Systems Conference (**BioCAS’15**), Atlanta, Georgia, October 2015.
- C11. Aosen Wang, Chen Song, Xiaowei Xu, **Feng Lin**, Zhanpeng Jin, and Wenyao Xu, “*Selective and Compressive Sensing for Energy-Efficient Implantable Neural Decoding*”, IEEE Biomedical Circuits & Systems Conference (**BioCAS’15**), Atlanta, Georgia, October 2015.

- C10. Yan Zhuang, **Feng Lin**, Eun-Hye Yoo, and Wenyao Xu, “*AirSense: A Portable Context-sensing Device for Personal Air Quality Monitoring*”, ACM 5th International Workshop on Pervasive Wireless Healthcare (**MobileHealth’15**), Hangzhou, China, June 2015.
- C9. Yan Zhuang, Chen Song, Aosen Wang, **Feng Lin**, Yiran Li, Changzhan Gu, Changzhi Li, and Wenyao Xu, “*Non-invasive Sleep Event Recognition Using An Electromagnetic Probe*”, IEEE 12th Annual International Body Sensor Networks Conference (**BSN’15**), Boston, Massachusetts, June 2015.
- C8. **Feng Lin**, Zhen Hu, Robert C. Qiu, and Michael C. Wicks, “*A Combination of Quickest Detection with Oracle Approximating Shrinkage Estimation and Its Application to Spectrum Sensing in Cognitive Radio*”, IEEE Military Communications Conference (**MILCOM’12**), Orlando, Florida, October 2012.
- C7. **Feng Lin**, Robert C. Qiu, James P. Browning, and Michael C. Wicks, “*Target Detection with Function of Covariance Matrices under Clutter Environment*”, IET International Conference on Radar Systems, Glasgow, United Kingdom, October 2012.
- C6. Zhe Chen, Changchun Zhang, **Feng Lin**, Jingzhi Yu, Xia Li, Yu Song, Raghu Ranganathan, Nan Guo, and Robert C. Qiu, “*Towards A Large-Scale Cognitive Radio Network: Testbed, Intensive Computing, Frequency Agility and Security*”, IEEE International Conference on Computing, Networking and Communications (**ICNC’12**), Maui, Hawaii, January 2012.
- C5. **Feng Lin**, Robert C. Qiu, Zhen Hu, Shujie Hou, Lily Li, James P. Browning, and Michael C. Wicks, “*Cognitive Radio Network as Sensors: Low Signal-to-Noise Ratio Collaborative Spectrum Sensing*”, IEEE Waveform Diversity and Design Conference (**WDDC’12**), Kauai, Hawaii, January 2012.
- C4. **Feng Lin**, Zhen Hu, Shujie Hou, Jingzhi Yu, Changchun Zhang, Nan Guo, Michael C. Wicks, Robert C. Qiu, and Kenneth Currie, “*Cognitive Radio Network as Wireless Sensor Network: Security Consideration*”, IEEE National Aerospace and Electronics Conference (**NAECON’11**), Dayton, Ohio, July 2011.
- C3. Jingzhi Yu, Changchun Zhang, Zhen Hu, **Feng Lin**, Nan Guo, Michael C. Wicks, Robert C. Qiu, Kenneth Currie, and Lily Li, “*Cognitive Radio Network as Wireless Sensor Network: Architecture, Testbed, and Experiment*”, IEEE National Aerospace and Electronics Conference (**NAECON’11**), Dayton, Ohio, July 2011.
- C2. **Feng Lin**, Huimin Chen, Zhuo Wu, and Yixin Han, “*A modified PIC method used in Cooperative Communication System under Imperfect Synchronization*”, IET 2nd International Conference on Wireless, Mobile and Multimedia Networks, Beijing, China, October 2008.
- C1. Yixin Han, Huimin Chen, Zhuo Wu, and **Feng Lin**, “*A Feedback Reduced Random Beamforming Algorithm Based on Opportunistic Eigen-beamforming System*”, IET 2nd International Conference on Wireless, Mobile and Multimedia Networks, Beijing, China, October 2008.

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MEDIA COVERAGE

- R23. “*My thoughts are my password, because my brain reactions are unique*”, The Conversation, October 25, 2018
- R22. “*Your heart could be the new passcode for your phone*”, TomoNews, September 28, 2017
- R21. “*Goodbye, login. Hello, heart scan*”, UB News, September 25, 2017
- R20. “*Student develops smartphone app for early autism detection*”, UPI, November 11, 2016
- R19. “*Smartphone app for early autism detection being developed by UB undergrad*”, UB News, November 11, 2016
- R18. “*The spy who hacked me: Measuring the security vulnerabilities of 3-D printing*”, NSF Science360, October 17, 2016
Video link: <https://news.science360.gov/obj/video/f7dd74da-fb92-449a-8b26-7fcd2933f132/spy-hacked-measuring-security-vulnerabilities-3-d-printing>

- R17. “3D printers hackable via smartphone”, Network World, September 21, 2016
- R16. “Bad vibrations, part II: Smartphone hacks 3D printer by measuring ‘leaked’ energy and acoustic waves”, Plastics Today, September 14, 2016
- R15. “Smartphone hack exposes vulnerability of 3D printing”, PACE Today, September 13, 2016
- R14. “Smartphones can steal 3D printing plans by listening to the printer”, Fedscoop, September 9, 2016
- R13. “Top secret designs could be stolen from 3D printers using an ordinary smartphone”, Digital Trends, September 8, 2016
- R12. “More to Worry About: IP Thieves Could Use Smartphones to Steal Design Data from Your 3D Printer in Action!”, 3dprint, September 8, 2016
- R11. “UB study exposes security vulnerabilities in 3D printing”, UBNOW, September 8, 2016
- R10. “Smartphone hacks 3D printer by measuring ‘leaked’ energy and acoustic waves”, NSF News, ACM Technews, Science Daily, Phys, EurekAlert, Newswise, Public, UB News, September 7, 2016
- R9. “Students design 3D printed shoes with a message for world peace”, 3ders, July 6, 2016
- R8. “University at Buffalo Students Promote World Peace with 3D Printed Shoes”, 3dprint, July 5, 2016
- R7. “3D Printed Shoe - Technology Meets Art to Shape a Better Future”, Buffalo Rising, June 30, 2016
- R6. “Shoe design gives UB students win in international 3-D printing competition”, UBNOW, May 16, 2016
- R5. “Can Your Ears Help Control Your Stomach?”, The Wall Street Journal, April 15, 2016
- R4. “UB Researcher creates necklace that counts calories by listening to chews”, Sky News London, March 26, 2016
- R3. “This Necklace Counts Calories by Listening to You Chew”, Mobihealthnews, March 19, 2016
- R2. “AutoDietary necklace that ‘hears what you eat’ could help you manage your diet”, Lives-mart, March 18, 2016
- R1. “A Necklace That Measures Caloric Intake?”, Medicaldaily, March 17, 2016

ACTIVITIES

Associate Editor:

- IEEE Network
- IET Information Security
- Security and Communication Networks
- MDPI Electronics

Conference Organizational Committee:

- *TPC Chair*, the 1st ACM Workshop on AI Empowered Mobile and Wireless Sensing (**Morse’22**)
- *Security and Blockchain Track Co-chair*, IEEE International Conference on Parallel and Distributed Systems (**ICPADS’22**)
- *Session Chair*, IEEE International Conference on Mobile Ad-Hoc and Smart Systems (**MASS’21**)
- *Session Chair*, The Network and Distributed System Security Symposium (**NDSS’21**)
- *Publicity Chair*, ACM International Workshop on Pervasive Wireless Health (**WiSec’20**)
- *Publicity Chair*, ACM/IEEE International Conference on Internet of Things Design and Implementation (**IoTDI’20**)
- *Publication Chair*, IEEE Conference on Dependable and Secure Computing (**IDSC’19**)

- *Session Chair*, IEEE Global Communication Conference (**Globecom'19**)

Technical Program Committee (TPC):

- ACM Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), 2024
- ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN), 2024
- ACM Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), 2023
- International Conference on Information and Communications Security (ICICS), 2023
- ACM Conference on Embedded Networked Sensor Systems (SenSys), 2022
- ACM International Conference On Mobile Computing And Networking (MobiCom), 2022
- ACM Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), 2022
- ACM/IEEE Conference on Internet of Things Design and Implementation (IoTDI), 2022
- ACM Conference on Embedded Networked Sensor Systems (SenSys), 2021
- IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS), 2021
- IEEE International Conference on Parallel and Distributed Systems (ICPADS), 2021
- International Conference on Big Data Computing and Communications (BIGCOM), 2021
- IEEE/ACM Conference on Connected Health Applications, Systems, and Engineering Technologies (CHASE), 2021
- IEEE International Conference on Distributed Computing Systems (ICDCS), 2020
- IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS), 2018, 2019
- IEEE International Conference on Parallel and Distributed Systems (ICPADS), 2018
- IEEE International Conference On Trust, Security And Privacy In Computing and Communications (TrustCom), 2018
- National Cyber Summit (NCS) 2018
- IEEE Conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE), 2018
- IEEE Annual Body Sensor Networks Conference (BSN), 2018
- International Conference on Security, Privacy and Anonymity in Computation, Communication and Storage, 2017
- EAI International Conference on Body Area Networks (BodyNets), 2016

Reviewer for Journals:

- IEEE Transactions on Mobile Computing (**TMC**)
- IEEE Transactions on (**TDSC**)
- IEEE (**TIFS**)
- IEEE (**IoT-J**)
- IEEE Transactions on Signal Processing (**TSP**)
- IEEE Journal on Selected Areas in Communications (**JSAC**)
- IEEE Transactions on Wireless Communications (**TWC**)
- IEEE Transactions on Communications (**TCOM**)
- IEEE Transactions on Vehicular Technology (**TVT**)
- IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (**TCAD**)
- IEEE Transactions on Affective Computing (**TAC**)

- IEEE Transactions on Biomedical Circuits and Systems (**TBioCAS**)
- IEEE Journal of Biomedical and Health Informatics (**J-BHI**)
- IEEE Transactions on Instrumentation & Measurement (**TIM**)
- IEEE Sensors Journal (**SJ**)
- IEEE Communications Letters (**CL**)
- IEEE Wireless Communications Letters (**WCL**)