CHULHONG **MIN**

PRINCIPAL RESEARCH SCIENTIST AND TECH LEAD · DEVICE SYSTEMS · PERVASIVE SYSTEMS · NOKIA BELL LABS, CAMBRIDGE, UK

Broers Building, 21 J J Thomson Avenue, Cambridge, CB3 0FA, United Kingdom

Research Profile

I am currently working as a Principal Research Scientist at Nokia Bell Labs in Cambridge, UK, where I lead the Device Systems team. My research focuses on developing multi-device AI systems that enable collaborative, interactive, and privacy-preserving services. With the rapid advancements in wearable technology and ultra-low-power AI accelerators, our body is evolving into a network of AI-powered processing units with diverse sensors. In synergy with nearby space-embedded IoT devices, this transformation dynamically expands the scope of personal AI computing environments. My work seeks to address system and algorithmic challenges, driving advancements in multi-device, multi-modal, and multi-sensory integrations. By tackling these challenges, I aim to push the boundaries of accurate, robust, efficient, and seamless edge intelligence in personal AI computing.

My research interests include embedded and distributed systems, edge intelligence, on-device AI, tiny ML, the Internet of Things (IoT), and social and cultural computing. I am deeply passionate about translating research into tangible, working systems and applications. Moreover, I value interdisciplinary collaboration, engaging with experts across various domains to foster innovation at the intersection of technology, society, and human-AI interaction.

Employment

Device Systems Team, Pervasive Systems Group, Nokia Bell Labs

Cambridge, UK

PRINCIPAL RESEARCH SCIENTIST AND TECH LEAD

Jul. 2022 - PRESENT

Pervasive Systems Group, Nokia Bell Labs

Cambridge, UK

RESEARCH SCIENTIST

Feb. 2019 - Jun. 2022

Department of Computer Science and Technology, University of Cambridge

Cambridge, UK

VISITOR

Mar. 2019 - Feb. 2021

Pervasive Systems Group, Nokia Bell Labs

Cambridge, UK

MEMBER OF TECHNICAL STAFF

Mar. 2017 - Jan. 2019

School of Computing, KAIST

Daejeon, South Korea

POSTDOCTORAL RESEARCHER

Mar. 2016 - Dec. 2016

Education

KAIST (Korea Advanced Institute of Science and Technology)

Daejeon, South Korea

Feb. 2016

Ph.D. IN COMPUTER SCIENCE

Advisor: Junehwa Song

• Dissertation: "User Support for Battery Management of Continuous Sensing Applications"

• Outstanding Ph.D Thesis Award in School of Computing at KAIST

KAIST (Korea Advanced Institute of Science and Technology)

Daejeon, South Korea

M.S. IN COMPUTER SCIENCE

Aug. 2009

· Advisor: Junehwa Song

• Thesis: "bOM: System Orchestration Framework in Sensor-rich Mobile Environment"

KAIST (Korea Advanced Institute of Science and Technology)

Daejeon, South Korea

B.S. IN COMPUTER SCIENCE

Aug. 2007

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Research Experience

Al-native, Ultra-efficient & Multi-sensory Programmable Runtime for Ultra-low Power

Nokia Bell Labs

BLUEPRINT, RESEARCH PAPERS ([C.22], [W.16], [W.14], [W.12])

2023-

• I am leading the development of Mojito, an Al-native, ultra-efficient, and multi-sensory programmable runtime. Mojito is designed to provide seamless Al services in collaboration with screenless, formless wearable devices equipped tiny Al accelerators. My research focuses on heterogeneous Al accelerator orchestration, holistic storage management, and software-defined thermal management.

On-the-fly Device-to-device Authentication

Nokia Bell Labs

RESEARCH PAPERS ([C.23], [J.16], [W.15])

Devices

2023

Today's tiny form factor wearables lack the hardware for biometric identification or touchscreens for passcode entry, often relying on
one-time Bluetooth associations. I am developing adaptable and secure authentication strategies for dynamic collaboration among
on-body screenless devices.

Bringing MLOPs and Multi-tenant Model Serving to Sensory Edge Devices

Nokia Bell Labs

RESEARCH PAPERS ([J.17], [J.14], [J.12], [J.11], [J.10], [C.18], [C.16], [W.07])

2021-2024

• The proliferation of sensory edge devices in our surroundings presents a unique opportunity to leverage redundant sensory signals and distributed computing resources. I developed SensiX, a multi-tenant runtime for adaptive model execution with integrated MLOps on edge devices. This project was later rebranded as **Camera-as-a-Service**, integrating SensiX's capabilities into smart cameras.

Camera-as-a-Service at U23 and Slush

Nokia Bell Labs

PROJECT, VIDEO, NOKIA CEO'S MESSAGE, NOKIA BELL LABS SOLUTIONS RESEARCH PRESIDENT'S BLOG

2022-2023

- European Athletics U23 Championships: I led the deployment of our Camera-as-a-Service solution at Leppävaara Stadium in Espoo, Finland, for the European Athletics U23 Championships in 2023. To ensure a successful deployment, I coordinated efforts with various stakeholders, including the U23 organizing committee, venue managers, subcontractors, and Nokia's legal team. During the championship, thousands of spectators experienced the unique digital services enabled by our Camera-as-a-Service solution.
- Demonstration at Slush: In 2022, I demonstrated our Camera-as-a-Service solution at Slush, a leading startup and tech event held annually in Helsinki, Finland, which hosted over 12,000 attendees.

eSense - Open Earable Platform for Human Sensing

Nokia Bell Labs

PROJECT WEBSITE, RESEARCH PAPERS ([J.09], [C.14], [C.13], [J.05], [W.05], [W.04], [D.10], [D.09], [D.08], [P.03])

2017-2019

• I contributed to the eSense project, developing the world's first open earable platform for human sensing. eSense integrates audio, motion, and BLE sensing for behavior analytics, cognitive assistance, and real-time well-being monitoring. We distributed 1,000 eSense prototypes to over 70 research labs worldwide, playing a key role in pioneering and advancing early earable research.

Mobile, Wearable, and Embedded Systems for Life-immersive Applications

KAIST

RESEARCH PAPERS ([J.08], [C.10], [J.04], [J.03], [C.09], [C.08], [C.07], [J.02], [C.05], [C.04], [C.03], [J.01], [C.02],

[C.01], [T.02], [T.01], [D.06], [D.05], [D.04], [P.02], [D.03], [P.01], [D.02], [F.01], [I.02], [D.01], [I.01])

2007-2017

During my PhD, I developed advanced systems to effectively support life-immersive applications on mobile, wearable, and embedded
platforms. These applications rely on continuous human-centred sensing for real-time, proactive services, but their adoption on
resource-constrained devices remains a significant challenge. I addressed this problem from multiple perspectives, including novel
sensing, resource management, device collaboration, and user perception, and devised novel systems solutions.

Mobile, Social, and Earable Applications

Nokia Bell Labs, KAIST

 $Research\ Papers\ ([C.21],[C.20],[J.07],[C.15],[C.11],[C.06],[W.13],[W.10],[W.09],[W.06],[W.02],[W.01],[P.07],[W.08],[W$

2007-

[P.06], [P.05], [P.05], [D.07], [V.01])

• As a systems researcher, I enjoyed developing innovative mobile, social, and earable applications that run on the systems I build. This hands-on development has inspired new design insights and helped identify novel requirements for next generation systems.

DatasetsNokia Bell Labs. KAIST

SMARTWATCH [C.07], AMBIENT ACOUSTIC [C.17], FATIGUESET [C.19], WEEE [J.13]

2007-

· To provide valuable insights for further exploration and innovation, I have released multiple datasets collected during my studies.

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Publications _____

PEER-REVIEWED PUBLICATIONS (CONFERENCES AND JOURNALS)

[C.23] BioQ: Towards Context-Aware Multi-Device Collaboration with Bio-cues	Paper
Adiba Orzikulova, Diana A. Vasile, Chi Ian Tang, Fahim Kawsar, Sung-Ju Lee, Chulhong Min	
To appear in ACM Conference on Embedded Networked Sensor Systems, Irvine, USA, May 2025	ACM SenSys 2025
[C.22] DEX: Data Channel Extension for Efficient CNN Inference on Tiny AI Accelerators	Paper, Code
Taesik Gong, Fahim Kawsar, Chulhong Min	
Annual Conference on Neural Information Processing Systems, Vancouver, Canada, Dec. 2024	NeurIPS 2024
[J.17] Argus: Enabling Cross-Camera Collaboration for Video Analytics on Distributed Smart Cameras	Paper
Juheon Yi, Utku Gunay Acer, Fahim Kawsar, Chulhong Min	
IEEE Transactions on Mobile Computing, Volume: 24, Issue: 1, pp 117-134	IEEE TMC
[J.16] Emerging Paradigms in Wearable Security: Adaptable and Secure Sandboxing for	Danor
On-the-Fly Collaboration Among Wearables	Paper
Diana A. Vasile, Fahim Kawsar, Chulhong Min	
IEEE Security & Privacy, Volume: 22, Issue: 6, pp 30-39	IEEE S&P
[C.21] GrooveMeter: Enabling Music Engagement-aware Apps by Detecting Reactions to Daily	Paper
Music Listening via Earable Sensing	rupei
Euihyeok Lee, Chulhong Min , Jaeseung Lee, Jin Yu, Seungwoo Kang	
ACM International Conference on Multimedia, Ottawa, Canada, Oct. 2023	ACM MM 2023
[J.14] SensiX++: Bringing MLOps and Multi-tenant Model Serving to Sensory Edge Devices	Paper
Chulhong Min, Akhil Mathur, Utku Günay Acer, Alessandro Montanari, Fahim Kawsar	
ACM Transactions on Embedded Computing Systems, Volume: 22, Issue: 6, Article No.: 98, pp 1-27	ACM TECS
[J.13] A Multi-device and Multi-modal Dataset for Human Energy Expenditure Estimation using	Paper
Wearable Devices	raper
Shkurta Gashi, Chulhong Min , Alessandro Montanari, Silvia Santini, Fahim Kawsar	
Nature Scientific Data 9, Article number: 537 (2022)	Nature Data 2022
[J.12] SensiX: A System for Best-effort Inference of Machine Learning Models in Multi-device	Paper
Environments	raper
Chulhong Min , Akhil Mathur, Alessandro Montanari, Fahim Kawsar,	
IEEE Transactions on Mobile Computing, Volume: 22, Issue: 9, pp 5525-5538	IEEE TMC
[J.11] The City as a Personal Assistant: Turning Urban Landmarks into Conversational Agents for	Paper
Serving Hyper Local Information	raper
Utku Gunay Acer, Marc Van Den Broeck, Chulhong Min , Mallesham Dasari, Fahim Kawsar	
Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies, Volume 6, Issue 2, July 2022, Article No.: 40, pp 1–31	ACM IMWUT
[J.10] ColloSSL: Collaborative Self-Supervised Learning for Human Activity Recognition	Paper
Yash Jain, Chi Ian Tang, Chulhong Min , Fahim Kawsar, Akhil Mathur	
Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies, Volume 6, Issue 1, March 2022, Article No.: 17, pp 1–28	ACM IMWUT

[C.20] SleepGAN: Towards Personalized Sleep Therapy Music	Paper
Jing Yang, Chulhong Min , Akhil Mathur, Fahim Kawsar IEEE International Conference on Acoustics, Speech and Signal Processing, Singapore, Singapore, May 2022.	ICASSP 2022
[J.09] In-Ear PPG for Vital Signs	Paper
Andrea Ferlini, Alessandro Montanari, Chulhong Min , Hongwei Li, Ugo Sassi, Fahim Kawsar	
IEEE Pervasive Computing (Volume: 21, Issue: 1, 01 JanMar. 2022)	IEEE Pervasive Computing
[C.19] FatigueSet: A Multi-modal Dataset for Modeling Mental Fatigue and Fatigability	Paper
Manasa Kalanadhabhatta, Chulhong Min , Alessandro Montanari, Fahim Kawsar	
EAI International Conference on Pervasive Computing Technologies for Healthcare, Tel Aviv, Israel, Dec. 2021.	PervasiveHealth 2021
[C.18] Deploying Collaborative Machine Learning Systems in Edge with Multiple Cameras	Paper
Si Young Jang, Utku Gunay Acer, Chulhong Min , Fahim Kawsar	
International Conference on Mobile Computing and Ubiquitous Networking, Tokyo, Japan, Nov. 2021.	ICMU 2021
[C.17] Augmenting Conversational Agents with Ambient Acoustic Contexts	Paper
Chungjong Park, Chulhong Min , Sourav Bhattacharya, Fahim Kawsar	
International Conference on Human-Computer Interaction with Mobile Devices and Services, Cyberspace, Oct. 2020.	MobileHCl 2020
[J. 08] Scalable Power Impact Prediction of Mobile Sensing Applications at Pre-installation Time	Paper
Chulhong Min, Youngki Lee, Chungkuk Yoo, Inseok Hwang, Younghyun Ju, Junehwa Song, Seungwoo	. upu
Kang	
IEEE Transactions on Mobile Computing, Volume 19, Issue 6, pp. 1448-1464, Jun. 2020	IEEE TMC 2020
This paper is an extended version of the PowerForecaster paper published in SenSys 2015.	
[C.16] A Closer Look at Quality-Aware Runtime Assessment of Sensing Models in Multi-Device	
Environments	Paper
Chulhong Min, Alessandro Montanari, Akhil Mathur, Fahim Kawsar	
ACM Conference on Embedded Networked Sensor Systems, New York, USA, Nov. 2019.	ACM SenSys 2019
[J.07] Towards Interpersonal Assistants: Next-generation Conversational Agents	Paper
Inseok Hwang, Youngki Lee, Chungkuk Yoo, Chulhong Min , Dongsun Yim, John Kim	•
IEEE Pervasive Computing (Volume 18, Issue 2, p. 21-31, Aug. 2019	IEEE Pervasive Computing
[C.15] Tiger: Wearable Glasses for the 20-20-20 Rule to Alleviate Computer Vision Syndrome	Paper
Chulhong Min, Euihyeok Lee, Souneil Park, Seungwoo Kang	,
International Conference on Human-Computer Interaction with Mobile Devices and Services, Taipei, Taiwan,	
Oct. 2019	ACM MobileHCl 2019
Honorable Mention Award	
[C.14] An Early Characterisation of Wearing Variability on Motion Signals for Wearables	Paper
Chulhong Min, Akhil Mathur, Alessandro Montanari, Fahim Kawsar	, ap 31
International Symposium on Wearable Computers, London, UK, Sep. 2019.	ISWC 2019
[C.13] Automatic Smile and Frown Recognition with Kinetic Earables	Paper
Seungchul Lee, Chulhong Min , Alessandro Montanari, Akhil Mathur, Youngjae Chang, Junehwa Song,	. 460
Fahim Kawsar	
Augmented Human International Conference, Reims Champagne-Ardenne, France, Mar. 2019	AH 2019

[J.06] On Tracking the Physicality of Wi-Fi: A Subspace Approach	Paper
Mohammed Alloulah, Anton Isopoussu, Chulhong Min , Fahim Kawsar <i>IEEE Access (Volume: 7, p. 19965-19978, Feb. 2019</i>	IEEE Access
[C.12] An Early Resource Characterisation of Wi-Fi Sensing on Residential Gateways Chulhong Min, Mohammed Alloulah, Fahim Kawsar	Paper
ACM International Conference on Systems for Energy-Efficient Built Environments, Shenzhen, China, Nov. 2018	ACM BuildSys 2018
[J.05] Earables for Personal-Scale Behavior Analytics Fahim Kawsar, Chulhong Min, Akhil Mathur, Alessandro Montanari	Paper
IEEE Pervasive Computing (Volume: 17, Issue: 3, JulSep. 2018	IEEE Pervasive Computing
[C.11] Zaturi: We Put Together the 25th Hour for You. Create a Book for Your Baby Bumsoo Kang, Chulhong Min, Wonjung Kim, Inseok Hwang, Chunjong Park, Seungchul Lee, Sung-Ju Lee, Junehwa Song	Paper, Video
ACM Conference on Computer-Supported Cooperative Work and Social Computing, Portland, Oregon, USA, Feb. 2017	ACM CSCW 2017
[C.10] PADA: Power-aware Development Assistant for Mobile Sensing Applications Chulhong Min, Seungchul Lee, Changhun Lee, Youngki Lee, Seungwoo Kang, Seungpyo Choi, Wonjung	Paper, Slide, Video
Kim, Junehwa Song ACM International Joint Conference on Pervasive and Ubiquitous Computing, Heidelberg, Germany, Sep. 2016	ACM UbiComp 2016
[J. 04] CoMon+: A Cooperative Context Monitoring System for Multi-Device Personal Sensing Environments	Paper
Youngki Lee, Seungwoo Kang, Chulhong Min , Younghyun Ju, Inseok Hwang, Junehwa Song **IEEE Transactions on Mobile Computing, Volume 15, Issue 8, pp. 1908-1924, Aug. 2016 * This paper is an extended version of the CoMon paper published in MobiSys 2012.	IEEE TMC 2016
[J. 03] PowerForecaster: Predicting Power Impact of Mobile Sensing Applications at Pre-installation Time	Paper
Chulhong Min, Youngki Lee, Chungkuk Yoo, Seungwoo Kang, Inseok Hwang, Junehwa Song GetMobile: Mobile Comp. and Comm. Volume 20, Issue 1 (July 2016), pp. 30-33 This is an overview article of the PowerForecaster paper published in SenSys 2015.	GetMobile 2016
[C.09] PowerForecaster: Predicting Smartphone Power Impact of Continuous Sensing Applications at Pre-installation Time Chulhong Min, Youngki Lee, Chungkuk Yoo, Seungwoo Kang, Sangwon Choi, Pillsoon Park, Inseok	Paper, Slide, Talk
Hwang, Younghyun Ju, Seungpyo Choi, Junehwa Song ACM Conference on Embedded Networked Sensor Systems, Seoul, Korea, Nov. 2015	ACM SenSys 2015
[C.08] Sandra Helps You Learn: the More You Walk, the More Battery Your Phone Drains Chulhong Min, Chungkuk Yoo, Inseok Hwang, Seungwoo Kang, Youngki Lee, Seungchul Lee, Pillsoon Park, Changhun Lee, Seungpyo Choi, Junehwa Song	Paper, Slide
ACM International Joint Conference on Pervasive and Ubiquitous Computing, Osaka, Japan, Sep. 2015	ACM UbiComp 2015
[C.07] Exploring Current Practices for Battery Use and Management of Smartwatches Chulhong Min, Seungwoo Kang, Chungkuk Yoo, Jeehoon Cha, Sangwon Choi, Younghan Oh, Junehwa Song	Paper, Slide, Dataset
International Symposium on Wearable Computers, Osaka, Japan, Sep. 201	ISWC 2015

[J. 02] An Active Resource Orchestration Framework for PAN-Scale, Sensor-Rich Environments	Paper
Youngki Lee, Chulhong Min , Younghyun Ju, Seungwoo Kang, Yunseok Rhee, Junehwa Song	
IEEE Transactions on Mobile Computing, Vol. 13, Issue 3, Mar. 2014	IEEE TMC 2014
This paper is an extended version of the Orchestrator paper published in PerCom 2010.	
[C. 06] TalkBetter: family-driven mobile intervention care for children with language delay	Paper
Inseok Hwang, Chungkuk Yoo, Chanyou Hwang, Dongsun Yim, Youngki Lee, Chulhong Min , John Kim,	
Junehwa Song	
ACM Conference on Computer-Supported Cooperative Work and Social Computing, Baltimore, USA, Feb. 2014	ACM CSCW 2014
 Best Paper Award Media Coverage: NewScientist, Feb. 1 2014. Click here to see the article. 	
[C.05] SocioPhone: Everyday Face-to-Face Interaction Monitoring Platform using Multi-phone Sensor Fusion	Paper
Youngki Lee, Chulhong Min , Chanyou Hwang, Jaeung Lee, Inseok Hwang, Younghyun Ju, Chungkuk	
Yoo, Miri Moon, Uichin Lee, Junehwa Song	
ACM International Conference on Mobile Systems, Applications, and Services, Taipei, Taiwan, Jun. 2013	ACM MobiSys 2013
[C.04] SymPhoney: A Coordinated Sensing Flow Execution Engine for Concurrent Mobile Sensing Applications	Paper
Younghyun Ju, Youngki Lee, Jihyun Yu, Chulhong Min , Insik Shin, Junehwa Song	
ACM Conference on Embedded Network Sensor Systems, Toronto, Canada, Nov. 2012	ACM SenSys 2012
New Contention of Embedded Network Sensor Systems, Poronto, Canada, Nov. 2012	ACM SCHSys 2012
[C.03] CoMon: Cooperative Ambience Monitoring Platform with Continuity and Benefit	Paper
Awareness	
Youngki Lee, Younghyun Ju, Chulhong Min , Seungwoo Kang, Inseok Hwang, Junehwa Song	
ACM Annual International Conference on Mobile Systems, Applications, and Services, Low Wood Bay, Lake	ACM MobiSys 2012
District, United Kingdom, Jun. 2012	
[J.01] MobiCon: Mobile Context Monitoring Platform for Sensor-Rich Dynamic Environments	Paper
Youngki Lee, Sitharam S. Iyengar, Chulhong Min , Younghyun Ju, Seungwoo Kang, Taiwoo Park, Jinwon	
Lee, Yunseok Rhee, Junehwa Song	
Communications of the ACM, Vol. 55, Issue 3, Mar. 2012	CACM 2012
[C.02] An Efficient Dataflow Execution Method for Mobile Context Monitoring Applications	Paper
Younghyun Ju, Chulhong Min , Youngki Lee, Jihyun Yu, Junehwa Song	
IEEE International Conference on Pervasive Computing and Communications, Lugano, Switzerland, Mar. 2012	IEEE PerCom 2012
[C.01] Orchestrator: An Active Resource Orchestration Framework for Mobile Context Monitoring	Paper
in Sensor-rich Mobile Environments	
Seungwoo Kang, Youngki Lee, Chulhong Min , Younghyun Ju, Taiwoo Park, Jinwon Lee, Yunseok Rhee, Junehwa Song	
IEEE International Conference on Pervasive Computing and Communications, Menheim, Germany, Mar. 2010	IEEE PerCom 2010
Theses	

[T.02] User Support for Battery Management of Continuous Sensing Applications Chulhong Min

Ph.D. Thesis, School of Computing, KAIST, Korea, Feb. 2016

- ${\bf Outstanding\, Ph.D.\, Thesis\, Award}$ in School of Computing at KAIST

[T.01] bOM: System Orchestration Framework in Sensor-rich Mobile Environment Chulhong Min

M.S. Thesis, School of Computing, KAIST, Korea, Aug. 2009

PEER-REVIEWED WORKSHOPS

TEER NEVIEWED WORKSHOTS	
[W.16] TinyMem: Boosting Multi-DNN Inference on Tiny AI Accelerators with Weight Memory Virtualization Changmin Jeon, Taesik Gong, Juheon Yi, Fahim Kawsar, Chulhong Min	Paper
International Workshop on Mobile Computing Systems and Applications, Palm Springs, California, Feb. 2025	ACM HotMobile 2025
[W.15] SecureWear: Secure Data Sharing Between Wearable Devices Sujin Han, Diana A. Vasile, Fahim Kawsar, Chulhong Min	Paper
International Workshop on Security and Privacy in Standardized IoT, San Diego, California, Feb. 2025	SDIoTSec 2025
[W.14] Thermal Characterization of AI Applications on AI Accelerators-equipped Microcontrollers SiYoung Jang, Fahim Kawsar, Chulhong Min	•
International Workshop on Body-Centric Computing Systems, Tokyo, Japan, Jun. 2024	ACM BodySys 2024
[W.13] Cocoon: On-body Microphone Collaboration for Spatial Awareness Bhawana Chhaglani, Utku Günay Acer, Si Young Jang, Fahim Kawsar, Chulhong Min	Paper
International Workshop on Mobile Computing Systems and Applications, Orange County, California, USA, Feb 2023	o. ACM HotMobile 2023
[W.12] Ultra-low Power DNN Accelerators for IoT: Resource Characterisation of the MAX78000 Arthur Moss, Hyunjong Lee, Lei Xun, Chulhong Min, Fahim Kawsar, Alessandro Montanari	Paper
International Workshop on Challenges in Artificial Intelligence and Machine Learning for Internet of Things, Boston, USA, Nov. 2022 Best Paper Award	ACM AIChallengeIoT 2022
[W.11] Vision Paper: Towards Software-Defined Video Analytics with Cross-Camera Collaboration Juheon Yi, Chulhong Min, Fahim Kawsar	n Paper
International Workshop on Challenges in Artificial Intelligence and Machine Learning for Internet of Things, Coimbra, Portugal, Nov. 2021	ACM AIChallengeIoT 2021
[W.10] Towards Automatic Recognition of Perceived Level of Understanding on Online Lectures using Earables	Paper
Dongwoo Kim, Chulhong Min, Seungwoo Kang ACM Workshop on Earable Computing, Virtual, Sep. 2021	ACM EarComp 2021
[W.09] Designing Memory Aids for Dementia Patients using Earables	Paper
Matija Franklin, David Lagnado, Chulhong Min , Akhil Mathur, Fahim Kawsar ACM Workshop on Earable Computing, Virtual, Sep. 2021	ACM EarComp 2021
[W.08] Group Supervised Learning: Extending Self-Supervised Learning to Multi-Device Settings Yash Jain, Chi Ian Tang, Chulhong Min, Fahim Kawsar, Akhil Mathur	Poster
ICML 2021 Workshop Self-Supervised Learning for Reasoning and Perception in conjunction with ICML 2021, Virtual, Jul. 2021	Self-Supervised Learning for Reasoning and Perception 2021

[W.07] Resource Characterisation of Personal-Scale Sensing Models on Edge Accelerators

Mattia Antonini, Tran Huy Vu, Chulhong Min, Alessandro Montanari, Akhil Mathur, Fahim Kawsar

International Workshop on Challenges in Artificial Intelligence and Machine Learning for Internet of Things, New York, USA, Nov. 2019

ACM AlChallengeloT 2019

[W.06] Mom, I see You Angry at Me! Designing a Mobile Service for Parent-child Conflicts by	Paper
In-situ Emotional Emphaty	Тирег
Chungkuk Yoo, Seungwoo Kang, Inseok Hwang, Chulhong Min , Seonghoon Kim, Wonjung Kim, Junehwa Song	
ACM Workshop on Mobile Systems for Computational Social Science, Seoul, South Korea, Jun. 2019	ACM MCSS 2019
[W.05] Cross-Modal Approach for conversational Well-being Monitoring with Multi-Sensory	Paper
Earables	
Chulhong Min, Alessandro Montanari, Akhil Mathur, Fahim Kawsar	
ACM Workshop on Computing for Well-being, Singapore, Singapore, Oct. 2018	ACM WellComp 2018
[W.04] Exploring Audio and Kinetic Sensing on Earable Devices	Paper
Chulhong Min, Akhil Mathur, Fahim Kawsar	
ACM Workshop on Wearable Systems and Applications, Munich, Germany, Jun. 2018	ACM WearSys 2018
[W.03] Embarrassing Interactions	Paper, Slide
Sebastian Deterding, Andrés Lucero, Jussi Holopainen, Chulhong Min , Adrian Cheok, Annika Waern, Steffen Walz	
ACM Conference Extended Abstracts on Human Factors in Computing Systems, Seoul, Korea, Apr. 2015	ACM CHI EA 2015
[W.02] Uncovering Embarrassing Moments in In-situ Exposure of Incoming Mobile Messages	Paper
Chulhong Min , Saumay Pushp, Seungchul Lee, Inseok Hwang, Youngki Lee, Seungwoo Kang, Junehwa Song	
ACM Workshop on Mobile Systems for Computational Social Science, Seattle, USA, Sep. 2014	ACM MCSS 2014 (UbiComp Adjunct)
[W.01] Uncovering Embarrassing Moments in In-situ Exposure of Incoming Mobile Messages SangJeong Lee, Chulhong Min, Chungkuk Yoo, Junehwa Song	Paper
ACM Workshop on Mobile Systems for Computational Social Science, Zurich, Switzerland, Sep. 2013	ACM MCSS 2013 (UbiComp Adjunct)
OTHER PUBLICATIONS (INVITED PAPERS, DEMOS, POSTERS, VIDEOS, AND Ph.D FORU	
[P.07] Towards Recognizing Perceived Level of Understanding for Online Lectures using Earables	Poster
Dongwoo Kim, Chulhong Min , Seungwoo Kang	
ACM Conference on Embedded Networked Sensor Systems, Yokohama, Japan, Nov. 2020	ACM SenSys 2020
[P.06] Automatic Recognition of Vocal Reactions in Music Listening using Smart Earbuds	Poster
Euihyeok Lee, Dongwoo Kim, Chulhong Min , Seungwoo Kang	
ACM Conference on Embedded Networked Sensor Systems, Yokohama, Japan, Nov. 2020	ACM SenSys 2020
[D.10] eSense - Open Earable Platform for Human Sensing	Demo
Fahim Kawsar, Chulhong Min , Akhil Mathur, Alessandro Montanari, Marc Van den Broeck, Utku Gunay	
Acer	

ACM SenSys 2018

ACM UbiComp 2018

Poster

ACM Conference on Embedded Networked Sensor Systems, Shenzhen, China, Nov. 2018

Seungchul Lee, Saumay Pushp, **Chulhong Min**, Junehwa Song

[P.05] Exploring Situation-aware Dynamic Message Screening for Mobile Messengers

ACM International Joint Conference on Pervasive and Ubiquitous Computing, Singapore, Singapore, Oct. 2018

[P.04] Towards a Wearable Assistant to Prevent Computer Vision Syndrome	Poster
Euiheok Lee, Chulhong Min , Seungwoo Kang ACM International Joint Conference on Pervasive and Ubiquitous Computing, Singapore, Singapore, Oct. 2018	ACM UbiComp 2018
[D.09] eSense - Open Earable Platform for Human Sensing	Demo
Fahim Kawsar, Chulhong Min , Akhil Mathur, Alessandro Montanari, Marc Van den Broeck, Utku Gunay Acer	
ACM International Joint Conference on Pervasive and Ubiquitous Computing, Singapore, Singapore, Oct. 2018	ACM UbiComp 2018
[P.03] Audio-kinetic Model for Automatic Dietary Monitoring with Earable Devices	Poster
Chulhong Min, Akhil Mathur, Fahim Kawsar	ACM Mahisur 2010
ACM International Conference on Mobile Systems, Applications, and Services, Munich, Germany, Jun. 2018	ACM MobiSys 2018
[D.08] eSense: Earable Platform for Human Sensing	Demo
Fahim Kawsar, Chulhong Min , Akhil Mathur, Marc Van den Broeck, Utku Gunay Acer, Claudio Forlivesi	
ACM International Conference on Mobile Systems, Applications, and Services, Munich, Germany, Jun. 2018	ACM MobiSys 2018
[D.07] Zaturi: Blending Hours Spent at Work and Hours Devoted to Children	Demo
Bumsoo Kang, Wonjung Kim, Inseok Hwang, Chunjong Park, Seungchul Lee, Chulhong Min , Sung-Ju	
Lee, Junehwa Song ACM Conference on Computer-Supported Cooperative Work and Social Computing, Portland, Oregon, USA, Ech. 2017	ACM CSCW 2017
Feb. 2017	
[D.06] User Support for Power Management of Continuous Sensing Applications	Demo
Chulhong Min, Chungkuk Yoo, Sangwon Choi, Pillsoon Park, Seungchul Lee, Seungpyo Choi,	
Seungwoo Kang, Youngki Lee, Inseok Hwang, Younghyun Ju, Junehwa Song	
ACM Conference on Embedded Networked Sensor Systems, Seoul, Korea, Nov. 2015	ACM SenSys 2015
[V.01] TalkBetter: Smartphone-supported Intervention in Family Conversation for Children with Language Delay	Video
Inseok Hwang, Chungkuk Yoo, Chanyou Hwang, Dongsun Yim, Youngki Lee, Chulhong Min , John Kim, Junehwa Song	
ACM conference on Computer supported cooperative work and social computing, Baltimore, USA, Feb. 2014	ACM CSCW 2014
[D.05] SocioPhone: Everyday Face-to-Face Interaction Monitoring Platform using Multi-phone	Dama
Sensor Fusion	Demo
Youngki Lee, Chulhong Min , Chanyou Hwang, Jaeung Lee, Inseok Hwang, Younghyun Ju, Chungkuk Yoo, Miri Moon, Uichin Lee, Junehwa Song	
ACM Annual International Conference on Mobile Systems, Applications, and Services, Taipei, Taiwan, Jun.	ACM MobiSys 2013
2013	
[D.04] ACM HotMobile 2013 Demo Brining In-situ Social Awareness to Mobile Systems:	Demo
Conversational Turn Monitoring and its Applications	
Chulhong Min, Inseok Hwang, Jaeung Lee, Chanyou Hwang, Chungkuk Yoo, Miri Moon, Taiwoo Park,	
Changhoon Lee, Haechan Lee, Yuhwan Kim, Younghyun Ju, Youngki Lee, Uichin Lee, Junehwa Song	
 ACM Mobile Computing and Communication Review, vol. 17, no. 3 (2013) In ACM Workshop on Mobile Computing Systems and Applications, Jekyll Island, USA, Feb. 2013 Best Demo Award 	MC2R 2013
200 20110 AWAITA	
[P.02] Towards Crowd-aware Sensing Platform for Metropolitan Environments	Poster
Saumay Pushp, Chulhong Min , Youngki Lee, Chi Harold Lie, Junehwa Song	
ACM Conference on Embedded Network Sensor Systems, Toronto, Canada, Nov. 2012	ACM SenSys 2012

[D.03] MobiCon: Mobile context monitoring platform, Incorporating Context-awareness to Smartphone-centric Personal Sensor Networks

Youngki Lee, Younghyun Ju, Chulhong Min, Jihyun Yu, Junehwa Song

IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks, Seoul, Korea, Jun. 2012

IEEE SECON 2012

[P.01] Poster: Towards Mobile GPU-Accelerated Context Processing for Continuous Sensing Applications on Smartphones

Poster

Chulhong Min, Wookhyun Han, Inseok Hwang, SangJeong Lee, Youngki Lee, Insik Shin, Junehwa Song ACM International Conference on Mobile Systems, Applications, and Services, Low Wood Bay, Lake District, United Kingdom, Jun. 2012

ACM MobiSys 2012

[D.02] Demo: SenseTogether- Cooperative Ambience Monitoring Platform with Continuity and Benefit Awareness

Demo

Youngki Lee, Younghyun Ju, **Chulhong Min**, Seungwoo Kang, Inseok Hwang, Junehwa Song ACM International Conference on Mobile Systems, Applications, and Services, Low Wood Bay, Lake District, United Kingdom, Jun. 2012

ACM MobiSys 2012

[F.01] SensorShader: Mobile GPU-Accelerated Context Processing Engine for Sensing Applications on Smartphones

Chulhong Min

MobiSys Ph.D. Forum, Low Wood Bay, Lake District, United Kingdom, Jun. 2012

MobiSys Ph.D. Forum 2012

[1.02] Healthopia: Towards Your Well-Being in Everyday Life (Invited Paper)

Paper

Chulhong Min, Chungkuk Yoo, Youngki Lee, Junehwa Song

International Symposium on Applied Sciences in Biomedical and Communication Technologies, Barcelona, Spain, Oct. 2011

ISABEL 201.

[D.01] Demo: CoMon - Resource-aware Cooperative Context Monitoring System for Smartphone-centric Sensor-rich PANs

Demo

Youngki Lee, Younghyun Ju, **Chulhong Min**, Seungwoo Kang, Yunseok Rhee, Junehwa Song

ACM International Conference on Mobile Systems, Applications, and Services, Washington, DC, USA, Jun. 2011

ACM MobiSys 2011

[I.01] A Mobile Context Monitoring Platform for Pervasive Computing Environments (Invited paper)

Youngki Lee, Chulhong Min, Younghyun Ju, Saumay Pushp, Junehwa Song

IEEE International Conference on Digital Ecosystems and Technologies Conference, Daejeon, Korea, May 2011

IEEE DEST 2011

Patents.

ISSUED

Personalized models United Kingdom

United Kingdom Application No. GB2588689A Apr. 24, 2024

System and method for automatic detection of music listening reactions, and mobile device performing the method

US

US APPLICATION NO. US20230171541A1 Mar. 26, 2024

Presence or activity detection Europe

EUROPE PATENT NO. EP3459439 Aug. 23, 2023

Method and devices for processing sensor data by applying one or more processing	US
pipelines to the sensor data US APPLICATION NO. US11557898	Jan. 17, 2023
Communication device for predicting power consumption of mobile application, communication system including same, method of predicting power consumption of	
mobile application and method of providing predicted power consumption of mobile	USA
application, using same	
US Application No. US10928877B2	Feb. 23, 2021
Sensing in wireless communication systems	Europe
EUROPE PATENT NO. EP3624410	Dec. 30, 2020
Mobile apparatus, audio book creating system having the same and method of creating	South Korea
audio book using the same	SouthNored
KOREA PATENT NO. 10-2019-101591	Sep. 02, 2019
Development assistant apparatus of mobile sensing application, development assistant	
system having the same, method of assisting development of mobile sensing application	South Korea
using the same	
KOREA PATENT NO. 10-2019-0029298	Mar. 20, 2019
Language delay treatment system and control method for the same	USA
U.S. PATENT NO. 9875668	Jan. 23, 2018
Mobile device executing face-to-face interaction monitoring, method of monitoring	
face-to-face interaction using the same, and interaction monitoring system including the	USA
same, and mobile interaction monitoring application executed on the same	
U.S. PATENT No. 9813879	Nov. 7, 2017
Mobile apparatus supporting cooperative context monitoring, method of cooperative	
context monitoring using the same and cooperative context monitoring system including	USA
the same	C 5 2017
U.S. Patent No. 9756095	Sep. 5, 2017
Communication apparatus for predicting power consumption of mobile application,	
communication system having the same, method of predicting power consumption of	South Korea
mobile application Korea Patent No. 10-1758267-0000	Jul. 10, 2017
NOREAT ATENT NO. 10-1138201-0000	Jul. 10, 2017
Mobile apparatus for executing sensing flow for mobile context monitoring, method of	
executing sensing flow using the same, method of context monitoring using the same and	USA
U.S. PATENT NO. 9367664B2	Jun. 14, 2016
	Jun. 11, 2010
Mobile device executing face-to-face interaction monitoring, method of monitoring	0 44
face-to-face interaction using the same, and interaction monitoring system including the same, and mobile interaction monitoring application executed on the same	South Korea
KOREA PATENT NO. 10-1559364-0000	Oct. 5, 2015

Mobile apparatus for executing sensing flow for mobile context monitoring, method of	
executing sensing flow using the same, method of context monitoring using the same and	South Korea
context monitoring system including the same	
Korea Patent No. 10-1549002-0000	Aug. 26, 2015
Mobile apparatus executing efficient dataflow execution for mobile context monitoring,	
method of executing dataflow using the same, method of context monitoring using the	USA
same and context monitoring system including the same	
U.S. PATENT No. 9015729	Apr. 21, 2015
Language delay treatment system and control method for the same	South Korea
Korea Patent No. 10-1478459-0000	Dec. 24, 2014
Mobile apparatus executing efficient dataflow execution for mobile context monitoring,	
method of executing dataflow using the same, method of context monitoring using the	South Korea
same and context monitoring system including the same	
Korea Patent No. 10-1758267-0000	May 29, 2014
Mobile apparatus supporting context monitoring, method of monitoring context using the	
same and context monitoring system having the same	USA
U.S. PATENT No. 8599710	Jan. 16, 2014
Mobile apparatus supporting cooperative context monitoring, method of cooperative	
context monitoring using the same and cooperative context monitoring system including	South Korea
the same	
Korea Patent No. 10-1394966-0000	Sep. 24, 2012
Mobile apparatus supporting context monitoring, method of monitoring context using the	
same and context monitoring system having the same	South Korea
KOREA PATENT NO. 10-1183124-0000	Sep. 10, 2012
A system for providing group interactive contents	South Korea
Korea Patent No. 10-0959591-0000	May 17, 2010
	., , , , , ,
Multi-game supporting system using body-attached sensors and digital sport equipments	South Korea
Korea Patent No. 10-0943039-0000	Feb. 10, 2010
PENDING	
Earphone Modes of Operation	US
US PATENT NO. US20240040299	Feb. 1, 2024
Mulki annum iman data annum ima	IMIDO (DCT)
Multi-camera image data processing	WIPO (PCT)
WIPO (PCT) No. WO2023247041	Dec. 28, 2023
Object Identification	US
US No. US20230394686	Dec. 7, 2023
Resource control	US
US Application No. US20230269668A1	Aug. 24, 2023
A user authentication based on a blockchain	Europe
EUROPE PATENT NO. EP4209944A1	Jul. 12, 2023
	Jui. 12, 2020

Providing	unlabelled training data for training a computational model	US
US APPLICA	TION NO. US20230153611A1	May 18, 2023
Runtime	assessment of sensors	US
US Applica	TION NO. US20220330896A1	Oct. 20, 2022
Model mo	odification and deployment	Europe
Europe Pa	TENT NO. EP4190042A1	Nov. 11, 2021
Electroni	c device control	Europe
Europe Pa	TENT NO. EP3876561A1	Sep. 8, 2021
Detection	of facial expressions	Europe
Europe Pa	TENT NO. EP3709131A1	Sep. 16, 2020
Sensor co	onfiguration based on other sensor context determination	Europe
Europe Pa	TENT NO. EP3700188	Aug. 26, 2020
Method a	nd devices for processing sensor data	WIPO (PCT)
WIPO (PCT)	WO2019091959	May 16. 2019
communi	ication apparatus for predicting power consumption of mobile application, cation system having the same, method of predicting power consumption of oplication	PCT
PCT PATENT	PENDING, PCT/KR2017/002548	Mar. 9, 2017
Korea Pate	or displaying information for user terminal and control equipment for the same on No. 10-1385195-0000 ors & Awards	South Korea Apr. 8, 2014
2024	Best Paper Award, ACM HumanSys	Hangzhou, China
2022	Best Paper Award, ACM AIChallengeloT	Boston, USA
2019	Honorable Mention Award, ACM MobileHCI	Taipei, Taiwan
2016	Outstanding Ph.D. Thesis Award, KAIST	South Korea
2014	Best Paper Award, ACM CSCW	Baltimore, MD, USA
2013	Qualcomm Fellowship Award, Qualcomm	South Korea
2013	Best Demo Award, ACM HotMobile	Georgia, USA
Tutor	rials	
2019	Building Embedded AI Systems - A Practical Approach, ACM MobiCom	Los Cabos, Mexico
2018	Designing Connected Data Products , ACM UbiComp	Singapore, Singapore
Talks		
Al-power Systems	ed Evolution in Collaborative Wearables with Multi-device, Multi-modal,	Pohang, South Korea

Aug. 2024

POSTECH, CS DEPARTMENT SPECIAL SEMINAR

AI-powered Evolution in Wearables with Multi-device, Multi-modal, Collaborative	Tokyo, Japan
Systems NetAlSys, Keynote Speech	Jun. 2024
What's Next for AI Systems? KAIST, Invited Lecture	Daejeon, South Korea
Building Collaborative AI Systems for Multi-device Environments University of Southampton, Guest Lecture	Southampton, UK Nov. 2022
Building AI Systems for Collaborative, Interactive, and Privacy-Preserving Applications POSTECH, SPECIAL SEMINAR	Pohang, South Korea Nov. 2022
Building Collaborative AI Systems for Multi-device Environments UNIST, CS SEMINAR	Ulsan, South Korea Nov. 2022
The Challenge and Future of Sensory AI Systems: Making On-device AI a Reality SIGMOBILE CEP, INVITED TALK	Online Mar. 2022
Earable Computing for Personal-scale Behavioral Analytics KAIST, Invited Talk	Daejeon, South Korea Jul. 2021
What is Next for Sensory Al Systems? A Journey toward Making Al Work in the Real World Yonsei University, Special Seminar	Incheon, South Korea Jun. 2021
What is Next for AI Systems? A Journey toward Making AI Work in the Real World POSTECH, SPECIAL SEMINAR	Pohang, South Korea May 2021
Sensory AI Software Platform for Multi-device Environments ICTC, Special Session Invited Talk	Jeju Island, South Korea Oct. 2020
Sensory AI Software Platform for Multi-device Environments IEEE SMARTCOMP, INDUSTRY TRACK INVITED TALK	Bologna, Italy Sep. 2020
A Closer Look at Quality-Aware Runtime Assessment of Sensing Models in Multi-Device Environments	New York, USA
ACM SENSYS An Early Characterisation of Wearing Variability on Motion Signals for Wearables ISWC	Nov. 2019 London, UK Sep. 2019
Making AI Work in Multi-device World Dept. of Computer Science and Engineering, Seoul National University	Seoul, South Korea Jun. 2019
An Early Resource Characterisation of Wi-Fi Sensing on Residential Gateways ACM BUILDSYS	Shenzhen, China Nov. 2018
Cross-Modal Approach for conversational Well-being Monitoring with Multi-Sensory Earables	Singapore, Singapore
ACM WELLCOMP	Oct. 2018
Exploring Audio and Kinetic Sensing on Earable Devices ACM WEARSYS	Munich, Germany Jun. 2018

Resource Orchestration Platform for Life-immersive Sensing Applications FUTURE INTERNET FORUM WORKSHOP	Seoul, South Korea Oct. 2016
PADA: Power-aware Development Assistant for Mobile Sensing Applications ACM UBICOMP	Heidelberg, Germany Sep. 2016
Ecosystem-wide Support for Power Impact-Awareness for Mobile Sensing Applications Nokia Bell Labs	Antwerp, Belgium Sep. 2016
Ecosystem-centric Power Management for Continuous Sensing Applications NAVER LABS	Sungnam, South Korea Feb. 2016
PowerForecaster: Predicting Smartphone Power Impact of Continuous Sensing Applications at Pre-installation Time	Seoul, South Korea
ACM SENSYS	Nov. 2015
Sandra: the More You Walk, the More Battery Your Phone Drains	Osaka, Japan
ACM UBICOMP	Sep. 2015
Exploring Current Practices for Battery Management of Smartwatches ACM ISWC	Osaka, Japan Sep. 2015
An Active Resource Use Orchestration Framework for Mobile Context Monitoring in Sensor-rich Mobile Environments	Daejeon, South Korea
RESEARCH CENTER FOR UX-ORIENTED MOBILE SOFTWARE PLATFORM	Feb. 2013
CoMon: Cooperative Ambience Monitoring Platform with Continuity and Benefit Awareness	Pohang, South Korea
POSTECH	Aug. 2012
SensorShader: Mobile GPU-Accelerated Context Processing Engine for Sensing Applications on Smartphones ACM MOBISYS PHD FORUM	Lake District, UK Aug. 2012
	· 3. 2012

Scholarly Services_____

EDITORSHIP

2023-	IEEE	Pervasive	Computing,	Editorial	Board
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2017- **ACM IMWUT**, Associate Editor

ORGANISING COMMITTEE

2025	ACM UbiComp/ISWC, Sponsorship and Industrial Relations	Helsinki, Finland
2024	ACM MobiSys, Student travel grants chair	Tokyo, Japan
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2025	Acid Inda, Spottsorship chair	USA
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	ACM UbiComp/ISWC, Workshop chair	Atlanta, USA
2022	ACMIASA Dragram shair	Portland, Oregon,
	ACM IASA, Program chair	USA
2021	ACM EarComp, Program chair	Cyberspace
2020	ACM SenSys, Poster and demo chair	Yokohama, Japan
2010	ACM For Committee of a superior and	London, United
2019	ACM EarComp, Local arrangement	Kingdom
2019	ACM WearSys, Program chair	Seoul, South Korea
2019	ACM MobiSys, Demo and video chair	Seoul, South Korea
2010	ACM UhiCaman Dublication shair	Singapore,
2018	ACM UbiComp, Publication chair	Singapore
2017	IFFE MDM I and approximately a facility	Daejeon, South
2017	IEEE MDM, Local organising chair	Korea

PROGRAM COMMITTEE MEMBERSHIP

2025	ACM MobiSvc	Anaheim,
2023	ACM MobiSys,	California, USA
2025	ACM SenSys,	Irvine, USA
2025	IEEE PerCom,	Washington DC,
2023	ieee Percoin,	USA
2025	ACM MobiCom,	Hong Kong, China
2024	ACM MobiSys,	Tokyo, Japan
2024	ACM BodySys,	Tokyo, Japan
2024	ACM EdgeSys,	Athens, Greece
2023	ACM IASA,	San Antonio, Texas,
2023	ACM INSA,	USA
2022	ACM CML-IOT 2022,	Boston, USA
2022	ACM MobiSys,	Portland, OR, USA
2022	ACM DIGIBIOM 2022,	Portland, OR, USA
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2022	PerCom Industry Track,	Pisa, Italy
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2021	ICMU,	Tokyo, Japan
2021	MobiQuitous,	Beppu, Japan
2021	ICMU,	Tokyo, Japan
2021	ACM HotMobile,	Cyberspace
2021	COMSNETS,	Bengaluru, India
2021	MFSens, co-located with ICDCN	Nara, Japan
2020	WearSys 2020,	Toronto, Canada
2020	WCNC 2020,	Seoul, South Korea
2020	COMSNETS 2020,	Bengaluru, India
2019	ACM EarComp,	London, UK
2019	PervasiveHealth,	Trento, Italy
2019	ACM MobiSys,	Seoul, South Korea
2019	MUSICAL, co-located with IEEE PerCom	Kyoto, Japan
2017	IEEE MDM	Daejeon, South
2017	IEEE MDM,	Korea
2015	Embarrassing Interactions, ACM CHI Workshop	Seoul, South Korea
2015	MobiSys PhD Forum,	Florence, Italy