Yuuki NISHIYAMA

Center for Spatial Information Science, The University of Tokyo · Lecture

Ew601, 4-6-1 Komaba, Meguro, Tokyo

■ nishiyama@csis.u-tokyo.ac.jp | 😭 www.yuukinishiyama.com | 🔰 yuuki_nishiyama





Education _____

Graduate School of Media and Governance, Keio University Ph.D. in Media and Governance	Japan Apr. 2014 - Sep. 2017
Graduate School of Media and Governance, Keio University Master of Media and Governance	Japan Apr. 2012 - Mar. 2014
Faculty of Environment and Information Studies, Keio University	Japan
Bachelor of Arts in Environment and Information Studies	Apr. 2008 - Mar. 2012

Bachelor of Arts in Environment and information studies	Apr. 2008 - Mar. 2012
Experience	
Center for Spatial Information Science Lecturer (Assistant Professor)	Japan Apr. 2022 - Current
Institute of Industrial Science, The University of Tokyo Research Associate	Japan Sep. 2019 - Mar. 2022
Faculty of Information Technology and Electrical Engineering, University of Oulu Postdoctoral Researcher	Finland Apr. 2018 - Aug. 2019
Graduate School of Media and Governance, Keio University Postdoctoral Researcher	Japan Oct. 2017 - Mar. 2018
Bachelor of Arts in Environment and Information Studies, Keio University Part-time Lecturer	Japan Apr. 2017 - Mar. 2018
College of Science and Engineering, Aoyama Gakuin University Part-time Assistant	Japan Apr. 2017 - Sep. 2017
Ubicomp Lab, Human Computer Interaction Institute (HCII), School of Computer Science, Carnegie Mellon University Visiting Research Scholar	PA, USA Sep. 2015 - Mar. 2016
Global Environmental System Leaders Program (GESL), Keio University	lanan

Computer Science, Carnegie Mellon University Visiting Research Scholar	Sep. 2015 - Mar. 2016
Global Environmental System Leaders Program (GESL), Keio University Research Assistant (RA)	Japan Apr. 2014 - Mar. 2017
Teaching Experiences	
Urban Computing Theory Graduate School of Frontier Sciences, The University of Tokyo	Japan Autumn 2024
Urban Computing Theory Graduate School of Frontier Sciences, The University of Tokyo	Japan Autumn 2023
Introduction to Socio-Cultural Environmental Studies Graduate School of Frontier Sciences, The University of Tokyo	Japan Spring 2022

University-wide Open Research Seminar (Introduction to Web Service and Application Design)	Japan
The University of Tokyo	Autumn 2022
Urban Computing Theory Graduate School of Frontier Sciences, The University of Tokyo	Japan Autumn 2022
University-wide Open Research Seminar (Introduction to Web Service and Application Design) The University of Tokyo	Japan Autumn 2021
Urban Computing Theory Graduate School of Frontier Sciences, The University of Tokyo	Japan Autumn 2021
Network Architecture Graduate School of Frontier Sciences, The University of Tokyo	Japan Spring 2021
Spatial Information Design Graduate School of Frontier Sciences, The University of Tokyo	Japan Autumn 2020
Mobile Computing Faculty of Information Technology and Electrical Engineering Oulu University	Finland Autumn 2018
Data Acquisition (GIGA) - Human Activity Sensing using Mobile Phone (Invited Lecture) Faculty of Environment and Information Studies, Keio University	Japan Autumn 2017
Fundamentals of Information Technolog 1&2 Faculty of Environment and Information Studies, Keio University	Japan Autumn 2017
Fundamentals of Information Technolog 1&2 Faculty of Environment and Information Studies, Keio University	Japan Spring 2017
System Construction Practical Trainin (TA) College of Science and Engineering, Aoyama Gakuin University	Japan Spring 2017
Data Acquisition (GIGA): Human Activity Sensing using Mobile Phone (Invited Lecture) Faculty of Environment and Information Studies, Keio University	Japan Autumn 2014
Fundamentals of Object-Oriented Programming (TA) Faculty of Environment and Information Studies, Keio University	Japan Autumn 2014
Large-Scale Environmental Systems (TA) Graduate School of Media and Governance, Keio University	Japan Autumn 2014
Environmental Information System Architecture (TA) Graduate School of Media and Governance, Keio University	Japan Spring 2014
Introduction of Novel Fabrication (TA) Faculty of Environment and Information Studies, Keio University	Japan Autumn 2013
Object-Oriented Programming (TA) Faculty of Environment and Information Studies, Keio University	Japan Autumn 2013
Ubiquitous Information Service (TA) Faculty of Environment and Information Studies, Keio University	Japan Autumn 2013
Ubiquitous System Architecture (TA) Faculty of Environment and Information Studies, Keio University	Japan Spring 2012

Honors_

2024	Best Poster Award , The ACM international joint conference on Pervasive and Ubiquitous Computing (UbiComp) "Investigating Acceptable Voice-based Notification Timings through Earable Devices: A Preliminary Field Study"	Melbourne, Australia
2024	Best Poster Award , The ACM international joint conference on Pervasive and Ubiquitous Computing (UbiComp) "Toward Detecting Student-Athletes' Condition Using Passive Mobile and Wearable Sensing"	Melbourne, Australia
2024	Outstanding Paper Award , IPSJ 81st Workshop of SIG Ubiquitous Computing System (UBI) (as a co-author)	Japan
2023	Outstanding Reviewer Awards , 25th ACM International Conference on Multimodal Interaction (ICMI2023)	Paris, France
2022	Outstanding Paper Award , IPSJ 76th Workshop of SIG Ubiquitous Computing System (UBI) (as a co-author)	Japan
2022	Excellent Presentation Award , IPSJ 84th National Convention of IPSJ in Sensors for Helath Conditions (as a co-author)	Japan
2022	Excellent Presentation Award , IPSJ 84th National Convention of IPSJ in Public Transportation Session (as a co-author)	Japan
2021	Outstanding Paper Award , IPSJ 72th Workshop of SIG Ubiquitous Computing System (UBI) (as a co-author)	Japan
2020	Outstanding Paper Award , IPSJ 66th Workshop of SIG Ubiquitous Computing System (UBI) (as a co-author)	Japan
2020	WiP Encouragement Award, IPSJ 97th Workshop of SIG Mobile computing and smart society system (MBL) (as a co-author)	Japan
2020	Excellent Presentation Award , IPSJ 81st Workshop of SIG Itelligent Transportation Systems and Smart Communities (ITS) (as a co-author)	Japan
2018	Honorable Mention Award , ACM 20th International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI 2018)	Spain
2015	Young Researcher Encouragement Award , IEICE Technical Committee on Ambient Intelligence and Sensor Networks (SIG ASN)	Japan
2015	Best Poster Award , IEEE Eighth International Conference on Mobile Computing and Ubiquitous Networking (ICMU2015), (as a co-author)	Japan
2015	SFC Student Award , Faculty of Environment and Information Studies/Faculty of Policy Management, Keio University	Japan
2014	Best Paper Award , IEEE 16th International Conference on e-Health Networking, Applications and Services (HealthCom 2014)	Brazil

Presentations

Mobile AI Systems (ACM MobiSys2024 Adjunct Workshop)

Tokyo, Japan Jun., 2024

Invited Talk

Invited Talk

• In-the-wild IoT: Lessons from real-world implementations

• https://ai-mobile-system.vercel.app/program

30th Workshop on Multimedia Communications and Distributed Processing (DPSWS2022)

Yonago, Japan

Panel Discussion: Speakers

Oct. 2022

Nov., 2022

• Projections for DPS Workshop Programs in 30 Years

https://www.dpsws.org/2022/

SSE Invited Speaker Series at Stevens Institute of Technology, School of **Systems & Enterprises**

NJ, United States

• Encouraging human behavior change by using passive mobile sensing and lifelog sharing

• https://www.eventbrite.com/e/sse-invited-speaker-series-yuuki-nishiyama-phd-tickets-449765870827

Location Business Japan

Invited Talk Apr. 2021

• MOCHA: Development and operation of a system for monitoring campus congestion, confirming contact, and recording stays using Bluetooth beacons for realizing a secure campus life at the University of Tokyo

https://forest.f2ff.jp/introduction/5082?project_id=20210401

Workshop of SIG Smart Sensing System (SSS) in The Society of Instrument and **Control Engineers (SICE)**

Kumamoto, Japan

Tokyo, Japan

Invited Talk Nov. 2019

- · SenbayKit: Introduction of an infrastructure for immediate archiving and re-streaming of multiple data streams using sensor dataintegrated video
- http://rcl.it.aoyama.ac.jp/member/sice-sss/20191115_program.html

63rd Workshop of SIG Ubiquitous Computing System (UBI) in Information **Processing Society of Japan (IPSJ)**

Tokyohashi, Japan

Lightning Talk

Aug. 2019

http://sigubi.ipsj.or.jp/seminar63/

Joint Workshop of Regional IoT and Information Capability Consortium / Health Information Consortium

Tokyo, Japan

Invited Talk Oct. 2019

- · Human and Urban Sensing and Analysis Platform Using Mobile and Wearable Devices for Realization of Well-being Smart City
- https://hip.sfc.keio.ac.jp/2019/10/07/seminar-with-prof-spitz/

Grants

A Platform for Detecting Postpartum Depression through Passive Mobile Ы SensingPrincipal Investigator Grant-in-Aid for Early-Career Scientists, Grants-in-Aid for Scientific Research (KAKENHI), Japan Society for 2023-2025 the Promotion of Science (JSPS)

Platform for Detecting Postpartum Depression Symptoms Using Passive Mobile Sensing

Ы

Grant-in-Aid for Early-Career Scientists, Grants-in-Aid for Scientific Research (KAKENHI), Japan Society for the Promotion of Science (JSPS)

2023-2026

Distributed Collaborative Learning Analytics for Developing Communities

Co-Investigator

Grant-in-Aid for Scientific Research (A), Grants-in-Aid for Scientific Research (KAKENHI), Japan Society for the Promotion of Science (JSPS)

2020-2024

Sensor data processing and its utilization obtained from smartphones

2021-2023

PΙ

PΙ

Joint Research with Yahoo! JAPAN R&D

Joint Research with First-Ascent Inc.

2022-2023

Activity recognition technologies for infants using wearable devices

Smart urban transportation infrastructure technology through behavior

change and dynamic control of transportation infrastructure National Institute of Information and Communications Technology (NICT) - Beyond 5G R&D Promotion

2021-2023

Co-Investigator

Project

Diversity-driven transformation technologies to realize a hyper-diverse society in the post-corona era

Co-Investigator

National Institute of Information and Communications Technology (NICT) - Research and Development of Information and Communication Technologies for Countermeasures against Viruses and Other Infectious

2021-2023

Diseases

Animal Wearable 2.0: Establishment of high-speed communication and high-reliability mechanisms for wildlife IoT

Grant-in-Aid for Scientific Research (A), Grants-in-Aid for Scientific Research (KAKENHI), Japan Society for the Promotion of Science (JSPS)

Co-Investigator

2021-2023

Platform for detecting and utilizing kinesthetics to promote motor learning using voice-based ESMs.

2020-2021

Ы

Grant-in-Aid for Early-Career Scientists, Grants-in-Aid for Scientific Research (KAKENHI), Japan Society for the Promotion of Science (JSPS)

Publication

Journal

- [J1] Image Generative Semantic Communication with Multi-Modal Similarity Estimation for Resource-Limited Networks E. Hosonuma, T. Yamazaki, T. Miyoshi, A. Taya, Y. Nishiyama, K. Sezaki IEICE Transactions on Communications (Aug. 28, 2024). 2024.
- [J2] Multi-label Classification Model for Infant Activity Recognition Using Single Inertial Sensor A. Onodera, R. Ishioka, Y. Nishiyama, K. Sezaki

 IEEE Pervasive Computing (Nov. 1, 2024) pp. 1–10. IEEE Computer Society, 2024. [Q2 Journal].
- [J3] Compressive Detection of Stochastic Sparse Signals With Unknown Sparsity Degree Y. Feng, A. Taya, Y. Nishiyama, K. Sezaki, J. Liu IEEE Signal Processing Letters (Oct. 15, 2023) pp. 1–5. 2023. [Q1 Journal].
- [J4] AMoND: Area-Controlled Mobile Ad-hoc Networking with Digital Twin S. Ono, T. Yamazaki, T. Miyoshi, A. Taya, Y. Nishiyama, K. Sezaki IEEE Access (Aug. 1, 2023) pp. 1–1. 2023. [Q1 Journal].
- [J5] Assessing environmental benefits from shared micromobility systems using machine learning algorithms and Monte Carlo simulation
 H. Peng, Y. Nishiyama, K. Sezaki
 Sustainable Cities and Society (Nov. 1, 2022) p. 104207. 2022. [Q1 Journal].
- [J6] SFC GO: 学生同士の繋がりを支援するオンライン体育授業サポートシステム 佐々木航, 柿野優衣, 中縁嗣, 野田悠加, 羽柴彩月, 山田佑亮, 西山勇毅, 大越匡, 中澤仁, 森将輝, 水鳥寿思, 塩田琴美, 永野智久, 東海林祐子, 加藤貴昭 情報処理学会論文誌デジタルプラクティス(TDP) 3.1 (Jan. 15, 2022) pp. 19–33. 2022.
- [J7] Mobile phone sensor-based detection of subjective cannabis intoxication in young adults: A feasibility study in real-world settings
 S. W. Bae, T. Chung, R. Islam, B. Suffoletto, J. Du, S. Jang, Y. Nishiyama, R. Mulukutla, A. Dey
 Drug and Alcohol Dependence (Jan. 1, 2021) p. 108972. 2021. [Q1 Journal].
- [J8] Investigating the occurrence of selfie-based emotional contagion over social network W. Sasaki, Y. Nishiyama, T. Okoshi, J. Nakazawa Social Network Analysis and Mining 11 (Jan. 1, 2021) p. 8. Springer, 2021. [Q1 Journal].
- [J9] MOCHA: Bluetoothビーコンを用いた学内位置情報サービスの開発・運用 西山勇毅, 川原圭博, 瀬崎薫 画像電子学会誌 50.3 (Aug. 1, 2021) pp. 459-461. 画像電子学会, 2021.
- [J10] 感染症流行時におけるスマートフォンを用いた 大学生の身体活動量分析 西山勇毅, 柿野優衣, 中縁嗣, 野田悠加, 羽柴彩月, 山田佑亮, 佐々木航, 大越匡, 中澤仁, 森将輝, 水鳥寿思, 塩田琴美, 永野智久, 東海林祐子, 加藤貴昭 情報処理学会論文誌 [特集:ユビキタスコンピューティングシステム(X)]62.10 (Oct. 1, 2021) pp. 1630–1643. 2021.
- [J11] Mobile Assessment of Acute Effects of Marijuana on Cognitive Functioning in Young Adults: Observational Study T. Chung, S. W. Bae, E.-Y. Mun, B. Suffoletto, Y. Nishiyama, S. Jang, A. K. Dey JMIR Mhealth Uhealth 8.3 (Mar. 10, 2020) e16240. 2020. [Q1 Journal].
- [J12] Smartphone-Based Monitoring of Parkinson Disease: Quasi-Experimental Study to Quantify Hand Tremor Severity and Medication Effectiveness

 E. Kuosmanen, F. Wolling, J. Vega, V. Kan, Y. Nishiyama, S. Harper, K. V. Laerhoven, S. Hosio, D. Ferreira

 JMIR Mhealth Uhealth 8.11 (Nov. 26, 2020) e21543. 2020. [Q1 Journal].
- [J13] HealthyStadium: 他者評価とゲーミフィケーションを用いた食習慣改善ソーシャルメディア 栄元優作, <u>西山勇毅</u>, 大越匡, 中澤仁 情報処理学会論文誌 60.10 (Jan. 1, 2019) pp. 1881–1895. 2019.
- [J14] A Platform for Mutual Watch-Over among the Elderly Using PAN and Gamification
 J. Nakazawa, W. Sasaki, M. Obuchi, K. Egashira, Y. Nishiyama, T. Okoshi, T. Yonezawa, H. Tokuda
 The IEICE transactions on information and systems J101-D.2 (Jan. 1, 2018) pp. 306–319. 2018.
- [J15] MyFactor: ユーザの内面状態に寄与する因子情報の個人特性に適応的な分析 小渕幹夫, 西山勇毅, 大越匡, 米澤拓郎, 中澤仁 情報処理学会論文誌 58.10 (Jan. 1, 2017) pp. 1674–1687. 2017.
- [J16] Toward Health Exercise Behavior Change for Teams Using Lifelog Sharing Models

 Y. Nishiyama, T. Okoshi, T. Yonezawa, J. Nakazawa, K. Takashio, H. Tokuda

 IEEE Journal of Biomedical and Health Informatics 20.3 (Jan. 1, 2016) pp. 775–786. 2016. [Q1 Journal].
- [J17] ライフログデータを用いたチームの行動変容促進 西山勇毅, 大越匡, 米澤拓郎, 中澤仁, 高汐一紀, 徳田英幸 情報処理学会論文誌 56.1 (Jan. 1, 2015) pp. 349–361. 一般社団法人情報処理学会, 2015.

Proceedings (Refereed)

- [P1] Poster: Towards Estimating UV Index with a Smartphone Utilizing GNSS Signals as a Point Cloud S. Atsumi, R. Ishioka, K. Tsubouchi, Y. Nishiyama, K. Sezaki
 Proceedings of the 22nd Annual International Conference on Mobile Systems, Applications and Services, pp. 626–627, 2024, Tokyo, Japan.
- [P2] ReHEarSSE: Recognizing Hidden-in-the-Ear Silently Spelled Expressions X. Dong, Y. Chen, Y. Nishiyama, K. Sezaki, Y. Wang, K. Christofferson, A. Mariakakis Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems, 2024, Hawaii, US. [CORE A*].
- [P3] RideGuard: Micro-Mobility Steering Maneuver Prediction with Smartphones
 Z. Han, X. Dong, L. Xu, Z. Zhu, E. Wang, Y. Nishiyama, K. Sezaki
 2024 IEEE 44th International Conference on Distributed Computing Systems (ICDCS), 2024, Jersey City, New Jersey, USA. [CORE A].
- [P4] Exploiting Spatial and Descriptive Information for Generative Compression E. Hosonuma, T. Yamazaki, T. Miyoshi, A. Taya, Y. Nishiyama, K. Sezaki 2024 IEEE 21st Consumer Communications & Networking Conference (CCNC), pp. 1050–1051, 2024.
- [P5] Investigating Acceptable Voice-based Notification Timings through Earable Devices: A Preliminary Field Study M. Ito, K. Tsubouchi, N. Nishio, M. Shimosaka, A. Taya, K. Sezaki, Y. Nishiyama

 Adjunct Proceedings of the 2024 ACM International Joint Conference on Pervasive and Ubiquitous Computing and the 2024 ACM International Symposium on Wearable Computing, pp. xx–xx, 2024, Melbourne, Australia. [Best Poster Award].
- [P6] An Optimization Method for Indoor Trajectory Estimation from Spatially Sparse and Noisy Beacon Data J. Maruyama, Y. Honma, Y. Nishiyama, Y. Kawahara OHOW 2023 The 2nd International Symposium on One Health / Infrastructure Management and sustainable built environment, pp. 6–8, 2024, Basel, Switzerland.
- [P7] Experimental Evaluation Toward Mobility-Driven Model Integration Between Edges S. Ono, T. Yamazaki, T. Miyoshi, A. Taya, Y. Nishiyama, K. Sezaki 2024 IEEE 21st Consumer Communications & Networking Conference (CCNC), pp. 610–611, 2024.
- [P8] Poster: Location Awareness in AED Retrieval: An Simulation-Based Investigation
 H. Peng, A. Taya, Y. Nishiyama, K. Sezaki
 Proceedings of the 22nd Annual International Conference on Mobile Systems, Applications and Services, pp. 646–647, 2024, Tokyo, Japan.
- [P9] Toward Detecting Student-Athletes' Condition Using Passive Mobile and Wearable Sensing

 Z. Wang, A. Taya, K. Takaaki, K. Sezaki, Y. Nishiyama

 Adjunct Proceedings of the 2024 ACM International Joint Conference on Pervasive and Ubiquitous Computing and the 2024 ACM International Symposium on Wearable Computing, pp. xx–xx, 2024, Melbourne, Australia. [Best Poster Award].
- [P10] Deep Learning-Based Compressed Sensing for Mobile Device-Derived Sensor Data
 L. Xu, Y. Nishiyama, K. Tsubouchi, K. Sezaki
 Proceedings of the 33rd ACM International Conference on Information and Knowledge Management, pp. 5023–5030, 2024, Boise, ID, USA.

 [CORE A].
- [P11] HeadSense: Visual Search Monitoring and Distracted Behavior Detection for Bicycle Riders
 Z. Han, X. Dong, Y. Nishiyama, K. Sezaki
 2023 IEEE 24th International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), pp. 281–289, 2023, Boston,
 Massachusetts. [CORE A].
- [P12] HeadMon: Head Dynamics Enabled Riding Maneuver Prediction
 Z. Han, L. Xu, X. Dong, Y. Nishiyama, K. Sezaki
 IEEE International Conference on Pervasive Computing and Communications (PerCom), pp. 22–31, 2023, Atlanta, USA. [CORE A*].
- [P13] Enabling Block Transmission on Backoff-based Opportunistic Routing
 E. Hosonuma, Y. Nishiyama, K. Sezaki, T. Miyoshi, T. Yamazaki
 2023 IEEE 20th Annual Consumer Communications & Networking Conference (IEEE CCNC 2023), pp. 889–890, 2023.
- [P14] Opportunistic Division and Allocation of Machine Learning Task for WSN
 E. Hosonuma, N. Tanaka, T. Yamazaki, A. Taya, Y. Nishiyama, K. Sezaki, T. Miyoshi, T. Yamazaki
 2023 Fourteenth International Conference on Ubiquitous and Future Networks (ICUFN), pp. 58–60, 2023.
- [P15] A Trajectory Estimation Method from Spatially Sparse and Noisy Beacon Data Based on Spring Dynamics J. Maruyama, Y. Honma, Y. Nishiyama, Y. Kawahara Proceedings of the 10th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation, pp. 286–287, 2023, Istanbul, Turkey.
- [P16] Smartwatch-Based Sensing Framework for Continuous Data Collection: Design and Implementation
 Y. Nishiyama, K. Sezaki
 Adjunct Proceedings of the 2023 ACM International Joint Conference on Pervasive and Ubiquitous Computing and the 2023 ACM International Symposium on Wearable Computing, pp. 620–625, 2023, Cancun, Quintana Roo, Mexico.
- [P17] Cooperative Local Distributed Machine Learning Considering Communication Latency and Power Consumption S. Ono, T. Yamazaki, T. Miyoshi, Y. Nishiyama, K. Sezaki 2023 IEEE 20th Annual Consumer Communications & Networking Conference (IEEE CCNC 2023), pp. 678–679, 2023.

- [P18] Assessing Infant and Toddler Behaviors through Wearable Inertial Sensors: A Preliminary Investigation A. Onodera, R. Ishioka, Y. Nishiyama, K. Sezaki

 Companion Publication of the 25th International Conference on Multimodal Interaction, pp. 16–20, 2023, Paris, France.
- [P19] Convergence Visualizer of Decentralized Federated Distillation with Reduced Communication Costs A. Taya, Y. Nishiyama, K. Sezaki
 Proceedings of IEEE Global Communications (GLOBECOM) 2023, 2023, Kuala Lumpur, Malaysia. [CORE B].
- [P20] Detecting hand hygienic behaviors in-the-wild using a microphone and motion sensor on a smartwatch H. Zhuang, L. Xu, Y. Nishiyama, K. Sezaki
 Distributed, Ambient and Pervasive Interactions. Smart Living, Learning, Well-Being and Health, Art and Creativity: 11th International Conference, DAPI 2023, Held as Part of the 25th HCI International Conference, HCII 2023, 2023, Proceedings, Part II, pp. xx–xx, 2023.
- [P21] DoubleCheck: Detecting Single-Hand Cycling with Inertial Measurement Unit of Smartphone X. Dong, Z. Han, Y. Nishiyama, K. Sezaki
 IEEE International Conference on Pervasive Computing and Communications (PerCom), 2022, Pisa, Italy.
- [P22] DoubleCheck: Single-Handed Cycling Detection with a Smartphone X. Dong, Z. Han, Y. Nishiyama, K. Sezaki 2022 IEEE International Conference on Systems, Man, and Cybernetics (SMC), pp. 268–274, 2022. [CORE B].
- [P23] Head Dynamics Enabled Riding Maneuver Prediction
 Z. Han, X. Dong, Y. Nishiyama, K. Sezaki
 Proceedings of the 20th Annual International Conference on Mobile Systems, Applications and Services, pp. 557–558, 2022, Portland,
- [P24] A Micro-mobility Sensing System to Portray Riding Styles
 Z. Han, Y. Nishiyama, K. Sezaki
 Adjunct Proceedings of the 2022 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2022 ACM International Symposium on Wearable Computers, pp. 19–20, 2022, USA and UK.
- [P25] Poster abstract: UV index estimation leveraging GNSS sensors on smartphones
 R. Ishioka, Y. Nishiyama, K. Tsubouchi, K. Sezaki
 Proceedings of the 20th Conference on Embedded Networked Sensor Systems, Boston, USA, pp. 863–864, 2022, New York, NY, USA.
- [P26] Detecting Childcare Activities Using an Off-the-shelf Smartwatch
 Y. Kasahara, Y. Nishiyama, K. Sezaki
 2022 IEEE International Conference on Smart Computing (SMARTCOMP), pp. 159–161, 2022, Espoo, Finland.
- [P27] Toward Measuring Conversation Duration Using a Wristwatch-type Wearable Device Y. Komatsu, K. Shimojo, Y. Nishiyama, K. Sezaki 2022 IEEE International Conference on Smart Computing (SMARTCOMP), pp. 150–152, 2022, Espoo, Finland.
- [P28] A Plug-in Memory Network for Trip Purpose Classification
 S. Lyu, T. Han, Y. Nishiyama, K. Sezaki, T. Kusakabe
 Proceedings of the 30th International Conference on Advances in Geographic Information Systems, 2022, Seattle, Washington. [CORE A].
- [P29] MOCHA: Mobile Check-in Application for University Campuses Beyond COVID-19

 Y. Nishiyama, H. Murakami, R. Suzuki, K. Oko, I. Sukeda, K. Sezaki, Y. Kawahara

 The Twenty-third International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing, 2022, Seoul, Republic of Korea.
- [P30] Detecting Face-Mask Wearing Status Using Motion Sensors in Commercially Available Smartwatches S. Ono, Y. Nishiyama, K. Sezaki 2022 IEEE International Conference on E-health Networking, Application & Services (HealthCom), pp. 107–112, 2022, Genoa, Italy.
- [P31] A Preliminary Study for Detecting Visual Search Behaviors During Street Walking Using Earable Device K. Shimojo, Z. Han, Y. Nishiyama, K. Sezaki

 Adjunct Proceedings of the 2022 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2022 ACM International Symposium on Wearable Computers, pp. 19–20, 2022, USA and UK.
- [P32] Poster abstract: Recursive Queueing Estimation Using Smartphone-based Acoustic Ranging
 I. Sukeda, H. Murakami, Y. Nishiyama, H. Murakami, Y. Kawahara
 Proceedings of the 20th Conference on Embedded Networked Sensor Systems, Boston, USA, pp. 837–838, 2022, New York, NY, USA.
- [P33] Poster abstract: Room Scale Localization Improvement Utilizing Stay Time Characteristics of Each Room R. Suzuki, Y. Nishiyama, H. Murakami, Y. Kawahara, K. Sezaki
 Proceedings of the 20th Conference on Embedded Networked Sensor Systems, Boston, USA, pp. 839–840, 2022, New York, NY, USA.
- [P34] Enhancing Self-Protection: What Influences Human's Epidemic Prevention Behavior during the COVID-19 Pandemic L. Xu, Y. Nishiyama, K. Sezaki

 Distributed, Ambient and Pervasive Interactions. Smart Living, Learning, Well-Being and Health, Art and Creativity: 10th International Conference, DAPI 2022, Held as Part of the 24th HCI International Conference, HCII 2022, Virtual Event, June 26 July 1, 2022, Proceedings, Part II, pp. 336–351, 2022, Berlin, Heidelberg.
- [P35] Poster abstract: Convolutional Compressed Sensing for Smartphone Acceleration Data Compression L. Xu, Y. Nishiyama, M. Shimosaka, K. Tsubouchi, K. Sezaki
 Proceedings of the 20th Conference on Embedded Networked Sensor Systems, Boston, USA, pp. 810–811, 2022, New York, NY, USA.

[P36] Detecting Single-Hand Riding with Integrated Accelerometer and Gyroscope of Smartphone X. Dong, Z. Han, Y. Nishiyama, K. Sezaki

Adjunct Proceedings of the 2021 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2021 ACM International Symposium on Wearable Computers, pp. 19–20, 2021, Virtual, USA.

[P37] HeadSense: A Head Movement Detecting System for Micro-Mobility Riders Z. Han, X. Dong, Y. Nishiyama, K. Sezaki

Adjunct Proceedings of the 2021 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2021 ACM International Symposium on Wearable Computers, pp. 26–27, 2021, Virtual, USA.

[P38] MiMoSense: An Open Crowdsensing Platform for Micro-Mobility Z. Han, H. D. Nguyen, S. Aoki, Y. Nishiyama, K. Sezaki

2021 IEEE International Conference on Intelligent Transportation (ITSC), pp. 1–6, 2021. [CORE B].

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- [D63] チームの動機づけにおける個人の貢献度の可視化に関する一検討 西山勇毅, 米澤拓郎, 中澤仁, 徳田英幸 情報処理学会研究報告. UBI, [ユビキタスコンピューティングシステム], pp. 1–8, 2013.
- [D64] 野球選手の投球動作変化を用いた疲労度取得手法の提案: 投球障害予防支援システム構築に向けて 西山勇毅,瀧本拓哉,米澤拓郎,中澤仁,高汐一紀,徳田英幸 電子情報通信学会技術研究報告. USN, ユビキタス・センサネットワーク: IEICE technical report, pp. 119–125, 2011.

Contribution

Affiliation

Information Processing Society of Japan (IPSJ)

SIG Ubiquitous Computing System (UBI) - Steering Committee Apr. 2011 - Current

Member

Member

The Society of Instrument and Control Engineers (SICE)

SIG Smart Sensing System (SSS) - Steering Committee Apr. 2020 - Current

Association for Computing Machinery (ACM)

Member

Apr. 2013 - Current

Institute of Electrical and Electronics Engineers (IEEE)

Member

Apr. 2013 - Current

Japan Society of Physical Education, Health and Sport Sciences

Member

Apr. 2022 - Current

Japan Society for Software Science and Technology Member

Feb. 2023 - Current

Conference Organizer

2025	Sponsorship Chair , The 23rd ACM International Conference on Mobile Systems, Applications, and Services (ACM MobiSys2025)	Anaheim, California, US Khalifa
2025	Program Committee , The 7th International Conference on Activity and Behavior Computing (ABC2025)	University, Abu Dhabi, UAE (Hybrid)
2024	Technical Program Committee , IEEE International Conference on E-health Networking, Application & Services (HealthCom 2024)	Nara, Japan
2024	Program Committee, 26th ACM International Conference on Multimodal Interaction (ICMI 2024)	Costa Rica
2024	Technical Program Committee , 14th International Conference on the Internet of Things (IoT 2024)	Oulu, Finland
2024	Associate Editors , The Society of Instrument and Control Engineers (SICE) Annual Conference 2024	Kochi, Japan
2024	Local Chair , The 22nd ACM International Conference on Mobile Systems, Applications, and Services (ACM MobiSys2024)	Tokyo, Japan
		Nakatsu and
2024	Program Committee , The 6th International Conference on Activity and Behavior Computing (ABC2024)	Kitakyushu, Kyushu, Japan
2024	Technical Program Committee , 25th IEEE International Symposium on a World of Wireless,	(Hybrid) Western,
	Mobile and Multimedia Networks (WoWMoM) Associate Editors , The Society of Instrument and Control Engineers (SICE) Annual Conference	Australia
2023	2023	Tsu, Japan
2023	Publicity Chair , The 13th International Conference on the Internet of Things (IoT2023)	Nagoya, Japan
2022	Program Committee , The 4th International Conference on Activity and Behavior Computing (ABC2022)	London, United Kingdom (Hybrid)
2022	Associate Editors , The Society of Instrument and Control Engineers (SICE) Annual Conference 2022	Kumamoto, Japan
2021	Publicity Chair , The 19th ACM International Conference on Mobile Systems, Applications, and Services (ACM MobiSys2021)	Mars, Solar System
2021	Web Chair , The 13th International Conference on Mobile Computing and Ubiquitous Networking (ICMU2021)	
2021	Program Committee , The 3rd International Conference on Activity and Behavior Computing (ABC2021)	Bangkok, Thailand (Online)
2020	Publicity Chair , The 18th ACM Conference on Embedded Networked Sensor Systems (ACM SenSys2020)	Tokyo, Japan
2019	Program Committee for Late Breaking Results , The 21st International Conference on Human-Computer Interaction with Mobile Devices and Services (ACM MobileHCI2019)	Taipei, Taiwan
2018	Technical Program Committee , The 9th International Conference on Mobile Computing, Application and Services (EAI MobiCASE2018)	Osaka, Japan
2018	Co-organizer , Ubiquitous Mobile Sensing: Behaviour, Mood, and Environment (colocated workshop with ACM UbiComp 2018)	Singapore
2018	Web Chair , The 24th IEEE International Conference Embedded and Real-Time Computing Systems and Applications (IEEE RTCSA2018)	Hakodate, Japan
2017	Co-organizer , The 4th International Workshop on Ubiquitous Mobile Instrumentation (UbiMI2017) (collocated with ACM UbiComp 2017)	Maui, Hawaii, USA
2016	Co-organizer , The 3rd International Workshop on Ubiquitous Mobile Instrumentation (UbiMI2016) (collocated with ACM UbiComp 2016)	Heidelberg, Germany

Editorial Board

- Editorial Board Member, Journal of Information Processing (JIP) [Special Issue of Ubiquitous Computing Systems (XIII)]
- 2023 **Editorial Board Member**, Journal of Information Processing (JIP) [Special Issue of Ubiquitous Computing Systems (XII)]
- 2022 **Editorial Board Member**, Journal of Information Processing (JIP) [Special Issue of Ubiquitous Computing Systems (XI)]
- 2022 **Associate Editor**, Transactions of the Society of Instrument and Control Engineers
- 2021 **Associate Editor**, Transactions of the Society of Instrument and Control Engineers
- 2020 **Editorial Board Member**, Journal of Information Processing (JIP) [Special Issue of Ubiquitous Computing Systems (X)]
- 2020 **Associate Editor**, Transactions of the Society of Instrument and Control Engineers

Reviewer (Journal)

- **ACM IMWUT**: Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies [2018, 2019, 2020, 2021, 2022, 2023, 2024]
- IJHCS: International Journal of Human-Computer Studies (Elsevier) [2021, 2022]
- JCMSI: Journal of Control, Measurement, and System Integration (SICE JCMSI) [2021, 2022]
- MDPI Sensors [2021]

Reviewer (Conference, workshop, and poster/demo papers)

- ACM ICMI: The ACM International Conference on Multimodal Interaction [2023,2024]
- ACII: International Conference on Affective Computing and Intelligent Interaction [2024]
- **IEEE WoWMoM**: IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks [2024]
- IEEE HealthCom: IEEE International Conference on E-health Networking, Application & Services [2024]
- IoT: The International Conference on the Internet of Things [2023, 2024]
- ABC: International Conference on Activity and Behavior Computing [2022, 2023, 2024]
- ACM MobileHCI: The ACM International Conference on Mobile Human-Computer Interaction [2022]
- IEEE SMC: IEEE International Conference on Systems, Man, and Cybernetics [2022]
- **ACM UbiComp (Poster & Demo)**: The ACM international joint conference on pervasive and ubiquitous computing [2021, 2022, 2023, 2024]
- **ACM CHI (WiP)**: The ACM CHI Conference on Human Factors in Computing Systems is the premier international conference of Human-Computer Interaction[2022]
- ACM SenSys (Poster & Demo): The ACM International Conference on Mobile Systems, Applications, and Services [2019]
- ACM MUM (Rising Start Forum): The ACM International Conference on Mobile and Ubiquitous Multimedia [2018]
- ACM MobiSys (Rising Stars Forum): ACM International Conference on Mobile Systems, Applications, and Services [2018]
- AppLens: The 1st Workshop on Mining and Learning from Smartphones Apps for Users (ACM UbiComp's Workshop), [2018]
- **EmotionAware**: International Workshop on Emotion Awareness for Pervasive Computing with Mobile and Wearable Devices (IEEE PerCom's Workshop) [2018]

 UbiMI: International Workshop on Ubiquitous Mobile Instrumentation (ACM UbiComp's Workshop) [2016, 2017]

Development

SelfGuard: Self-tracking Application for Promoting Infection Prevention Behavior

AppStore

iOS App 2020-Current

https://sites.google.com/g.ecc.u-tokyo.ac.jp/selfguard/

MOCHA: Mobile Check-in Application for Safe and Reassuring Campus Life

AppStore/GoolgePlay

Flutter based iOS/Android Appn

2020-Current

https://mocha.t.u-tokyo.ac.jp/

SFC-GO (Going-Well Online): Remote Physical Education Support Application for SFC (Keio University Shonan Fujisawa Campus)

TestFlight

Flutter based iOS App

2020-2022

https://www.jn.sfc.keio.ac.jp/news/2020/07/06/2094/

eSense Client GitHub/AppStore

iOS App & Library 2018-Current

- AppStore: https://apps.apple.com/jp/app/esense-client/id1494692894
- GitHub: https://github.com/tetujin/ESense

SenbayKit: A Platform for Instantly Capturing, Integrating, and Restreaming of Synchronized Multiple Sensor-data Streams

GitHub

iOS/Android/macOS/Web-browser Library

2017-Current

- Homepage: http://www.senbay.info
- SenbayKit-iOS: https://github.com/tetujin/SenbayKit
- SenbayKit-macOS: https://github.com/tetujin/SenbayKit-macos
- SenbayKit-CLI: https://github.com/tetujin/SenbayKit-CLI
- SenbayKit-Browser: https://github.com/tetujin/SenbayKit-Browser

STOP-PD: Sentient Tracking of Parkinson's

GitHub/AppStore

iOS App

2018-2020

https://github.com/awareframework/STOP-iOS

AWAREFramework-iOS: AWARE Framework for iOS

GitHub/CocoaPods

iOS Library

2018-Current

- CocoaPods: https://cocoapods.org/pods/AWAREFramework
- GitHub: https://github.com/tetujin/AWAREFramework-iOS

AWARE Client iOS: Mobile Context Instrumentation Framework

GitHub/AppStore

2015-Current

iOS App

• Homepage: http://www.awareframework.com/

- GitHub: https://github.com/tetujin/aware-client-ios-v2
- AppStore: https://apps.apple.com/jp/app/aware-client-v2/id1455986181

Skills

DevOps GCP, Firebase, AWS, git, Travis

Platform iOS, macOS, watchOS, Android, Linux-based OS (Ubuntu, CentOS, Raspberry Pi等), Jetson, ESP32 (M5 Stack等)

Back-end Flask, FastAPI, Node.js, REST API, SQL&NoSQL-based DB, Realm

Front-end Flutter, HTML5

Programming Python, Swift, Dart2, Objective-C, C, JAVA, JavaScript

Languages English, Japanese