

VKU successfully organized the International Workshop on Sensor Networks and Mobile Intelligence Vietnam Workshop (SeMI 2024)

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On October 24-25, 2024, at Vietnam – Korea University of Information and Communication Technology (VKU), the University of Danang hosts the International Workshop on Sensor Networks and Mobile Intelligence Vietnam Workshop (SeMI 2024) to promote cooperation between Japanese and Vietnamese scientists and researchers in research fields related to sensor networks and mobile sensors. The SeMI 2024 workshop is chaired by the Technical Subcommittee of IEICE (Institute of Electronics, Information and Communication Engineers), Japan, with the support and hosting of Vietnam – Korea University of Information and Communication Technology.



Overview of the opening of the SeMI 2024 workshop

Attending SeMI 2024, on the VKU side, there were Assoc. Prof. Dr. Huynh Cong Phap – Rector of the University, Vice Rectors: Dr. Tran The Son, Dr. Huynh Ngoc Tho; on the IEICE SeMI side, there were Prof. Kazuya Monden – Chairman of the Technical Subcommittee (Hitachi Corporation, Japan), Vice Chairmen of the Technical Subcommittee: Prof. Yasunori Owada – National Institute of Information and Communications Technology, Japan, Prof. Shunsuke Saruwatari – Osaka University, Japan. Also attending were scientists and researchers from universities in Vietnam and Japan, along with lecturers and students of the Faculty of Computer Science, Faculty of Computer Engineering and Electronics.



Dr. Tran The Son – Vice Rector delivered the welcome speech at SeMI 2024

Speaking at the opening ceremony of SeMI 2024, Dr. Tran The Son – Vice Rector, Local Organizing Committee said: With the role, position and responsibility of VKU in the community and the development of science, technology, training in information technology and digital transformation for the Central – Central Highlands region and the whole country, we are honored to co-organize the SeMI 2024 International Workshop with IEICE. As one of three public universities specializing in information technology, and the only university in the Central – Central Highlands region specializing in training and in-depth research on information technology, communications and digital economy, VKU has created great attraction for domestic and foreign scientists. This is also an important foundation for developing current smart applications and systems such as smart cities, smart transportation, smart agriculture, etc.



Prof. Kazuya Monden – Chairman of IEICE SeMI Technical Subcommittee gave an opening speech

Representing IEICE SeMI, Prof. Kazuya Monden – Chairman of the Technical Subcommittee, was pleased and thanked VKU for accompanying and hosting SeMI 2024 in Da Nang. Thereby, Prof. Kazuya Monden said that SeMI was newly established in 2019 from 2 technical subcommittees Ambient Intelligence – Sensor Networks (ASN) and Mobile Networks – Applications (MoNA).

SeMI focuses on research and development areas such as ubiquitous networks, mobile networks, and new fields based on mobile sensors. Specifically, in addition to research and development of sensor technology, SeMI targets mobile technologies, including connected cars, wearable technology and robotics, and mobile ubiquitous computing that extracts valuable knowledge from collected sensor data.

The SeMI 2024 Workshop marks a breakthrough in both research quality and international cooperation scale with diverse studies contributing to improving understanding of new technologies, while also contributing to solving global practical challenges. In particular, research and development in the fields of smart sensors, AI, IoT, and networked systems have been creating outstanding applications, bringing great value to social life. Hopefully, the research presented at SeMI 2024 will continue to inspire and open up new directions for sustainable and comprehensive technology projects.

The SeMI 2024 International Workshop focuses on three main objectives: (1) Promoting research cooperation among experts, scientists and lecturers from many countries in the field of sensor networks and mobile intelligence; (2) Sharing the latest research and discussing technology development trends in areas such as the Internet of Things (IoT), artificial intelligence (AI), smart wireless networks, and mobile information systems; (3) Applying technology in practice, especially in building smart cities, energy management, and wireless communications.



Authors/Author Groups Present Papers

SeMi 2024 took place with in-depth discussions and speeches by international experts. Some of the prominent topics of the conference include:

- **Sensor Networks and IoT:** Studies on optimization of sensor networks, latency reduction in IoT-Blockchain and new methods to improve the reliability of wireless communication systems for IoT.
- **Mobile Intelligence and Machine Learning Systems:** Studies related to wireless federated learning, artificial intelligence and applications in robot control and smart cities.
- **Technology Development in Smart Cities:** Solutions to optimize transportation, energy and data management systems in smart urban environments.



In addition to the discussion sessions, SeMI 2024 featured four keynote presentations that provided insights into cutting-edge technology trends in the field of sensor networks and mobile intelligence, such as: (1) A Lightweight Image-based Malware Detection Model for IoT devices focuses on developing a low-computational complexity malware detection model suitable for IoT devices, enhancing security without reducing device performance (Dr. Tran The Son-VKU); (2) “Mobile wireless networks for underground sewer surveys” introduces mobile wireless networks for underground sewer surveys, optimizing data collection from hard-to-reach environments (Shizuoka University); (3) “HAPS Mobile Communications” presents advances in HAPS (High-Altitude Platform Stations) mobile communications, opening up efficient wireless connectivity possibilities from the upper atmosphere (Tomoaki Ohtsuki-Keio University); (4) “Circuit design in the AI era” explores the challenges and opportunities in electronic circuit design in the era of artificial intelligence, with a focus on performance optimization and AI applications in hardware development (Dr. Ray Nguyen-Marvell Semiconductor). These topics reflect the strong and diverse development trends in the fields of sensor networks, mobile intelligence, and AI applications.



Dr. Ray Nguyen – Senior Director of Analog and Hybrid Circuit Design at Marvell Technology, USA presented at the workshop

Within the framework of the SeMI 2024 Workshop, the Seminar on Regional Access Program, titled **“Inspiring the Young Generation with IC Design and Semiconductor Technology,”** was held on the afternoon of October 25, 2024. The seminar featured a presentation by Dr. Ray Nguyen, an outstanding engineer and Senior Director of Analog and Mixed-Signal Circuit Design at Marvell Technology in Silicon Valley, USA, on “Circuit Design in the Era of Artificial Intelligence.” Dr. Nguyen also shared practical success stories to address current challenges.

the International Workshop on Sensor Networks and Mobile Intelligence Vietnam Workshop (SeMI 2024) was successfully held with in-depth discussions and presentations by leading experts from both Vietnam and abroad. This event served not only as a platform for exchanging cutting-edge research on sensor networks and mobile intelligence but also as a gateway for scientific collaboration among Vietnamese and international researchers, especially from Japan.

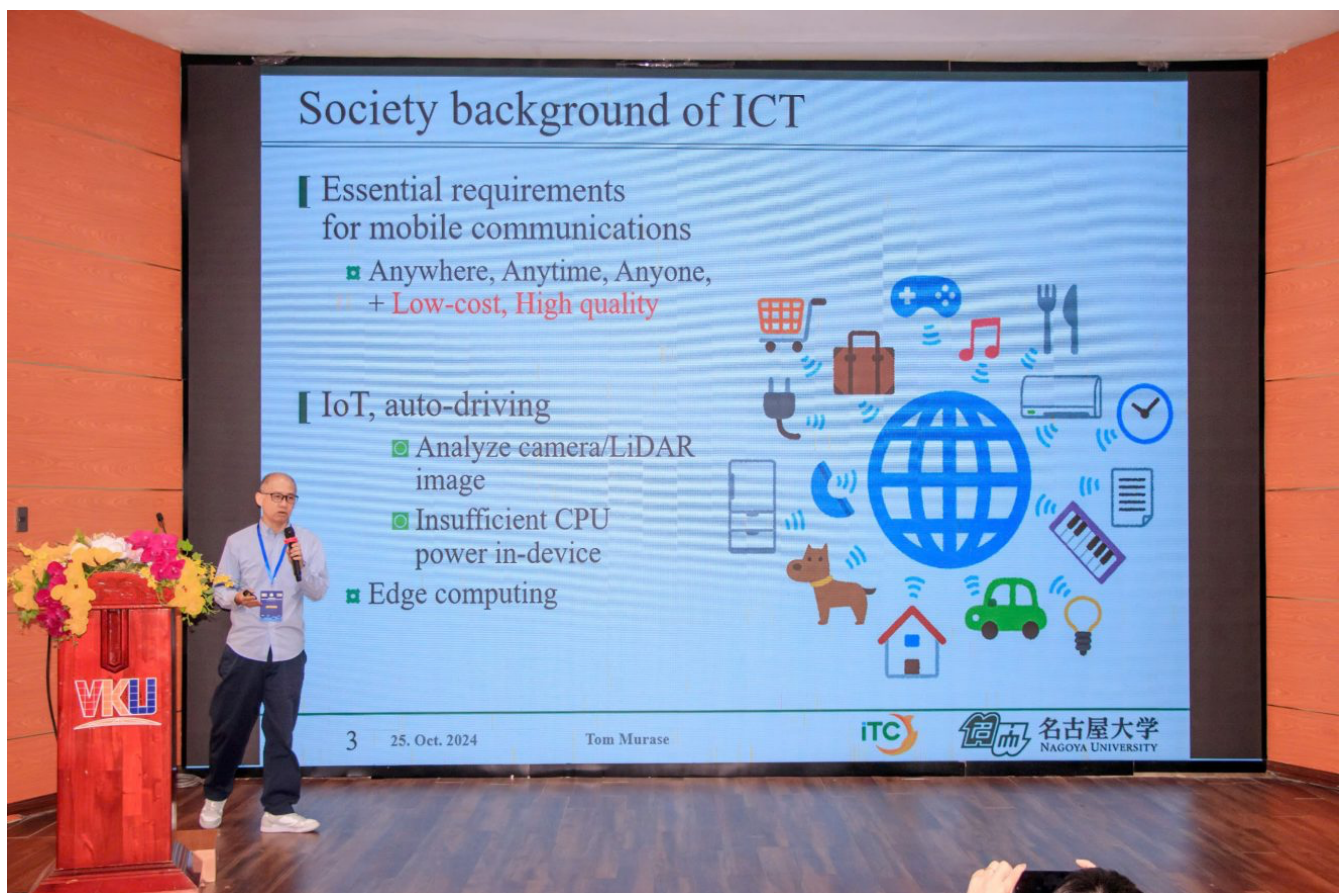
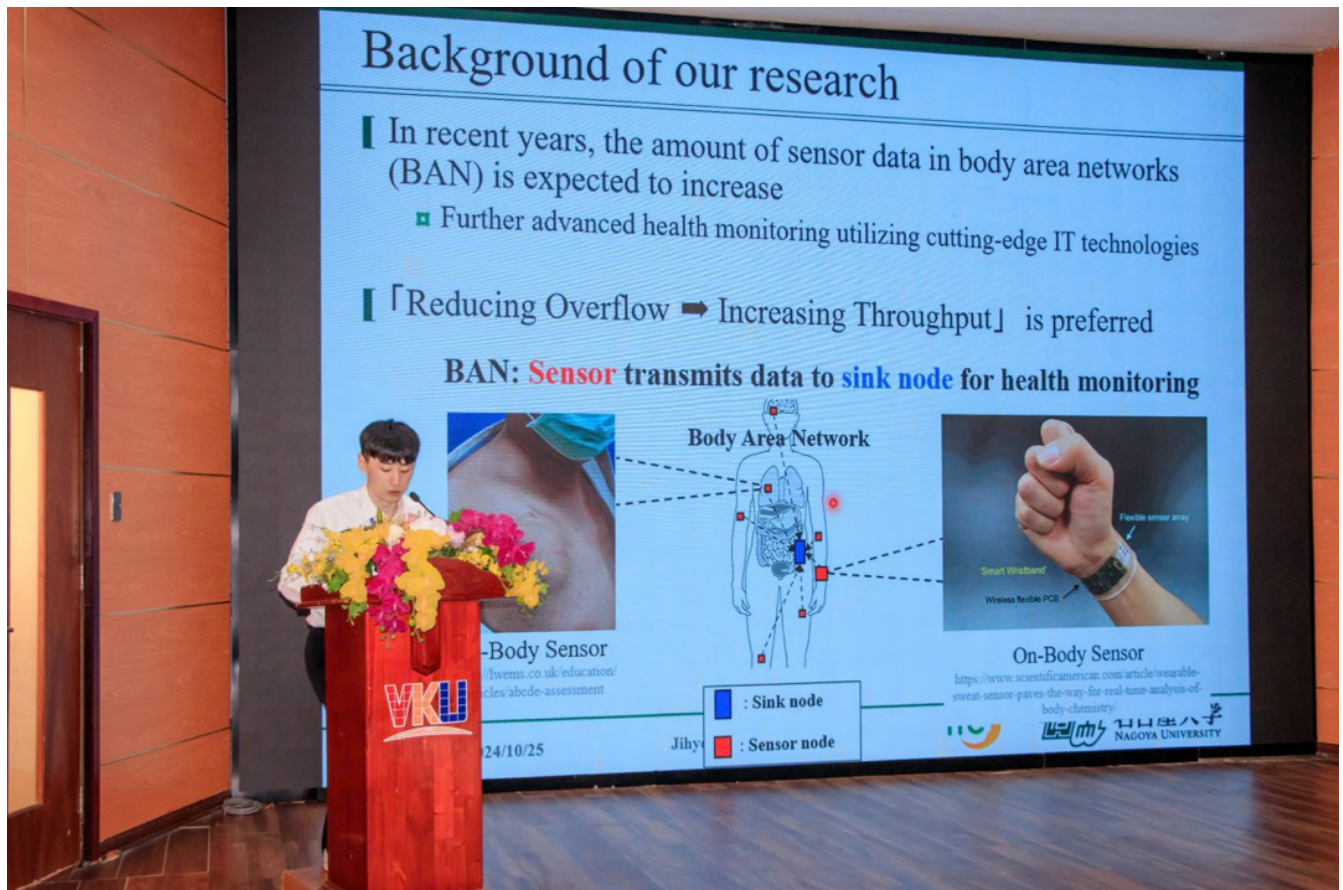
As the host institution, VKU has reinforced its position as a leading university for education and research in the Central and Central Highlands regions, as well as nationwide, continuing its mission to advance digital transformation, information technology research, and related fields. VKU's participation in international academic events like SeMI not only provides an opportunity to stay updated on the latest technological trends but also enhances the quality of its education and research, aiming to build a dynamic and modern academic environment.

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Some pictures:













40 Views

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