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AIoT Creating Everyday Value and Innovating Industry !

AIoT Week Korea 2024

2024. 10. 30 [Wed] ~ 11. 1 [Fri] / COEX

AIoT Week Korea Guidebook

AIoT

LOCK

Hosted by | Ministry of Science and ICT

Organized by | IITP Institute of Information & Communications Technology Planning & Evaluation | nipa National IT Industry Promotion Agency | KCA Korea Communications Agency | KISA KOREA INTERNET & SECURITY AGENCY | KETI Korea Electronics Technology Institute

ETRI Electronics and Telecommunications Research Institute | RAPA Korea Radio Promotion Association | TTA Telecommunications Technology Association | NIA NATIONAL INFORMATION SOCIETY AGENCY | IoT Korea Intelligent IoT Association

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AIoT Creating Everyday Value and Innovating Industry !

We invite you to 「**2024 AIoT Week Korea**」 to explore innovative applications of AI and IoT across industries, the public sector, and everyday life, as well as corporate growth strategies in the on-device AI era!

- A new stage in generative AI: Understanding trends in the on-device AI market
- Experiencing AIoT services in everyday life, such as smart home, smart office, and digital safety and security
- Presenting solutions for the digital transformation of industries and solving societal problems through AIoT

Event Schedule

Date	Classification	Venue – COEX 3F	Organizer
10.30(Wed) ~ 11.1(Fri)	AIoT Korea Exhibition 2024	Hall D	Korea Intelligent IoT Association
	AI+Things Showcase 2024	Hall D	nipa National IT Industry Promotion Agency
10.30(Wed)	AIoT Product / Solution Presentation	Hall D Seminar	Korea Intelligent IoT Association
	Conference on International Standard for Smart Homes (Matter)	Conference Room E5	TTA 한국정보통신기술협회
	DTRF Technical Exchange Meeting Creating a Technology Ecosystem for Digital Twin Interoperability and Alliance	Conference Room 300	디지털트윈연구자포럼 Digital Twin Researcher Forum
	AIoT Awards 2024	Hall D Seminar Room	2024 AIoT Week Korea Host/Organizer
10.31(Thu)	AIoT Conference 2024 Latest AIoT Technology Trends & Business strategies in the On-Divce AI Era	Conference Room E1~E4	IITP Institute of Information & Communications Technology Planning & Evaluation / KISA KOREA INTERNET & SECURITY AGENCY / Korea Intelligent IoT Association
11. 1(Fri)	AIoT Convergence case study Presentation	Conference Room 307	nipa National IT Industry Promotion Agency
	OCEAN Summit 2024 IoT Standards and Open-Source Conference : IoT, AI and Unmanned Vehicles	Hall D Seminar Room	KETI Korea Electronics Technology Institute / 사물인터넷 혁신융합대학사업단

※ Schedule may change depending on the circumstances of the organizers.

AIoT Korea Exhibition 2024

- Date : October 30(Wed) ~ November 1(Fri) 10:00 ~ 17:00
- Venue : COEX 3F, Hall D

The exhibition and demonstrations of AIoT intelligent services and solutions applied across various industries, including manufacturing, urban safety, healthcare, and home/office automation, IoT devices such as chips, modules, and sensors, IoT platforms, wireless communication technologies, as well as network equipment and components

Key Exhibits

AI+IoT Products and Solutions

Software ▸ Image/voice recognition analysis, predictive/preventive maintenance, digital twin, etc.

Platform ▸ IoT platform, cellular communication platform, device platform, open-source hardware platform

Device ▸ Chips, modules sensors, gateways, tags, readers, antennas, etc.

Communication Devices ▸ Wired and wireless communication equipment, parts, and more(5G, NB-IoT, Sigfox, e-Um 5G)

Security ▸ Device security, communication/network security, platform/services security, biometric security, etc.

Manufacturing Business

▸ Process and production management solutions, predictive diagnostics, smart factory, process automation systems, etc.

Industrial and Residential Safety Disasters and Catastrophes

▸ AI and IoT-based disaster response systems and solutions, digital safety management systems, etc.

Smart Home, Smart Office and Smart Healthcare

▸ Smart appliances/robots, home entertainment, smart work solutions, smart health/beauty care, special care and support service for the socially disadvantaged, etc.

Smart Cities, Smart Villages

▸ Smart transportation (including UAM), smart construction infrastructure, smart government, etc.

Energy & Environment

▸ AI and IoT-based energy-saving services, smart energy service platform, eco-friendly food resourceization, atmospheric environment monitoring and control system, etc.

Distribution·Logistics, Agricultural and Livestock Production

▸ AI and IoT-based logistics automation system, smart agriculture , agricultural and fishery production process management, etc.

Visitor Registration

- Online pre-registration : ~October 29(Tue) 18:00
  - Register on our homepage at www.aiotkorea.or.kr (pre-registration fee is free)
  - On-site registration fee is KRW 10,000
  ※ Pre-registration can reduce waiting time for pass issuance.
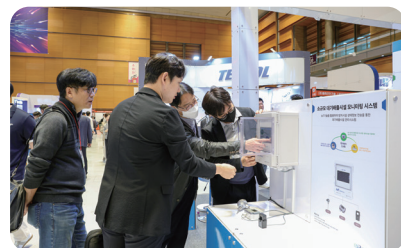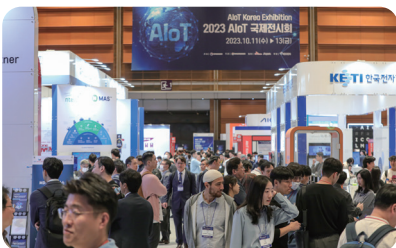
Organized by I Korea Intelligent IoT Association Contacts I Secretariat Eileen Kim (+82-2-555-1753 / hjkim@kfairs.com)

Korea Intelligent IoT Association Young-A BAE ((+82-2-3454-1260 / bae@kiot.or.kr)

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AI+Things Showcase 2024

▶ **Date** : October 30(Wed) ~ November 1(Fri) 10:00 ~ 17:00

▶ **Venue** : COEX 3F, Hall D (Booth No. D113)

Providing product promotion and commercialization opportunities for Korean AIoT SMEs offering AIoT products and services in the field of AI+Things*
 * Various products, devices, systems, or solutions that apply artificial intelligence (AI) technology

▶ **Participating companies** : AIMMO, Easy AI, BCM Tech, KOUNOSoft, KARAMELSOFT, TECH9, SYNERGY A.I.

▶ **Main Contents**
· Exhibition of various AIoT products/services and business consulting in the field of AI+Things
· Manufacturing site safety management system using AI edge computers, AI data pre-processing and management services
· Industrial computer hardware (AI edge cards, servers and computers, AI board development) and video technology for smart factories
· AI-based arrhythmia prediction software and AI-based complex sensor solution
· Intelligent (AI) system for monitoring forest disasters

Organized by I National IT Industry Promotion Agency   **Contacts** I Jin-Won Kim (+82-32-720-8120 / kjw@nipa.kr)
Operated by I Korea Enterprise Institute   **Contacts** I Bo-Ra Kong (+82-70-7606-5788 / brkong@koreaei.co.kr)

Conference on International Standard for Smart Homes (Matter)

▶ **Date** : October 30(Wed) 14:00 ~ 17:30

▶ **Venue** : COEX 3F, Conference Room E5

▶ **Main Contents**
· Introduction and outlook on the Matter technology developed by the Connectivity Standards Alliance (CSA)
· Matter technology application status and services of the lead members, including Samsung and LG
· Matter technology and services from the perspective of construction companies, and the application of wall pads
· Public key infrastructure (PKI)-based Matter certificate application and testing/certification policy

▶ **To Participate**
· For : Smart Home related companies and institutions
· Admission : Free
· Application Deadline : ~ October 25(Fri)
· How to Apply : Online Pre-registration through the homepage (www.aiotkorea.or.kr)

▶ **Program**

Time	Description	Presenter
14:00~14:20	Greetings	MSIT, TTA
14:20~15:20	Keynote presentation	Major member companies, including CSA, Samsung Electronics, and LG Electronics
15:20~15:40	Coffee Break	
15:40~16:00	Smart home service scenario from a wall pad perspective	Hyundai HT
16:00~16:20	Example of commercialization of Matter service on smart home platform	AqaraLife
16:20~16:30	Coffee Break	
16:30~16:50	Matter device development status and industry trends	What's Matter Inc.
16:50~17:10	Verification of device authenticity based on Matter PKI certificate	Dream Security
17:10~17:30	Matter testing and certification policy	TTA

※ Schedule may change depending on the circumstances of the organizers.

Organized by I Telecommunications Technology Association   **Contacts** I Sang-Guk, Jeong (jjssgg@tta.or.kr)

AIoT Product / Solution Presentation

▶ Date : October 30(Wed) 13:30~16:15
▶ Venue : COEX 3F, Hall D, Seminar Room

▶ To Participate
◎ For : Companies interested in products and services on exhibit
◎ Admission : Free
◎ Application Deadline : ~ October 25(Fri)
◎ How to Apply : Online Pre-registration through the homepage (www.aiotweek.kr)

▶ Program

Time	Products of Solutions presented	Speaker
13:30~13:45	Sigfox IoT Network	AMO-SNET
13:45~14:00	Full AI smart house solution (HW, biometrics, cloud, and app)	CVT
14:00~14:15	Medical AI software that detects and predicts the risk of arrhythmia within 4 days: Mac'AI	Synergy A.I.
14:15~14:30	Smart Doorlock L100/G5 smart camera, and products to be released in 2025	AqaraLife
14:30~14:45	Disaster/Safety ready-to-install AIoT solutions that can operate without power	TECH9
14:45~15:00	Requirements for Matter-supported smart home devices: Dream Matter Certificate services	Dream Security
15:00~15:15	Smart factory gauge reading solution that connects robots and the metaverse: PINCAM	KARAMELSOFT
15:15~15:30	Industry-specific application cases of DX solutions incorporating Hikvision AIoT technology	Hikvision
15:30~15:45	Module sensors that convert analog sensors to wireless on construction sites	Monnit Korea
15:45~16:00	Public and private safety control platform for electric vehicle charging stations based on AIoT to preempt fire/electric shock incidents	The Power Brains
16:00~16:15	Chat agent that delivers customized services with advanced web-crawling technology	WILCON Technology

※ Schedule may change depending on the circumstances of the organizers.

Organized by | Korea Intelligent IoT Association   **Contacts |** Seo-Rin, Moon (📞 +82-70-4892-4705 / ✉ msr1111@kiot.or.kr)

AIoT Awards 2024

▶ Date : October 30(Wed) 11:20~12:00
▶ Venue : COEX 3F, Hall D, Seminar Room

▶ **Awards in recognition of contribution to promoting IoT Industry**
  · Awarded by the Minister of Science and ICT to companies and individuals for their contributions to the IoT industry

▶ **AIoT Innovation awards**
  · Awarded to companies that have created excellent performance in five AIoT-related fields
    (service, technology, standard, security, and product)

▶ **National Idea Contest Awards for AI@Home**
  · Awards for ideas related to AI@Home services or devices using digital innovation technology

Organized by | 2024 AIoT Week Korea Host/Organizer

Contacts | Korea Intelligent IoT Association Young-A, Bae (📞 +82-2-3454-1260 / ✉ bae@kiot.or.kr)

DTRF Technical Exchange Meeting 2024

Creating a Technology Ecosystem for Digital Twin Interoperability and Alliance

▸ **Date** : October 30(Wed) 14:00~18:00
▸ **Venue** : COEX 3F, Conference Room 300

▸ **To Participate**
◎ For : DTRF members and R&D personnel engaged in industry-academic collaborations involving digital twin technology
◎ Admission : Free
◎ Application Deadline : ~ October 25(Fri)
◎ How to Apply : Online Pre-registration through the homepage (www.aiotweek.kr)

▸ **Program**

Time	Presentation Topic	Presenter
Opening Ceremony		[Moderator: Professor Woo-yong Kim, Sejong University]
14:00~14:30	Welcome and congratulatory remarks	-
	Introduction to the forum	Digital Twin Researcher Forum (DTRF)
Session 1. Digital Twin Strategy and Policy Trends		[Moderator: Se-han Kim, Department Head, ETRI]
14:30~15:00	Government Strategies and Trends for Digital Twins	Ministry of Science and ICT
15:00~15:30	Digital twin consulting and validation based on risk analysis	Sang-un Yang, Team Leader, TTA
Session 2. Trends in Federated Digital Twin Technology Development		[Moderator: Sun-il Cha, Department Head, TTA]
15:30~16:00	Federated Digital Twin Framework 1.0 Open Source	Chan-won Park, Department Head, ETRI
16:00~16:30	Coffee Break	
Session 3. Trends in the development of digital twin private/public services		[Moderator: Byeong-ju Jeong, Headquarter Director, NIA]
16:30~17:00	Digital Twin Water Quality Prediction Software as a Service (SaaS) – Development & Demonstration Project	Yong-ju Jeon, CEO, Dtonic Corporation
17:00~17:30	Digital Twin Pilot Zone (Downtown) Creation Project	Chang-yoon Lee, Department Head, LX
17:30~18:00	Science and Technology-Based Crowd Management Technology Development Project	Ik-jae Kim, Research Director, KIST

※ Schedule may change depending on the circumstances of the organizers.

Organized by | Digital Twin Researcher Forum   **Contacts |** Secretariat (☎ +82-2-564-2827 / ✉ dtrf@dtrf.or.kr)

AIoT Conference 2024

Latest AIoT Technology Trends and Business Strategies in the On-Device AI Era

▶ Date : October 31(Thu) 10:00~17:00
▶ Venue : COEX 3F, Conference Room E1~E4

▸ Korea's global growth strategy and government policy direction in the age of digital sovereignty
▸ The need for on-device AI in the IoT field, and the latest technology trends associated with it
▸ Global Enterprise and Standards Trends in the Age of Generative AI
▸ Use cases of digital technologies such as AIoT and edge AI, as well as domestic and foreign IoT security policies and enhancement measures, and more

Registration deadline and fee (per person)

	Pre-Registration (~ Oct.18, 2024)	On-site Registration (Oct.31, 2024)	Note
Member	KRW 150,000	KRW 200,000	– 10% discount for groups of 10 or more (pre-registration only)
Non-Members	KRW 200,000	KRW 250,000	– The deadline for payment of the pre-registration fee is Oct.18. – Cancellation of registration (refund) is limited to those who apply by Oct.18, 2024

※ Member Criteria : Member of Korea Intelligent IoT Association

How to Apply

Individual	Online pre-registration through the homepage (www.aiotkorea.or.kr)
Group	Download the group application form from the website and send it to e-mail(bae@kiot.or.kr)

※ Payment info (Bank & Account No.) Hana Bank,165-910030-08004 (Account Holder) Korea Intelligent IoT Association
(Swift Code) KOEXKRSE

Offers

❶ Presentation PDF (on-site download)
❷ Lunch coupon (at a designated restaurant)
❸ Free entry to 2024 AIoT Korea exhibition

Prize Draw : after each track ends

Smart Watch
(Galaxy Watch 7)
4people
(1 people for each track)

Mobile Coupon
(KRW 100,000)
8people
(2 people for each track)

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Program	During conference presentations, an AI-based Korean-English simultaneous interpretation (text) service is provided available on individual mobile phones, laptops, etc.

Keynote — Business Strategy and Government Policy in the Age of On-Dive AI

Time	Presentation Topic	Presenter
	(Moderator: Professor Woo-yong Kim, Sejong University)	
10:00~10:30	Sovereign AI: Korea's Global Growth Strategy in the Age of Generative AI	Jung-woo Ha, Center Director, Naver Cloud Corp.
10:30~10:50	Government's AIoT Policy	Ministry of Science and ICT
10:50~11:20	Is the Age of Artificial General Intelligence (AGI) Coming?	Kyung-il Lee, CEO, Saltlux
11:20~12:00	A New Stage for Generative AI, On-Device AI	Jun-ki Lee, Director, AI Center, Samjong KPMG

Track 1 — Technology Trends

Time	Presentation Topic	Presenter
Session 1. On-Device AI Technology Trends		(Moderator: Il-yeop Ahn, Center Director, KETI)
13:40~14:10	On-Device AI Technology Trends	Seok-jun Lee, Senior Researcher, KETI
14:10~14:40	AI Model Lightweight Technology Trends for Implementing On-Device AI	Seok-young Jo, Chief of Staff, Nota AI
14:40~15:10	Small Language Model (sLM) Technology Trends	Hong-seop Choi, CEO, Maum AI
Session 2. Future Technology Trends		(Moderator: Dong-Hoon Lim, Team Leader, IITP)
15:30~16:00	AIoT R&D Strategy and Promotion Direction	Chang-won Ahn, PM, IITP
16:00~16:30	5G-V2X and Connected Mobility	Seung-soo Hong, Chief Business Officer, Ettifos
16:30~17:00	Autonomous IoT Technology Trends and Prospects	Chan-won Park, Department Manager, ETRI

Track 2 — Global Trends

Time	Presentation Topic	Presenter
Session 3. Global Standardization Trends		(Moderator: Jeong-heon Kim, Team Leader, TTA)
13:40~14:10	Standardization Trends in AIoT Networking Technology	Yong-geun Hong, Professor, Daejeon University
14:10~14:40	Standardization Trends in CitiVerse	Geun-yeong Kim, Researcher, ETRI
14:40~15:10	Standardization Trends to Ensure Trustworthy AI	Jun-ho Kwak, Team Leader, TTA
Session 4. Global Business Trends		(Moderator: Professor Jun-seok Park, Kookmin University)
15:30~16:00	Amazon Web Services (AWS) Generative AI and IoT	Joo-heon Choi, Solutions Architect, AWS
16:00~16:30	Development of AIoT in China	Liu Xuemei, Director, Northeast Asia Digital Economy Industry Collaborative Innovation Center
16:30~17:00	Status of the IoT market in Asia	Kyung-jun Lee, Branch Manager, MultiTax Systems

※ Schedule may change depending on the circumstances of the organizers.

Track 3 — Service Trends

Time	Presentation Topic	Presenter
Session 5. Industrial Use Cases		(Moderator: Professor No-jeong Heo, Dongyang University)
13:40~14:10	Introduction to Smart Mobility Safety Infrastructure Technology Based on Autonomous Driving Activation	Young-shin Kim, CEO, Gragtor
14:10~14:40	Digital Innovation Cases in Industry using Edge AI	Jun-hyung Jo, Manager, Advantech KR
14:40~15:10	Key use cases based on on-device AIoT technology	Seung-chan Kim, Team Leader, KT Corp.
Session 6. Digital Safety & Security		(Moderator: Professor Gwang-ho Jang, Hanshin University)
15:30~16:00	Use cases of AIoT technology in the field of public security	Nam-Woo Lee, Team Leader, Korea Institute of Police Technology
16:00~16:30	Anomaly Detection Technology and Case Study for Implementing Social Safety Network Services	Gyu-Baek Kim, Department Manager, SK Telecom
16:30~17:00	Cases of Real-Time Safety Diagnosis of Wire Ropes in Industrial Sites Using AIoT	Seong-Su Yoo, Director, Nkia

Track 4 — Security Trends

Time	Presentation Topic	Presenter
Session 7. IoT Security Policy and Vulnerability Management		(Moderator: Professor Seong-jae Lee, Kangwon National University)
13:40~14:10	Introduction to IoT Security Labeling and Certification Schemes at Home And Abroad	Jae-hyung Lee, Team Leader, KISA
14:10~14:40	Measures to Strengthen Supply Chain Security for IoT Businesses	Dong-hwa Lee, Team Leader, KISA
14:40~15:10	Actions to Manage IoT Security Vulnerabilities	Young-min Cho, CEO, ZIEN
Session 8. AIoT Security Enhancement Measures		(Moderator: Jeong-nyeo Kim, Director, ETRI)
15:30~16:00	Lightweight, Quantum-Resistant Signature in the IoT Environment	Gwang-jo Kim, Emeritus Professor, KAIST
16:00~16:30	AIoT Security in AI Environments	Tae-kyung Kwon, Professor, Yonsei University
16:30~17:00	Measures to Strengthen Future Convergence Security	Han-sol Yoo, Team Leader, KISA

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OCEAN Summit 2024

IoT Standards and Open Source Conference : IoT, AI, and Unmanned Vehivles

▶ **Date** : November 1(Fri) 10:00~16:00

▶ **Venue** : COEX 3F, Hall D, Seminar Room

▶ **To Participate**

◎ For : Developers, researchers, and others involved in the field of IoT, AI, robotics, and unmanned vehicles

◎ Admission : Free

◎ Application Deadline : ~ October 25(Fri)

◎ How to Apply : Online Pre-registration through the homepage (www.aiotweek.kr)

▶ **Program**

Time	Presentation Topic	Presenter
10:00~10:30	Registration and Reception	
10:30~10:40	Opening Ceremony	
Session 1: Standards and Open Source	[Moderator: Il-yeop Ahn, Center Director, KETI]	
10:40~11:00	Trends in oneM2M standardization	Jae-seung Song, Professor, Sejong University
11:00~11:20	Introduction to Mobius 4, the open source IoT platform	Seung-myeong Jeong, Chief researcher, KETI
11:20~11:40	Robot operating system (ROS) Technology Overview and Use Cases	Dae-sang Yoo, Director, Elcomtech
11:40~12:00	Global standardization trends in AI (JTC 1/SC 42)	Young-im Cho, Professor, Gachon University
12:00~13:30	Individual lunch, and visit to the AIoT Korea Exhibition 2024	
Session 2: Technology and Solutions	[Moderator: Jae-ho Kim, Professor, Sejong University]]	
13:30~14:00	Quadruped robot and remote control technology	Ki-woong Song, Managing Director, KRM
14:00~14:30	AI-based autonomous robot arm manipulation technology	Jin-hwi Lee, Professor, Tech University of Korea
14:30~15:00	Autonomous mobile robot platform technology based on ROS	Hee-seop Jeong, Director, WeGo Robotics
15:00~15:30	Teleoperation services for intelligent unmanned vehicles	Ki-ryeong Kim, CEO, TeamGrit
15:30~16:00	Technology to improve the operation-friendliness of unmanned vehicles	Il-yeop Ahn, Center Director, KETI

※ Schedule may change depending on the circumstances of the organizers.

Organized by | Korea Electronics Technology Institute, IoT Convergence & Open Sharing System

Contacts | Korea Electronics Technology Institute Seung-Myung, Jeong 📞 +82-31-789-7599 / 📧 sm_Jeong@keti.re.kr

AIoT Convergence Case Study Presentation

Date : November 1(Fri) 13:30~17:00
Venue : COEX 3F, Conference Room 307

To Participate
◎ For : Open to anyone with an interest in AIoT, including companies and institutions
◎ Admission : Free
◎ Application Deadline : ~ October 25(Fri)
◎ How to Apply : Online Pre-registration through the homepage (www.aiotweek.kr)

Program

Time	Presentation Topic	Presenter
13:30~13:40	Opening Ceremony	
Session 1 : Government-sponsored AIoT best practices		
13:40~14:10	Smart safety helmet-based worker safety management platform	Heong-seop Han, CEO, HHS
14:10~14:40	Innovation in AIoT-based smart home music platform	Soon-cheol Jang, CEO, Emotionwave
Session 2 : CES 2024 innovation award winning cases in the AIoT field		
14:40~15:10	AIoT Pet OS that manages the health of pets and more	Daeyong Kim, CEO, The Littlecat
15:10~15:40	Wheeled, self-driving delivery robot that clears obstacles	Jin Choi, CEO, MOBINN
15:40~16:10	AIoT solution for AI music recommendation based on an understanding of user emotions	Woo-Joo Jeong, CEO, iNDJ
Session 3 : Best Practices from the National Idea Contest for AI@Home		
16:10~17:00	Announcement of the Winners of the National Idea Contest for AI@Home	

※ Schedule may change depending on the circumstances of the organizers

Organized by | National IT Industry Promotion Agency
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