AIoT for a safe & convenient future!

AIoT Week Korea 2022

Global trends of and business innovation strategies for AIoT - AIoT Conference 2022 –

Oct. 20(Thu) 2022, 10:00-17:00
Conference Room E, 3F, COEX, Seoul, Korea
※ Hybrid conference(in-person and online)

Program

※ Simultaneous interpretation between Korean and English will be provided.

Track 1

Keynote presentations:
AIoT global trends, and ESG strategies of ICT companies

Moderator: Woo-Yong Kim, Professor, Konkuk University

Time	Presentation Topics	Speakers
10:00~10:40	**The latest AIoT trends presented at Hanover Messe 2022, and design for Korea's industrial competitiveness** - Build edge-based AIoT libraries and a marketplace through connection and visualizaion - Creation of EU digital economy ecosystem through GAIA-X, and digital transformation of automobile industry through Catena-X - Accumulate manufacturing industry competitiveness using AIoT-based digital footprints and strengthen the digital economy ecosystem	Mun-Gu Park, Executive Director, KPMG Samjong
10:40~11:00	**Korean government's AIoT policy**	Jeong-sam Kim, Director General, Ministry of Science and ICT
11:00~11:30	**Strategies for End-to-End Data Connection and Platform Building** - Edge strategy for data integration and preprocessing - Strategies to derive insights through data analysis and visualization - Data analysis problems and solutions	Ju-seok Lee, Vice President, Intel Korea
11:30~12:00	**Latest ESG trends and ICT companies' response strategies** - Domestic and overseas ESG policy trends and implications - Response direction of Korean companies based on ESG response strategies of major ICT companies	Dong-soo Kim, Head of ESG Research Center, Kim & Chang

Track 2

Session 1: AIoT-based ICT convergence project Performance in Public Sector in 2022 and Promotion Direction for 2023

Moderator: Sang-hyun Park, Director of Department of ICT Convergence, NIA

Time	Presentation Topics	Speakers
13:30~13:50	**ICT convergence project promotion strategy and plan in the public sector** - Introduction to ICT convergence project promotion model and strategy - Main details of the project in 2022 and promotion plan in 2023	Hae-kyung Lee, Head of Convergence Planning Team, NIA
13:50~14:10	**Cases of public service innovation using new digital technologies** - Best practices for public service innovation using digital new technologies - Introduction to innovation projects in digital public service and future plans	Jae-hyung Moon, Head of Convergence Service Team, NIA
14:10~14:30	**Application cases of digital twin infrastructure and promotion plans** - Intelligent informatization of national infrastructure based on digital twins - Taking the lead regarding 5G-based digital twins in the public sector	Byeong-joo Jeong, Head of Smart Infrastructure and Environment Team, NIA
14:30~14:50	**Best practices of smart village projects for digital transformation and balanced development of local communities** - Cases of strengthening the competitiveness of farming and fishing villages by applying digital new technology and solving local pending issues - Cases of construction of a smart senior citizen center	Young-joo Lee, Head of Smart Healthcare and Welfare Team, NIA
14:50~15:10	**Establishment of a public innovation platform to create an innovation ecosystem in the private sector** - Public innovation platform promotion plan and cases through public-private cooperation - Introduction and examples of SW projects that attract private investment (private investment-type public software project)	Byung-ho Han, Head of Public Innovation Business Platform Team, NIA

Session 2: Promotion trends of business ecosystem based on AIoT convergence business

Moderator: Jun Hee Park, Assistant Vice President, ETRI

Time	Presentation Topics	Speakers
15:20~15:40	**Quantum technology-based AIoT convergence business ecosystem implementation strategy** - Global R&D trends in the field of quantum security and quantum computing - Quantum security and quantum computing technology that can be used from the perspective of IT technology - Strategies for introducing quantum technology and establishing a business ecosystem for Korean AIoT companies	Jiwon Yune, CEO, SDT Inc.
15:40~16:00	**Urban air mobility (UAM) business status and direction** - Historical background of and key trends in UAM - SKT's UAM business promotion direction	Jong-il Kim, Team Leader, SK Telecom Co., Ltd.
16:00~16:20	**Logistics-based AIoT convergence ecosystem promotion strategy** - KT's logistics digital transformation (DX) business promotion strategy - KT's logistics DX ecosystem evolution direction	Myung-hoon Jung, Team Leader, KT corp.
16:20~16:40	**Smart office-based AIoT ecosystem construction and implications** - AIoT-based emotionally intelligent office business model and status of partner companies - Emotionally intelligent office service ecosystem construction process and its implications (difficulties, etc.) - Emotionally intelligent office service ecosystem development direction	Byeong-hoo Park, CEO, DongApm corp.
16:40~17:00	**Smart home fire safety service-based corporate ecosystem establishment strategy** - Lab fire and safety management solution - Kitchen fire and air quality management solution - Home or shop fire and air quality management solution	Yeon-gyu Jeong, CEO, Grib Co., Ltd.

Track 3

Session 3 : AIoT convergence technology and standard trends

Moderator: Yoo-sang Lee, Team Leader, IITP

Time	Presentation Topics	Speakers
13:30~13:55	**Development of disposable IoT nanosensors for environmental monitoring and biosignal detection** - Multiplex environmental and bio-signal nanosensors - Patch-type interface for disposable devices - Interface for multiplex IoT sensor signal processing	Heungjoo Shin, Professor, UNIST
13:55~14:20	**Autonomous IoT technology development status and trend** - Necessity of autonomous IoT concept and technology development - Autonomous IoT technology and policy trends	Sunhwan Lim, CTO, ETRI
14:20~14:45	**Key Features of home automation connectivity standard Matter, and future market prospects** - Essential protocols for the era of ambient intelligence based on intelligent IoT - Impact of IoT standard Matter on existing smart home businesses, and response strategies - A business paradigm shift from device-centered to service-oriented	Hak-yong Kim, Director, IoT Strategy Research Center
14:45~15:10	**AIoT technology for digital twins** - CPS-related IoT technology trends including digital twins and metaverse - Analysis of intelligent IoT requirements in the environment of cyber-physical systems (CPS)	Tae-won Uhm, Professor, Chonnam National University

Session 4 : AIoT convergence cases for industrial and public safety

Moderator: Jun-seok Park, Professor, Kookmin University

Time	Presentation Topics	Speakers
15:20~15:45	**Construction example of ship communication, and safety monitoring system for underground facilities using convergence-IoT solutions** - Establishment of communication network in metal structure using metal surface wave communication - C-IoT solution to overcome extreme environments combining surface wave, wireless, and wired communication - Overcoming radio wave shading areas of smart ships and underground facilities	Hak-sun Kim, CEO, Sunny Wave Tech
15:45~16:10	**Safety management service for dangerous and hazardous substances in smart cities and industrial complexes** - Introduction to environmental/safety solutions using industrial IoT - Application examples of environmental/safety solutions for factories, plants, and power plants - Examples of integrating smart city with environment/safety solutions	Kang-soon Park, Department Head, LG Uplus Corp.
16:10~16:35	**R&D of security data for smart security** - Utilization of science and technology research via a big data platform for smart security - Expansion of development of a platform for preemptive police activities using science and technology	Kwang Ho Jang, Director, Smart Security Policy Center, Korean National Police University
16:35~17:00	**Construction cases of IoT-based real-time firefighting management service** - Introduction and necessity of real-time firefighting facility management system (Rt-FFMS) - Rt-FFMS construction status and development direction in regional firefighting headquarters in Seoul, Incheon, Daejeon, etc. - AI-based response strategy for natural hazards triggering technological disasters (Natech disasters) linked to Rt-FFMS	Sungmin Jung, CEO, Beaming Core Co., Ltd.

※ The schedule above is subject to change under certain circumstances.