2026 NRF Information & Convergence Technology Research Results Exchange Meeting

Date/Time	July 9(Thu.), 2026/ [Poster] 10:30-12:00, [Oral] 14:00-18:00
Introduction	The purpose of this session at NANO KOREA is to share research achievements and conduct an interim review of international collaboration projects, thereby strengthening interactions with overseas researchers.

Program

Session	Time	Presentations
Poster Presentation ■ Time: 10:30-12:00 ■ Place: Exhibition Hall 4 (1F)		
Poster [SST_P]	10:30-12:00	**[SST_P_1]** **Development of Humanoid Avatar Robot with Human-Level Multimodal Sensing Systems and Precise Remote Teleoperation Interface** Dongjun Kim[1], Mingu Kim[2], Changjoo Nam[3], Sanghyun Kim[4], Sungmoon Hur[5], Oussama Khatib[6], and Jaeheung Park[1] ([1]Seoul National University, [2]Yonsei University, [3]Sogang University, [4]Kyung Hee University, [5]Blue Robin Co., Ltd., [6]Stanford University)
		[SST_P_2] **A Korean Lip Reading Keyword Database for Integrated Safety and Security Monitoring at Mass Gathering Events** Kyung-Soo Lim and Sang Won Ghyme (Electronics and Telecommunications Research Institute)
		[SST_P_3] **High-Fidelity and Trustworthy Teleinteraction Platform** Jingyu Lee[1], Kyungjin Lee[1], Changmin Jeon[1], Kichang Yang[1], Dongho Han[1], Hyunsoo Kim[1], Jinmyeong Kim[1], Kyuin Lee[2], Younghyun Kim[3], and Youngki Lee[1] ([1]Seoul National University, [2]University of Houston, [3]Purdue University)
		[SST_P_4] **EEG-Based Neurofeedback Training for Improving Speech Understanding in Noise: A Cross-Site Study in Korea and US** Hyosung Joo[1], Yoonseob Lim[2], Seokhyun Bae[1], Jukyung Lee[1], Jusung Ham[3], Inyong Choi[3], and Jihwan Woo[1] ([1]University of Ulsan, [2]Korea Institute of Science and Technology, [3]The University of Iowa)
		[SST_P_5] **Neural Correlates of Speech Tracking Across Listening Conditions in Older Adults** JeeWon Lee[1], Sangbeom Jun[1], and Yoonseob Lim[2] ([1]Ewha Womans University, [2]Korea Institute of Science and Technology)
		[SST_P_6] **Development of an AI-Driven Hearing Assistive Technology Targeting Auditory External Attention** You Jeong Hong[1], Wonchul Shin[1], Injun Hwang[1], Ahyeon Choi[1,2], Yunkee Chae[1], Eunice Hong[1], Subeen Kim[1], Jusung Ham[2], Inyong Choi[2], and Kyogu Lee[1] ([1]Seoul National University, [2]The University of Iowa)
		[SST_P_7] **Smartphone-Based Ecological Momentary Assessment of Listening Engagement and Psychosocial Experience in Hearing Aid Users versus Non-Users** Hee Jung Yun[1,2], Jonghwa Park[3], Jeongmi Park[3], Mini Jo[1], Jinnyeong Jang[1], Geonwoo suh[1,2], and Il Joon Moon[1,4] ([1]Samsung Medical Center, [2]Sungkyunkwan University, [3]Bell Therapeutics Inc., [4]Sungkyunkwan University School of Medicine)
		[SST_P_8] **Toward Robotic Experimentation as Humans Do: Pipetting with a Manual Micropipette Using a General-Purpose Robotic Hand** Si-Hwan Heo[1], Joseph Shin[1], Hyesung Lee[1,2], Donghyun Hwang[1], Yong Seok Ihn[1], KangGeon Kim[1], and Sungwook Yang[1] ([1]Korea Institute of Science and Technology, [2]Korea Advanced Institute of Science and Technology)

Oral Presentation

- Session Chair: Dr. Minha Lee (KITECH), Dr. Sangkyu Han (KITECH)
- Time: 14:00-18:00
- Place: Room 306

	14:00-14:20	**Welcome Remarks and Introduction to the Technology Convergence Division** Chong-Yun Kang (NRF)
Oral [SST1]	14:20-14:40	**[SST1_O_1]** **Toward Predictive Understanding of CO_2 Mineralization in Basaltic Systems** Peter K. Kang (University of Minnesota)
	14:40-15:00	**[SST1_O_2]** **A Versatile DNA-Based Nanoplatform for Rapid Personalized Cancer Immunotherapy via In Situ Antigen Capture** William M. Shih[1,2] and Ju Hee Ryu[3,4] ([1]Dana-Farber Cancer Institute, [2]Harvard University, [3]Korea Institute of Science and Technology, [4]KU-KIST)
	15:00-15:20	**[SST1_O_3]** **Agent AI for Solving Global Steam Challenges: A Neuroecological Approach to Population Decline** Jee Hyun Choi[1], Jawook Koo[2], Hye-Jin Park[3], Demian Battaglia[4], and Robert Froemke[5] ([1]Korea Institute of Science and Technology, [2]Korea Brain Research Institute, [3]Inha University, [4]Strasbourg, [5]New York University)
	15:40-16:20	**Commemorative Photo & Break Time**
Oral [SST2]	16:20-16:40	**[SST2_O_5]** **Roles and Activities of the Global Convergence Research Cooperation Support Center (GCRC) in International Joint Research Projects** Hyeunseok Choi (Korea Institute of Industrial Technology)
	16:40-17:00	**[SST2_O_6]** **An Ultralight and Multifunctional Metasurface-Based Platform for High-Resolution Bioimaging and Ultrasensitive Diagnostics** Junsuk Rho (Pohang University of Science and Technology)
	17:00-17:20	**[SST2_O_7]** **Toward Harmonic-Space: A Seamless Network-Map-Navigation Convergence Framework for Large-Scale Heterogeneous Robot Operations** Sung-Chan Choi[1], Sungwook Jung[1], Chungjae Choe[1], Maurice Fallon[2], Luca Carlone[3], Ayoung Kim[4], and Chang-Joo Nam[5] ([1]Korea Electronics Technology Institute, [2]University of Oxford, [3]Massachusetts Institute of Technology, [4]Seoul National University, [5]Sogang University)
	17:20-17:40	**[SST2_O_8]** **Learning Energy Efficient Whole-Body Motion of Humanoid Robots** Yisoo Lee[1], Kyungseo Park[2], Seungbum Koo[3], and Youngwoon Lee[4] ([1]Korea Institute of Science and Technology, [2]Daegu Gyeongbuk Institute of Science and Technology, [3]Korea Advanced Institute of Science and Technology, [4]Yonsei University)
	17:40-18:00	**Strategies for Dissemination of International Collaborative Research Outcomes & Measures for International Collaborative Research in Compliance with Research Data Regulations** Inhaeng Lee (Yulmin IP Law Firm)
	18:00-18:30	**Time for Networking and Discussion**