IEEE VTS APWCS 2026

2026 IEEE VTS Asia Pacific Wireless Communications Symposium

Aug. 12 (Wed.) ~ 14 (Fri.), 2026 | Soongsil University, Seoul, Korea

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2026 IEEE VTS Asia Pacific Wireless Communications Symposium (APWCS 2026)

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Welcome to APWCS 2026

It is our great pleasure to welcome you to the 2026 IEEE VTS Asia Pacific Wireless Communications Symposium (APWCS 2026), held from August 12 to 14, 2026, at Soongsil University in Seoul, Korea.

APWCS is an international symposium in the field of Information and Communications Technology (ICT), jointly organized by the IEEE Vehicular Technology Society (VTS) Seoul, Tokyo/Japan, Taipei, and Singapore Chapters. The symposium provides a premier forum for researchers, engineers, and industry professionals to present their latest research results, exchange innovative ideas, and foster collaborations in wireless communications and related technologies.

APWCS 2026 features four distinguished keynote speeches by internationally renowned experts, together with more than 100 technical paper presentations covering a wide range of topics, including 5G/6G communications, AI and machine learning for communications, integrated sensing and communications (ISAC), satellite and UAV communications, IoT, wireless signal processing, and intelligent transportation systems.

Beyond the technical program, APWCS 2026 offers an excellent opportunity to strengthen existing collaborations and establish new ones while enjoying the vibrant city of Seoul, where rich cultural heritage blends seamlessly with cutting-edge technology and modern urban life.

We sincerely thank all authors, keynote speakers, reviewers, sponsors, volunteers, and participants for making APWCS 2026 possible. We hope you enjoy a productive and memorable symposium, and we look forward to meeting you in Seoul.

General Chair
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(Soongsil University, Korea)

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Time	Room 050115	Room 050112	Room 050116
Day 1 (Wednesday, August 12, 2026)			
12:30~17:00	Registration		
13:30~13:35	Opening and Welcome Speech		
13:35~14:20	**Keynote Speech 1 :** AI-Native 6G: Towards Agentic Network Intelligence with Embodied AI KyungHi Chang (Professor of Inha University, Korea; Chairman of Executive Committee, 6G Forum, Korea)		
14:20~14:35	Coffee Break		
14:35~16:05	Technical Session A1	Technical Session A2	Technical Session A3
16:05~16:20	Coffee Break		
16:20~17:50	Technical Session B1	Technical Session B2	Technical Session B3
18:30~19:30	Welcome Reception @ Hyungnam Hall Operations Room, 2F		
Day 2 (Thursday, August 13, 2026)			
09:30~17:00	Registration		
10:00~10:45	**Keynote Speech 2 :** Using Pinching Antennas to Shape Next-Generation Network Architecture Zhiguo Ding (Professor of Nanyang Technological University, Singapore)		
10:45~11:30	**Keynote Speech 3 :** Enable Personalized, Intelligent and Sustainable Mobile Service with Pervasive Coverage I-Kang Fu (Senior Director of Technology, MediaTek, Taiwan)		
11:30~13:00	Lunch Break		
13:00~14:30	Technical Session C1	Technical Session C2	Technical Session C3
14:30~14:45	Coffee Break		
14:45~16:15	Technical Session D1	Technical Session D2	Technical Session D3
16:15~16:30	Coffee Break		
16:30~18:00	Technical Session E1	Technical Session E2	Technical Session E3
18:30~20:30	Banquet @ Hyungnam Hall, 2F		
Day 3 (Friday, August 14, 2026)			
09:30~12:00	Registration		
10:00~10:50	**Keynote Speech 4 :** 6G Values and Technologies Takehiro Nakamura (Chief Standardization Officer of NTT DOCOMO, Inc., Japan)		
10:50~11:05	Break		
11:05~12:35	Technical Session F1	Technical Session F2	Technical Session F3

Day1, 12th Aug. Wednesday, 13:35~14:20

Room 050115

Chair: Oh-Soon Shin (Soongsil University, Korea)

Keynote Speech 1: AI-Native 6G: Towards Agentic Network Intelligence with Embodied AI

Prof. Kyunghi Chang

Professor of Inha University, Korea; Chairman of Executive Committee, 6G Forum, Korea

Abstract:

The evolution toward 6G is transforming traditional communication systems into intelligent, autonomous, and AI-native network ecosystems. Through the convergence of AI-native networking, agentic intelligence, embodied AI, and distributed sensing and computing, 6G will enable autonomous operation, intelligent resource management, advanced robotics, and proactive network optimization.

6G Vision and National Initiatives

- Government-led 6G development programs focusing on AI-native networking advanced wireless technologies, global standardization efforts, and next-generation communication infrastructure development.

AI-Native Network Evolution

- Transition toward intelligent network architectures embedding AI across RAN, Core, edge, and service layers for autonomous operation, predictive analytics, and zero-touch network management.

Agentic AI for Network Autonomy

- Evolution from AI-assisted automation toward collaborative, goal-driven intelligent agents capable of reasoning, planning, coordination, resource optimization, and autonomous network orchestration.

6G Embodied AI Networks

- Integration of communication, computing, sensing, and intelligence to support autonomous physical systems, collaborative robotics, industrial automation, intelligent mobility, and real-world AI applications.

Biography

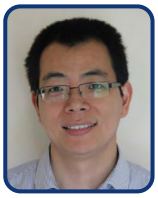
KYUNGHI CHANG received the B.S. and M.S. degrees in electronics engineering from Yonsei University, Seoul, Korea, in 1985 and 1987, respectively, and the Ph.D. degree in electrical engineering from Texas A&M University, College Station, TX, USA, in 1992. From 1989 to 1990, he was with the Samsung Advanced Institute of Technology (SAIT) as a member of the research staff. From 1992 to 2003, he was with the Electronics and Telecommunications Research Institute (ETRI) as a Principal Member of the technical staff & Team Leader. He is currently with the School of Electrical and Electronic Engineering, Inha University.

He was a recipient of the Haedong Academic Awards, in 2010, MSIT Minister's Commendation and KICS Fellow in 2020, and Presidential Commendation in 2021. He is currently a Chairman of 6G Forum, Executive Committee, and Chairman of Technology Committee for National Integrated Public Network. He has served as a Vice President at the KICS from 2017 till 2023.

Day2, 13th Aug. Thursday, 10:00~10:45

Room 050115

Chair: Joongheon Kim (Korea University, Korea)



Keynote Speech 2: Using Pinching Antennas to Shape Next-Generation Network Architecture

Prof. Zhiguo Ding
Professor of Nanyang Technological University, Singapore

Abstract:

Due to the explosive growth in the number of wireless devices and diverse wireless services, next-generation wireless networks face unprecedented challenges caused by heterogeneous data traffic, massive connectivity, ultra-high bandwidth efficiency and ultra-low latency requirements. To address these challenges, flexible-antenna systems have been recognized as key enabling technologies of the sixth-generation (6G) wireless networks, as they can intelligently reconfigure users' effective channel gains and hence significantly enhance their data transmission capabilities. However, the existing flexible-antenna systems have been developed to combat small-scale fading in non-line-of-sight (NLoS) conditions. As a result, they are lack of the capability to reconstruct strong line-of-sight (LoS) links which are typically 100 times stronger than NLoS links. Furthermore, the existing flexible-antenna systems exhibit restricted flexibility, where adding/removing an antenna is not straightforward. This talk focuses on an innovative flexible-antenna system, termed generalised pinching-antenna systems, and how such a new physical technology can reshape the future network architecture. The principles of generalized pinching-antenna systems are described first together with specific examples of generalized pinching-antenna systems, including Docomo's dielectric waveguide based pinching antennas, leaky coaxial cable (LCX), etc. In addition, promising 6G related applications of generalized pinching antennas, including environment division multiple access (EDMA), integrated sensing and communication, multi-cell interference management, etc, are also illustrated. Finally, important directions for future research, such as antenna/waveguide deployment, channel estimation, etc, are highlighted.

Biography

Zhiguo Ding is currently a Professor in Communications at Nanyang Technological University and an Academic Visitor at Princeton University. His research interests are 6G networks, communications and signal processing. His h-index is over 100 and his work receives 70,000+ Google citations. He is serving as the EiC of IEEE JSAC, an Area Editor for the IEEE TWC and OJSP, an Editor for IEEE TVT, and OJ-SP, and was an Area Editor for IEEE TCOM and OJCOMS, an Editor for IEEE TCOM, TWC, COMST, WCL, CL and WCMC. He received the best paper award of IET ICWMC-2009 and IEEE WCSP-2014, the EU Marie Curie Fellowship 2012-2014, the Top IEEE TVT Editor 2017, IEEE Heinrich Hertz Award 2018, IEEE Jack Neubauer Memorial Award 2018, IEEE Best Signal Processing Letter Award 2018, Alexander von Humboldt Foundation Friedrich Wilhelm Bessel Research Award 2020, IEEE SPCC Technical Recognition Award 2021, IEEE VTS Best Magazine Paper Award 2023, and the Best Paper Award in IEEE GLOBCOM 2024. He is a Web of Science Highly Cited Researcher in two disciplines (2019-2025), and a Fellow of the IEEE.

Day2, 13th Aug. Thursday, 10:45~11:30

Room 050115

Chair: Joongheon Kim (Korea University, Korea)

Keynote Speech 3: Enable Personalized, Intelligent and Sustainable Mobile Service with Pervasive Coverage

Dr. I-Kang Fu
Senior Director of Technology, MediaTek

Abstract:
MediaTek believes 6G is not simply about higher data rate but aims to create new business values to mobile industry. This presentation will introduce the latest research and experiment observations by MediaTek on how 6G infrastructure could help mobile operators to natively deliver AI services, well integrate with non-terrestrial network (NTN) while operate the network in more sustainable manner.

Biography
Dr. I-Kang Fu is the Senior Director of Technology in MediaTek Advanced Communication Technology Division. He leads the R&D teams for research, prototype, and standardization projects of next-generation mobile communication technologies. He also contributes to new technology strategy, partnership and product planning.
He has spearheaded MediaTek research and development efforts in NTN satellite communication technology, leading the projects from concept to PoC prototype, and system engineering for commercial evaluation. This work culminated to MediaTek's leadership and contributions to 3GPP Release-17/18/19/20 standardization of NTN technology, where MediaTek also demonstrated several world's 1st NTN field experiment success over in-orbit GEO and LEO constellations with partners.
Dr. Fu's expertise spans wireless technologies such as 4G WiMAX, 4G LTE, and 5G NR. He is currently contributing MediaTek's commitment to 6G technology research, prototype and standardization, with commercialization expected in the 2030s.
Dr. Fu joined MediaTek in 2008 after earning his doctorate from National Chiao-Tung University, Taiwan. He has served as Chairman position of TAICS (Taiwan Association of Information and Communication Standards) Advanced Mobile Communication Technical Committee since 2018. He received MediaTek Innovation Award in 2023. He also represents MediaTek to receive Nation Industrial Innovation Award in 2025.

Day3, 14th Aug. Friday, 10:00~10:50

Room 050115

Chair: Oh-Soon Shin (Soongsil University, Korea)

Keynote Speech 4: 6G Values and Technologies

Mr. Takehiro Nakamura

Chief Standardization Officer of NTT DOCOMO, Inc., Japan

Abstract:
Research on technologies and services for 6G is accelerating worldwide. From 2025, 6G standardization activities have been started in 3GPP. NTT DOCOMO is actively engaged in the study and development of technologies for 6G, including RIS, NTN, sub-Tera Hz, AI-native networks, and ISAC. This presentation will explain our vision and the latest technical activities for 6G.

Biography
Mr. Takehiro Nakamura joined NTT Laboratories in 1990 and currently serves as Chief Standardization Officer at NTT DOCOMO, Inc. With extensive experience in R&D and standardization, he has played a pivotal role in advancing radio and network technologies—including W-CDMA, HSPA, LTE/LTE-Advanced, 5G, and 6G—while fostering inter-industry collaboration.
Since 1997, Mr. Nakamura has actively contributed to standardization activities in ARIB, ITU, and 3GPP, serving as Vice Chair and Chair of 3GPP TSG-RAN from 2005 to 2013. He has been instrumental in promoting and accelerating 5G and 6G both in Japan and globally, as a leading member of the 5G Mobile Promotion Forum, Beyond 5G Promotion Consortium, and ITS Info-communications Forum in Japan.
Currently, he leads several projects on Local 5G, millimeter-wave, and 6G within the XG Mobile Promotion Forum (XGMF). He also serves as a board member of 5G-ACIA and as a sub-leader of the Human Augmentation Consortium.

Day 1 (Wednesday, August 12, 2026)

A1: Satellite & Optical Communications
14:35-16:05, Room 050115

Session Chair: Hyung-Chai Park (Korea University, Korea)

[A1-1] Aol-Aware Beam Count Optimization in Beam-Hopping LEO Multibeam Satellite Networks
Asfar Ahmad, Haejoon Jung, Kyung Hee University

[A1-2] Residual Serving Time-Based Conditional Handover for Moving Beam LEO Non-Terrestrial Networks
Habeen Oh, University of Ajou; Jongtae Lee, Jae-Hyun Kim, Ajou University

[A1-3] RF/FSO Switching Method for LEO-HAPS Downlink Using Deep Reinforcement Learning
Hyungsun Yu, Jihoon Lee, Jae Yeol Lee, Taehan Moon, Jae-Hyun Kim, Ajou University

[A1-4] Design and Evaluation of Adaptive Handover Algorithm Based on Non-Line-of-Sight Detection for Low-Earth Orbit Satellite-Vehicle Communications
Takashi Ina, Nagoya Institute of Technology; Jing Ma, Toyota Motor Corporation Otemachi Office; Eiji Okamoto, Nagoya Institute of Technology

[A1-5] Energy Efficiency Optimization for HAP-to-UAV FSO Systems with Energy Harvesting
Binh-Minh Vu, Xuan-Toan Dang, Soongsil University; Dang The Ngoc, Posts & Telecommunications Institute of Technology; Oh-Soon Shin, Soongsil University

[A1-6] Feasibility Analysis of Sewer Pipe Inspection Systems Using Optical Wireless Communication
Yuki Yoneyama, Susumu Ishihara, Shizuoka University; Thanh V. Pham, Shizuoka Univeristy

A2: UAV Communications & Mobility Management
14:35-16:05, Room 050112

Session Chair: Jong-Ho Lee (Soongsil University, Korea)

[A2-1] Multi-agent DRL Based Multi-UAV Trajectory Optimization for Energy Efficiency Improvement
Joon-Soo Eom, Oh-Soon Shin, Soongsil University

[A2-2] Quantum DRL-Based UAV Placement with Optical Sensing-Enabled Hybrid FSO/RF Backhaul Design
Hung Le, Hoang D. Le, The University of Aizu; Duy-Tuan Dao, The University of Danang-University of Science and Technology; Anh T. Pham, University of Aizu

[A2-3] Sensing-Assisted Turbulence-Induced Secret Key Distribution for FSO-based UAV Systems
Luan V. Doan, The University of Aizu; Hoang D. Le, Anh T. Pham, University of Aizu

[A2-4] Enhancing Maritime Communication Connectivity Using MPTCP-Based Link Aggregation
Vignesh Nagamuthu, Singapore Institute of Technology; Neelakantam Venkatarayalu,, SIT - Singapore; Nalam Venkata Abhishek, Singapore Institute of Technology, Singapore; Redi Ramli, Singapore Institute of Technology

[A2-5] Weighted Multi-ID Allocation for Quality-of-Service Provisioning in 10BASE-T1S PLCA-Based In-Vehicle Networks
Minsu Kim, Yeonho Kang, Sehwa Jung, Daegu Gyeongbuk Institute of Science and Technology; Hanyoung Park, DGIST

[A2-6] CCTV-Based Passenger Tracking and Arrival Time Prediction for Subway Door Safety
YANJING JIN, Sungkyunkwan University; heejae kim, Sungkyunkwan University; Hee Jo, Sungkyunkwan University; Jo Woon Chong, Sungkyunkwan University

A3: Invited Paper Session (1)
14:35-16:05, Room 050116

Session Chair: Kyoung-Jae Lee (Chung-Ang University, Korea)

[A3-1] RSMA-Enabled SWIPT Systems for RIS-Assisted Full-Duplex MIMO Networks
Reynah Akwafo, Samuel Kwamena Menanor, Hanbat National University; Derek Kwaku Pobi Asiedu, IMT-Atlantique; Samir Saoudi, IMT Atlantique Bretagne-Pays de la Loire; Gosan Noh, Kyoung-Jae Lee, Hanbat National University

[A3-2] Low-Probability-of-Detection Downlink Transmission in Time Division Multiple Access
Md Gulam Ishak, Md Sakil Hasan, Jihwan Moon, Hanbat National University

[A3-3] Low-Probability-of-Detection Transmission With Power-Domain Binary Embedding
Shallom Ezekiel, Refat Khan, Jihwan Moon, Hanbat National University

[A3-4] SIM-Aided Cell-Free Massive MIMO Systems With Rate-Splitting Multiple Access
Jonathan Obeng Agyapong, Woode Theodore, Hanbat National University; Yangho park, Anokye Lois Oforiwaa, Chung-Ang University; Prince Anokye, IMT-Atlantique; Kyoung-Jae Lee, Chung-Ang University

[A3-5] Impact of Low-Resolution ADCs on SIM-Aided Cell-Free Massive MIMO Under Fronthaul Constraints
Yangho park, Chung-Ang University; Jonathan Obeng Agyapong, Hanbat National University; Kyoung-Jae Lee, Chung-Ang University

B1: Advanced Coding & Quantum Communications

16:20-17:50, Room 050115

Session Chair: Hyung-Chai Park (Korea University, Korea)

[B1-1] Node Targeted Memory Strengths for RelayBP Decoding of Bivariate Bicycle Codes
Hong Jun Kim, Korea University; Jun Heo, Korea university

[B1-2] Optimization and Performance Analysis of 16-APSKconstellations for discrete modulation CV-QKD
Kim seonguk, Jun Heo, Korea university

[B1-3] Multipartite FSO/QKD with N-GHZ States for Scalable Secure Group Key Distribution
Yuma Kaminaga, Hoang D. Le, University of Aizu; Cuong T. Nguyen, The University of Aizu; Anh T. Pham, University of Aizu

[B1-4] SPLITLOSS AND DEGENERACY ANALYSIS FOR QLDPC DECODING
Minjoo Kim, Korea University; Jun Heo, Korea university

[B1-5] Deep Joint Source-Channel Coding for Image Transmission in Hardware-Impaired OFDM Systems
Pei-Jung Chen, Po-Hung Cheng, Chia-Han Lee, National Yang Ming Chiao Tung University

[B1-6] Blind Recognition of Puncturing Patterns in Convolutional Codes with Experimental Validation
Pranshu Singh, Indian Institute of Technology Indore; Swaminathan R, Indian Institute of Technology Indore, India

B2: Wireless Power Transfer & SWIPT

16:20-17:50, Room 050112

Session Chair: Eun-Chan Park (Dongguk University, Korea)

[B2-1] Adaptive WPT Beam Time Allocation via Queue-Length Feedback for Indoor SWIPT Systems
Ryosuke Matsuo, The University of Electro-Communications; Koichi Adachi, Keio University

[B2-2] On the PAPR-Controlled Harvested-Power Crossover in Broadcast Wireless Power Transfer
Junghoon Kim, Jeonghyeon Park, Korea Maritime & Ocean University

[B2-3] Coordinated Uplink and Downlink Optimization for SWIPT-Enabled Cell-Free IIoT Systems
Chi-Han Lee, Department of Electronic Engineering, National Ilan University; Yi-Xian Chen, Yu Liu, Po-Yi Chen, Wei-Ting Lin, National Ilan University

[B2-4] 3D AAV-DTN Communications: A Wind-Aware Approach with Dynamic Cooperative WPT
Hao-Che Yen, Nien-Tzu Hsieh, National Central University; Sheng-Zhi Huang, Tamkang University, Taiwan; Mohd Yaseen Mir, North Campus, University of Kashmir; Chih-Lin Hu, National Central University

[B2-5] Numerical Assessment of Quiet-Zone Formation in a Phantom-Free BAN-OTA Fading Emulator Using Vivaldi Scatterer Antennas
Yuhei Oda, Kun Li, The University of Electro-Communications; Kazuhiro Honda, University of Toyama

[B2-6] EMF Compliance Boundary Assessment Based on Near-Field Power Density for Airy Beam Antennas
Shoki Enomoto, Kun Li, The University of Electro-Communications

B3: Invited Paper Session (2)

16:20-17:50, Room 050116

Session Chair: Kyoung-Jae Lee (Chung-Ang University, Korea)

[B3-1] Energy Efficiency Maximization for RIS-Aided Symbiotic Networks Under Channel Aging
Samuel Kwamena Menanor, Reynah Akwafo, Hanbat National University; Derek Kwaku Pobi Asiedu, IMT-Atlantique; Gosan Noh, Hanbat National University; Kyoung-Jae Lee, Chung-Ang University

[B3-2] Transformer-Based Sensing Power Allocation for OFDM ISAC Systems
Charty Joseph Gyano, Evans Tetteh Owusu, Clement Heanampong, Woode Theodore, Hanbat National University; Kyoung-Jae Lee, Chung-Ang University; Gosan Noh, Hanbat National University

[B3-3] BSB-Enabled Routing for Deep Space DTNs: Congestion Awareness in Bandwidth-Limited Environments
Evans Tetteh Owusu, Jonathan Obeng Agyapong, Woode Theodore, Clement Heanampong, Hanbat National University; Kyoung-Jae Lee, Chung-Ang University; Taehoon Kim, Eunkyung Kim, Gosan Noh, Hanbat National University

[B3-4] Joint Precoding And Power Optimization for Full-Duplex Cell-Free MIMO ISAC System
Woode Theodore, Hanbat National University; Prince Anokye, IMT Atlantique; Jonathan Obeng Agyapong, Gosan Noh, Hanbat National University; Mustapha Benjillali, INPT; Samir Saoudi, IMT Atlantique Bretagne-Pays de la Loire; Kyoung-Jae Lee, Chung-Ang University

Day 2 (Thursday, August 13, 2026)

C1: AI/ML for Wireless Communications
13:00-14:30, Room 050115

Session Chair: Joongheon Kim (Korea University, Korea)

[C1-1] Consistency-based Test-Time Adaptation for Deep Learning-based Parametric Channel Estimation
Wonseok Shin, Hyeongjun Kim, Byonhyo Shim, Seoul National University

[C1-2] Unified Deep Learning Framework for Joint Recognition of Modulation and FEC Encoding
Ashish Tandi, Aryan Jaiswal, Indian Institute of Technology Indore; Nayim Ahamed, Indian Institutes of Technology Indore; Swaminathan R, Indian Institute of Technology Indore, India

[C1-3] Deep Joint Source-Channel Coding using Advanced Convolutional Neural Networks
Po-Hsiang Huang, Jui-Chun Roy Su, Chia-Han Lee, National Yang Ming Chiao Tung University

[C1-4] Coalitional Game-Based Clustered Federated Learning for Mitigating Data Heterogeneity in Wireless Networks
YU-Wei Chan, National Taichung University of Science and Technology; Jhih-Yu Tsai, National Yang Ming Chiao Tung University, Taiwan; Feng-Tsun Chien, National Yang Ming Chiao Tung University; Dongyeon Kim, Dongguk University, South Korea

[C1-5] NPP-ITA: Normal-Prototype Prior for Unsupervised Video Anomaly Detection with Inference-Time Adaptation
Nayoung Kim, Minjeong Kim, Seonghoon Jeong, Sookmyung Women's University

C2: Open RAN & Network Intelligence
13:00-14:30, Room 050112

Session Chair: Eun-Chan Park (Dongguk University, Korea

[C2-1] Large Wireless Models: A Survey of Foundation Models for 6G Communications and Sensing
Jiseok Youn, Saewoong Bahk, Seoul National University

[C2-2] Resource Pooling Optimization for O-Cloud with Online Learning
Juhee Shin, Kyung Hee University; Hyun-Min Yoo, KyungHee University; Een-Kee Hong, Kyung Hee University

[C2-3] AI/ML-Based TRP Selection Method for System Throughput Maximization in Multi-UE Environments Using a 6G Simulator
Yuta Hayashi, Hiromasa Terashi, NTT DOCOMO, INC.; Dan Mohri, NTT DOCOMO, Inc.; Satoshi Suyama, Yuyuan CHANG, NTT DOCOMO, INC.; Huiling Jiang, NTT DOCOMO, INC

[C2-4] Behavioural Synthetic Traffic Generation for 5G and 6G Network Validation: A Hybrid GAN-VAE Framework Extended by a Behavioural Codebook Hybrid
Dr Faris Muhammad, VIAVI Solutions

[C2-5] Doppler-Induced Orthogonality Loss in Semantic-ISAC: Provable Gap Digital-Twin Validation and the Missing O-RAN Observable
Azharul Islam, Abdulahi Abiodun Badrudeen, Mohsin Ali, Sunwoo Kim, Hanyang University

[C2-6] Radio Coverage Quality Analytics Using Multi-Band 5G NR Drive Test Measurements
Vignesh Nagamuthu, Hu Jiexing, Singapore Institute of Technology; Neelakantam Venkatarayalu,, SIT - Singapore

C3: Japanese Special Session
13:00-14:30, Room 050116

Session Chair: Koichi Adachi (Keio University, Japan)

[C3-1] Network Energy Saving Technologies in 3GPP Standards Towards 6G
Takeo Ohseki, Shunsuke Kamiwatari, Issei Kanno, KDDI Research, Inc.

[C3-2] CFO Estimation for Subchirp-Mapping Orthogonal Chirp Division Multiplexing in 6G Wireless Communications
YifeiWang, Yutaka Jitsumatsu, Kyushu University

[C3-3] Ray-Tracing-Based Feature-Aware Bayesian Optimization for Joint Base Station Selection and Configuration
Koki Kanzaki, Koya Sato, The University of Electro-Communications

[C3-4] MIMO Throughput Enhancement by NRNT and its Evaluation in Digital Twin Simulator
Dan Mohri, NTT DOCOMO, Inc.; Yuyuan CHANG, Satoshi Suyama, NTT DOCOMO, INC.; Huiling Jiang, NTT DOCOMO, INC

[C3-5] A flight path determination method considering battery constraints for building a communication platform using delivery UAVs
Hayato Soya, Suwa University of Science; Hideya So, Kogakuin University

D1: Advanced Wi-Fi & WLAN Sensing

14:45-16:15, Room 050115

Session Chair: Joongheon Kim (Korea University, Korea)

[D1-1] An Automated and Optimized Framework for 6 GHz Wi-Fi AFC Compliance Verification
Yong-Xiang Zhan, National Yang Ming Chiao Tung University; CHIN-YA HUANG, National Taiwan University of Science and Technology; Chien-Chao Tseng, National Yang Ming Chiao Tung University; Zheng-Han Wu, Jie-Long Lin, Jia-Ru Li, Yu-Ming Chen, Telecom Technology Center, Taiwan

[D1-2] Dynamic State-Aware Channel Selection for IEEE 802.11bn Non-Primary Channel Access
Tzu-Han Lin, Wen-di Shen, Hung-Yu Wei, National Taiwan University

[D1-3] Fundamental Evaluation of IEEE 802.11az Wi-Fi RTT-based Ranging and Positioning
Haruki Naiki, Kentaro Kobayashi, Meijo University

[D1-4] Wi-Fi CSI-Based Relative AoA Trajectory Estimation for Non-Wearable Walking Observation
Song-Yung Lin, National Cheng Kung University; CHI-LUN, LIN, Medical Device Innovation Center at National Cheng Kung University

[D1-5] Geometry-Based Reliability Mapping for Device Placement Analysis in Multi-Link Wi-Fi CSI Gait Quantification
Cheok U Chan, National Cheng Kung University; CHI-LUN, LIN, Medical Device Innovation Center at National Cheng Kung University

[D1-6] Quantifiable Walking Detection Using Wi-Fi CSI for Home-Based Gait Monitoring
YI-HAO, HUANG, Mechanical Engineering at National Cheng Kung University; CHI-LUN, LIN, Medical Device Innovation Center at National Cheng Kung University

D2: Reconfigurable Intelligent Surfaces (RIS)

14:45-16:15, Room 050112

Session Chair: Young In Jang (Korea University, Korea)

[D2-1] Decision-Feedback Channel Estimation for RIS-Assisted Communications
Rih-Chun Yang, Jian-Jia Weng, National Chung Cheng University

[D2-2] Multi-Agent DRL for QoS-Constrained Active RIS-MA ISAC
Seungseok Sin, Jaehyeok Kim, Insik Cho, Taehong Kim, Chonnam National University; Huaping Liu, Oregon State University; Sangmi Moon, Kunsan National University; Intae Hwang, Chonnam National University

[D2-3] Performance Analysis of Multiple Active RIS-Aided Systems With Imperfect Phase Shifts
Khac-Tuan Nguyen, University of Ulsan; Sunghwan Kim, Sejong University

[D2-4] Fluid Reconfigurable Intelligent Surface Assisted Covert Communication
Ryotaro Ishihara, Shun Kojima, Chiba University

[D2-5] Efficient Numerical Modeling of Near-Field Diffraction in ORIS-Assisted Free-Space Optical Links
Hoang Anh Tuan, Shizuoka University; Phuc Trinh, University of Tokyo; Shinya Sugiura, The University of Tokyo; Chuyen T. Nguyen, Hanoi University of Science and Technology; Susumu Ishihara, Shizuoka University; Thanh V. Pham, Shizuoka Univeristy

[D2-6] Achievable Rate Maximization for SIM-Assisted SEFDM Systems
Haruki Inoue, Shun Kojima, Chiba University

D3: AI-Enabled Communications and Networking

14:45-16:15, Room 050116

Session Chair: Xinyu Piao (Korea University, Korea)

[D3-1] Deep Learning-Driven Edge Intelligence for Network Optimization of Data Flows in O-RAN
Po-Kai Wang, Chih-Lin Hu, National Central University, Taiwan

[D3-2] Computation Efficient Beam Management via Early-Exit Large Multimodal Models
Jun Hong Lee, Sunghoon Kim, Hokyung Kim, Byonhyo Shim, Seoul National University

[D3-3] Large Multimodal Model-Based Task-Oriented Communications for Autonomous Robot Agents
Jiseob Kim, Donghoon Kim, Jihoon Moon, Byonhyo Shim, Seoul National University

[D3-4] Intermediate-Step Conditional Diffusion Reconstruction for VAE-Based Semantic Communication
Naoki Omi, Shun Kojima, Chiba University

[D3-5] Interference Detection for Mobile Monitoring Utilizing Mobility-Robust Radio Features
Soi Yamaguchi, Toshiki Takeuchi, Jun Sakai, NEC Corporation

[D3-6] Grad-CAM-Assisted Adaptive Scheme for Uplink Traffic Reduction in Plant Health Screening Services
Jiun-Yu Tu, Chi-Yuan Yeh, National Formosa University; Chih-Lin Hu, National Central University, Taiwan

E1: Advanced Multiple Access

16:30-18:00, Room 050115

Session Chair: Intae Hwang (Chonnam National University, Korea)

[E1-1] Comparisons for Uplink PD-NOMA, GDMA and HDS-CDMA Systems
Jui-Fan Hung, Mao-Chao Lin, National Taiwan University; Shih-Kai Lee, Yuan Ze University

[E1-2] Average Throughput Improvements by Using NOMA in CRE-Based Heterogeneous Networks
Asahi Yoshikawa, Graduate School of Engineering, Kogakuin University; Takatoshi Sugiyama, Kogakuin University

[E1-3] Relay Placement Optimization in In-Band Full-Duplex Relay Systems for 6G Industrial Automation
Nann Win Moe Thet, National Institute Of Information And Communications Technology; Kenichi Takizawa, nict

[E1-4] A New User-Centric Grouping Scheme for Relay Terminals in the Millimeter-Wave Band
Harun Kageyama, Takeshi Onizawa, Tokyo University of Science; Kentaro Tanaka, Takashi Izumi, NTT Access Network Service Systems Laboratories; Takafumi Fujita, Nippon Telegraph and Telephone Corporation

[E1-5] Optimization of Feasible Discrete Positions for Circular-Track 6DMA Systems
Jaehyeok Kim, Seungseok Sin, Insik Cho, Taehong Kim, Chonnam National University; Huaping Liu, Oregon State University; Sangmi Moon, Kunsan National University; Intae Hwang, Chonnam National University

[E1-6] Overloaded MIMO Assisted Bi-Directional Communication Based on Physical Layer Network Coding With Resource Allocation
Satoshi Denno, Masato Hayamizu, Yafei Hou, Okayama University

E2: Intelligent Transportation Systems (ITS) & V2X

16:30-18:00, Room 050112

Session Chair: Jiun-Yu Tu (National Formosa University, Taiwan)

[E2-1] Delay-Energy Tradeoff in Actor-Critic-Based Relay Selection for Multi-Hop V2X-MEC Networks
Sheng-Zhi Huang, Tamkang University, Taiwan; Shiang-Ming Huang, Kun-Yu Lin, Tamkang University; Chih-Lin Hu, National Central University, Taiwan

[E2-2] LiDAR--Camera Calibration under Lossy V2X for RSU--Vehicle Cooperative Perception
Meixuan Bao, Tao Yu, Institute of Science Tokyo; Kui Wang, Kei Sakaguchi, Tokyo Institute of Technology

[E2-3] An IoT-Assisted Semantic Road Incident Warning Framework Using GNSS-Enabled Smart Cones
Jiun-Yu Tu, Chi-Yuan Yeh, National Formosa University; Min-Kuan Chang, National Chung Hsing University

[E2-4] A Digital Twin-Based Closed-Loop Deployment Framework for GNSS-Capable Smart Cones in Planned Traffic-Control Operations
Jiun-Yu Tu, Wen-Yi Chen, National Formosa University; Min-Kuan Chang, National Chung Hsing University

[E2-5] Communication-Efficient Parking Recommendation via Federated Learning with Knowledge Distillation in Internet of Vehicles
Kuan-Yi Ke, Chuan-Chi Lai, National Chung Cheng University

E3: IoT & Wireless Sensor Networks

16:30-18:00, Room 050116

Session Chair: Su Min Kim (Tech University Korea, Korea)

[E3-1] Out-of-Band Synchronization for Slotted LoRaWAN Using Periodic External Signals
Ibuki Kimpara, Keio University; Kenji Akasu, The University of Electro-Communications; Koichi Adachi, Keio University

[E3-2] An Energy-Efficient Clustering Algorithm for Satellite IoT Forest Monitoring Systems
Chan-Chih Yeh, Szu-Liang Wang, Tsung-Hua Tsai, Whai-En Chen, National Ilan University

[E3-3] Multi-Agent Warehouse Logistics over WiFi Direct Ad Hoc Networks
Chien-Cheng Wu, National Sun Yat-sen University

[E3-4] UAV Speed Control for Data Harvesting in IoT Sensor Networks
Hyejin Moon, Su Min Kim, Junsu Kim, Tech University of Korea

[E3-5] A Study on CBR-Based Adaptive Information Transfer for CSMA/CA-Based Coverage Control
Manato Washioka, Kentaro Kobayashi, Meijo University

[E3-6] Evaluation of Information Transfer Method and PID-Controlled Mobility in Coverage Control under Event-Triggered CSMA/CA Communication
Taiyo Hanamura, Kentaro Kobayashi, Meijo University

Day 3 (Friday, August 14, 2026)

F1: Advanced Wireless Systems and Applications
11:05-12:35, Room 050115

Session Chair: Eun-Chan Park (Dongguk University, Korea)

[F1-1] PRISM: Platform for Reflective Imaging using SDR-Based mmWave Compressed Sensing
Yun-Chen Lee, YunYun Su, Tsai-Ning Chang, Meng-Lin Ku, National Central University

[F1-2] An Implementation Method of Digital FIR Filter Using Quantum State Preparation Circuit
Chien-Cheng Tseng, National Kaohsiung University of Science and Technology; Su-Ling Lee, Chang-Jung Christian University

[F1-3] Constrained Codes over Degenerate-Base Alphabets via Compression of Adjacency Matrices
Dang Hai Dang, University of Ulsan; Sunghwan Kim, Sejong University

[F1-4] Physical Layer Secret Key Generation for FDD-OTFS Systems
AOBA MORIMOTO, Shun Kojima, Chiba University

[F1-5] A Study on Chromaticity Modulation Methods Based on Pixel-Level Color Difference in Display-to-Camera Communication
Kosuke Iwasaki, University of Meijo; Kentaro Kobayashi, Meijo University

[F1-6] Cross-Robot Evaluation of CNN Backbones for JetBot Lane Following in Low-Light Environments
Donggeon Lee, Myeongjun Kim, Hyoseok Jang, Jo Woon Chong, Sungkyunkwan University

F2: Korean Special Session
11:05-12:35, Room 050112

Session Chair: Jong-Ho Lee (Soongsil University, Korea)

[F2-1] Resource Allocation and AP Selection Optimization for Full-duplex CFMM Systems with ISAC
Xuan-Toan Dang, Oh-Soon Shin, Soongsil University

[F2-2] Resource-Efficient Group Handover for Disaggregated gNB-Based Non-Terrestrial Networks
JIMIN LEE, University of Ajou; Jongtae Lee, Jae-Hyun Kim, Ajou University

[F2-3] CNN-Based Multi-Mode Layered Transmission for Robust Speech Semantic Communication
Qi Gao, Jiaqi Li, Seung-Hoon Hwang, Dongguk University

[F2-4] Risk-Aware Multi-Level Energy-Saving Control for O-RAN-Based Next-Generation Mobile Networks
Jae-Bin Kwon, Kyung-Seop Lim, Hyun-Min Yoo, KyungHee University; Een-Kee Hong, Kyung Hee University

[F2-5] Feature-Enhanced RT-DETR for Small Object Detection in UAV Imagery
Won Miju, Soongsil University; Chushi Yu, University of Soongsil; Yoan Shin, Soongsil University

[F2-6] Transformer-Based Smartphone PDR for Multiple Carrying Modes
Jooan Kim, Yoan Shin, Soongsil University

F3: Invited Paper Session (3)
11:05-12:35, Room 050116

Session Chair: Hyung-Chai Park (Korea University, Korea)

[F3-1] PDW Machine Learning for Distributed Wireless Spectrum Intelligence A Survey and Federated Self-Supervised Roadmap
Hojun Kim, Emily Jimin Roh, Joongheon Kim, Korea University; Soohyun Park, Sookmyung Women's University

[F3-2] Battery Lifetime-Aware Satellite Activation via Branching Dueling DQN for LEO Satellite Constellations
Jiseok Jang, SOYI JUNG, Ajou University

[F3-3] Carbon-Aware Last-Mile Delivery: Joint Scheduling and 3D Trajectory Design for ISTN-Connected AAVs via Hierarchical MARL
Huiyeon Jang, SOYI JUNG, Ajou University

[F3-4] Backbone Architecture Design for Diffusion-Based UAV Trajectory Planning in Dynamic Wireless Environments
Minjoo Kim, Soohyun Park, Sookmyung Women's University

[F3-5] Pareto-Optimal QoS Routing in LEO Satellite Networks via Pointing-Error-Aware Link Metrics
Sungmin Hong, Sangmin Han, Seongjin Jeong, Wonjae Shin, Korea University

[F3-6] Quantum-Inspired Road Analysis and AoI-Aware Transmission for Intelligent V2I
Juhui Heo, Soohyun Park, Sookmyung Women's University

[F3-7] Q-SAGE: Calibrated LLM Reasoning over QCNN-Derived Scene Graphs for Safety-Aware Autonomous Mobility
Emily Jimin Roh, Hyojun Ahn, Joongheon Kim, Korea University; SOYI JUNG, Ajou University; Soohyun Park, Sookmhyung Women's University

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Introduction

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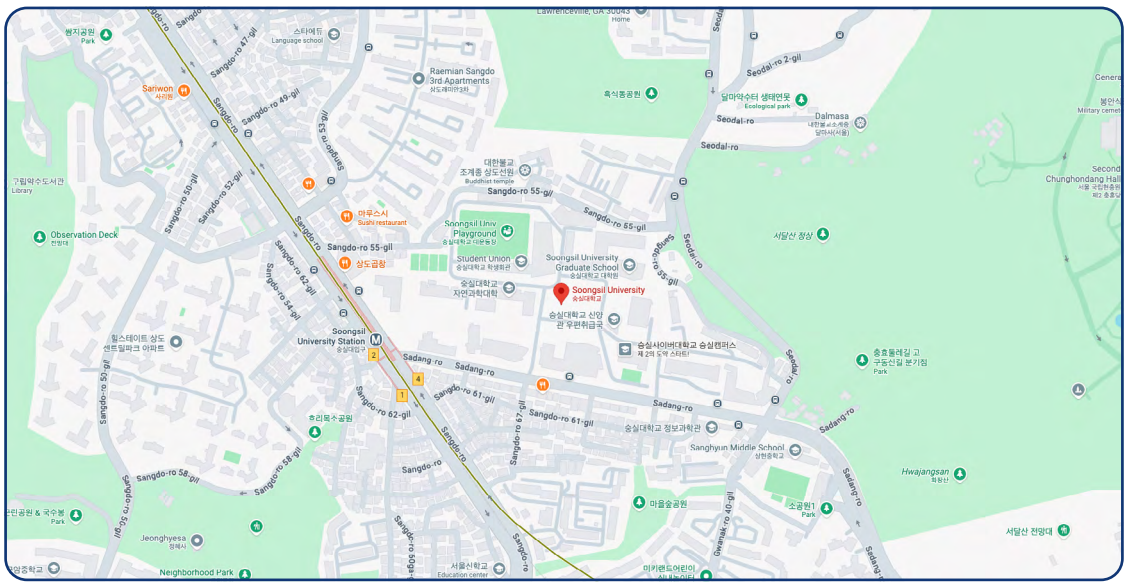
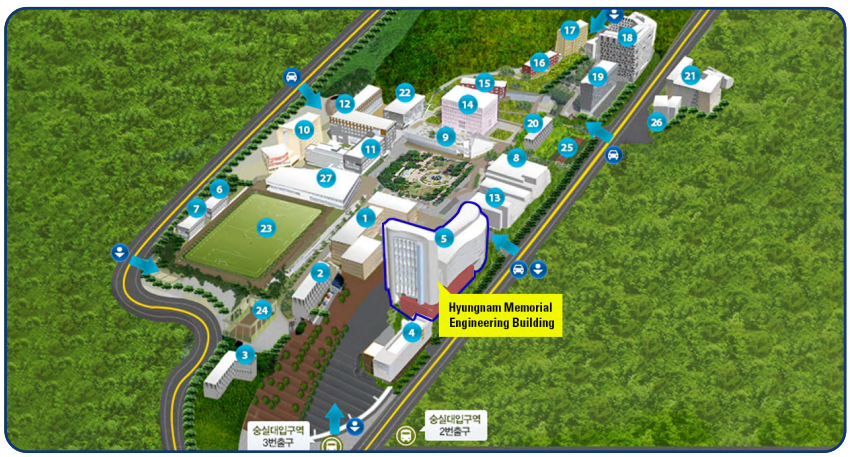
Map





Public Transportation Guide: From Airports (ICN / GMP) to Soongsil University Station

1. From Incheon International Airport (ICN) to Soongsil University Station

[Bus] Airport Limousine Bus #6019 (Direct & Recommended)

- Bus Route Number: 6019 (Incheon Airport ↔ Soongsil University ↔ Naebang Station)
- Boarding Locations:
  - ○ Terminal 1 (T1): 1st Floor, Stop 6B
  - ○ Terminal 2 (T2): B1 Transportation Center, Stop 32
- Drop-off Stop: Soongsil University Station Stop (In front of Exit 3)
- Estimated Travel Time: Approx. 1 hour 20 minutes to 1 hour 40 minutes (subject to traffic conditions)
- Fare: Adults 17,000 KRW / Children 12,000 KRW

[Subway] AREX & Subway Transfer Routes

- Recommended Route 1 (Express Line 9)
  - ○ Incheon Airport (AREX) → Magongnaru Station (Transfer to Line 9 Express) → Express Bus Terminal Station (Transfer to Line 7) → Arrive at Soongsil University Station
  - ○ Approx. 1 hr 25 min – 1 hr 35 min
- Recommended Route 2 (Seoul Station)
  - ○ Incheon Airport (AREX) → Seoul Station (Transfer to Line 4) → Chongshin Univ. / Isu Station (Transfer to Line 7) → Arrive at Soongsil University Station
  - ○ Approx. 1 hr 35 min – 1 hr 45 min

2. From Gimpo International Airport (GMP) to Soongsil University Station

[Subway] Line 9 Express & Line 7 Transfer (Fastest Option)

- Fastest Route (Recommended) (Line 9 Express + Line 7)
  - ○ Gimpo Int'l Airport Station (Line 9 Express) → Express Bus Terminal Station (Transfer to Line 7 toward Seongnam/Onsu) → Arrive at Soongsil University Station
  - ○ Approx. 45 – 50 min
- Alternative Route (Line 5 + Line 2 + Line 7)
  - ○ Gimpo Int'l Airport Station (Line 5) → Yeongdeungpo-gu Office Station (Transfer to Line 2) → Daerim Station (Transfer to Line 7) → Arrive at Soongsil University Station
  - ○ Approx. 55 min – 1 hr

[Bus] Subway + City Bus Transfer

- Route Details: Board Line 9 at Gimpo Int'l Airport Station → Get off at Nodeul Station → Transfer to City Bus at Nodeul Station stop → Get off at Soongsil University Station
- City Bus Numbers: 501, 751, 752, or 5517
- Estimated Travel Time: Approx. 50 minutes to 1 hour

3. From Soongsil University station (Exit 3) to Hyungnam Memorial Engineering Building

- Exit from Soongsil Univ. Station Exit 3 and walk straight toward Hyungnam Engineering Building (the tallest building in the campus).
- 1st Floor Entrance: Follow the path leading to the side/lower entrance of the building. (Registration desk will be on the 1st Floor.)
- 2nd Floor Entrance: Walk up toward the main plaza area to enter directly on the 2nd floor.

Seoul City Tour Bus

The Seoul City Tour Bus provides organized shuttle tours to the city's most popular attractions. For the price of just a single ticket, you can spend all day hopping on and hopping off the *bus as it follows a circular route connecting Seoul's top sightseeing destinations. For first-time visitors, there is no better way to discover the city.

*Night Courses run without stops.

The company offers audio guides of Seoul in 11 different languages. At first, the audio guide was only available in Korean, English, Japanese, and Chinese. Service has since expanded to include French, German, Russian, Spanish, Thai, Vietnamese, Indonesian, and, Malaysian. The Seoul City Tour Bus company is currently working on adding more languages for the convenience of visitors and Italian, Arabic, Hindi, and Portuguese will be available in the future.

Single-use headphones are provided for each passenger upon boarding the bus. The open-air double-decker buses have rain and snow covers to keep passengers dry and warm even in inclement weather. Additional information is available at https://english.visitseoul.net/citytourbus.

Gwanghwamun Square

In 2022, Gwanghwamun Square, which used to be the widest road in the Republic of Korea, has been reborn as a symbolic place harmonized with the environment and 600-year-old history. Experience the future of Seoul, which is evolving into an ecological city for citizens, while walking along Gwanghwamun Square, Sejong-daero Forest Road, and Seoul Plaza.

[Changgyeonggung Palace_Night Course] The Queen's Night Outing

A course to explore Changgyeonggung Palace, which was built from filial mind and filled with deeply affecting stories since its establishment. See how the solitary queen leads her life and the women trying to gain the king's love.

Chundangji Pond

On the rear garden grounds of Changgyeonggung Palace sits Chundangji Pond. It is known for its beautiful nature and fall foliage. Chundangji consists of two parts. The smaller upper half is the original location of the pond, while the lower half was initially used as a naenongpo , a place for the royal court to experiment with planting crops such as rice. However, during the Japanese occupation in 1909, the naenongpo was converted into a pond. In 1986, it was renovated into a traditional Korean style. Visitors can also see the seven-story pagoda, made in 1470, sitting on the shore of the pond.

Samcheong-ro, A Street Connecting the Traditional and Modern Worlds

Samcheong-ro is a street that cuts through Samcheong-dong from Dongsipjagak Tower, which used to guard the southeastern side of Gyeongbokgung Palace, all the way to Samcheong Tunnel. A range of stylish cafes, restaurants, and shops, as well as contemporary art galleries line the street that stretches for about 2 kilometers, forming a kind of "culture street" in Samcheong-dong. Rows of low-story buildings standing along the street create quite an impressive scene.

Samcheong-ro starts at Gallery Street by the wide road adjacent to the eastern side of Gyeongbokgung Stonewall Walkway, and connects to Samcheong-dong Cafe Street, an old alleyway filled with cute little stores and cafes. There are endless things to see and enjoy on this street clustered with small buildings.

Visit Samcheong-ro, a representative culture street in Seoul, and enjoy the unique, modern styles of art galleries, cafes, and shops found in every nook and cranny of Samcheong-ro.

Insadong

Nowhere exudes more local and traditional charm than Insa-dong, a quaint neighborhood in the center of Seoul that transports visitors back to a time when women wore hanbok and men rode horses. With its wooden tea houses, boutique galleries and street vendors selling traditional snacks, a stroll through Insa-dong is mandatory for all visitors, especially on Sundays when the streets become traffic free and come alive with street performances, buskers and throngs of young and old who have come to experience one of Seoul's most fascinating and creative neighborhoods. While the entertainment here is free, Insa-dong is also one of the best places in Seoul to purchase traditional Korean art, products, and other souvenirs, as it is filled with antique shops, art galleries, traditional stationery shops, handicraft shops, pottery and porcelain shops, bookstores, and art supply stores. Insa-dong is also home to many traditional restaurants and tea houses.

Chundangji Pond

On the rear garden grounds of Changgyeonggung Palace sits Chundangji Pond. It is known for its beautiful nature and fall foliage. Chundangji consists of two parts. The smaller upper half is the original location of the pond, while the lower half was initially used as a naenongpo , a place for the royal court to experiment with planting crops such as rice. However, during the Japanese occupation in 1909, the naenongpo was converted into a pond. In 1986, it was renovated into a traditional Korean style. Visitors can also see the seven-story pagoda, made in 1470, sitting on the shore of the pond.

Jonggak Underground Shopping Center

Jonggak Underground Shopping Center is located in Jongno, one of the major central areas of Seoul. A plethora of nightlife options in the Jongno area attract a younger demographic, and the underground shopping center caters to them with a wide variety of fashion stores. Located just 5-10 minutes on foot from the underground shopping center is Insa-dong, the most famous traditional street in Seoul.

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