Table of Contents

Part I Conference Schedule Summary	2
Part II Keynote Speeches	4
Keynote Speech 1: Overview of Electromagnetic Selective Structures	4
Keynote Speech 2: Enhancing Robustness in Deep Learning: A Universal	
Mechanism for Adversarial Example Detection in Multiple Types Data	5
Keynote Speech 3: Trustworthy AI Aiding Clinical Diagnosis in Real World	6
Invited Speech 1: Defective Workpiece Sorting Robots Incorporating a	
Teaching Points Generator and a CNN for Defect Detection	8
Invited Speech 2: Improving 6G Network Reliability: Experimental	
Advances in mmWave Backhaul for NLOS Conditions	9
Part III Poster Session	10
Poster Presentations	10
List of Posters	10
Part IV Oral Presentations	11
General Guidelines	11
Session 1: Systems Science and Information Communication	13
Session 2: Internet Technology and Signal Processing	14
Part V Conference Venue	16
Part VI Acknowledgements	18

* The Program is used for CECNet 2024 Academic Exchange Only

Part I Conference Schedule Summary

Tuesday, November 5, 2024 / Japan Standard Time (UTC+9)		
Time	Schedule	Location/Link
14:00-20:00	Physical Registration	In front of Meeting Room 501 at Kunibiki Messe
15:00-17:00	MS Teams Testing	http://www.academicconf.com/teamslink?confname=cecnet2024

Notice (for offline participants):

Wednesday, November 6, 2024 / Japan Standard Time (UTC+9)

Location: Meeting Room 401 (Morning Session), 403 (Afternoon Session), Kunibiki Messe MS Teams Link: http://www.academicconf.com/teamslink?confname=cecnet2024

00.00 00.05	Welcome Speech
09:00-09:05	Prof. Qixin Guo, Saga University, Japan
	Keynote Speech 1: Overview of Electromagnetic Selective Structures
09:05-09:45	Prof. Zhongxiang Shen, Yangtze Delta Region Academy of Beijing Institute of Technology (Jiaxing), China
09:45-10:25	Keynote Speech 2: Enhancing Robustness in Deep Learning: A Universal Mechanism for Adversarial Example Detection in Multiple Types Data
07.43-10.23	Prof. Han-Chieh Chao, Department of Electrical Engineering, National Dong Hwa University
10:25-10:55	Group Photo & TEA BREAK
10:55-11:35	Keynote Speech 3(Online): Trustworthy AI Aiding Clinical Diagnosis in Real World
	Prof. Qin Zhang, Institute of Nuclear and New Energy Technology and Department of Computer Science and Technology, Tsinghua University, China
11:35-11:55	Invited Speech 1: Defective Workpiece Sorting Robots Incorporating a Teaching Points Generator and a CNN for Defect Detection
11.33-11.33	Prof. Fusaomi Nagata, Department of Mechanical Engineering, Faculty of Engineering, Sanyo-Onoda City University, Japan
11:55-12:15	Invited Speech 2: Improving 6G Network Reliability: Experimental Advances in mmWave Backhaul for NLOS Conditions
11:33-12:13	Prof. Larbi Talbi, Department of Computer Science and Engineering (DCSE), University of Quebec, Canada

^{*} Please show us your name or paper ID for registration.

^{*} Please pick up all the conference materials at the registration desk (Name Card, Conference Program, Lunch & Dinner Tickets, etc.).

12:15-12:30	Poster Presentations (Meeting Room 401)
12:30-14:00	LUNCH BREAK (Meeting Room 401)
14:00-16:45	Oral Session 1: Systems Science and Information Communication
18:00-19:00	DINNER (Meeting Room 403)

Thursday, November 7, 2024 / Japan Standard Time (UTC+9)

Location: Meeting Room 403

MS Teams Link: http://www.academicconf.com/teamslink?confname=cecnet2024

09:00-12:10	Oral Session 2: Internet Technology and Signal Processing
12:10-14:00	LUNCH BREAK (Meeting Room 403)
14:00-18:00	Free Activities
18:30-20:30	DINNER BANQUET
16.30-20.30	Location: YUUSHIEN Garden in Daikonshima

Friday, November 8, 2024 / Japan Standard Time (UTC+9)

09:00	Set off from Kunibiki Messe
09:00-16:00	One Day Field Visit in Matsue City: Matsue Castle, Horikawa Sightseeing Boat, Matsue Vogel Park

Part II Keynote Speeches

Keynote Speech 1: Overview of Electromagnetic Selective Structures



Prof. Zhongxiang Shen

Yangtze Delta Region Academy of Beijing Institute of Technology (Jiaxing), China

Biography: Zhongxiang Shen received the B. Eng. degree from the University of Electronic Science and Technology of China, Chengdu, China, in 1987, the M. S. degree from Southeast University, Nanjing, China, in 1990, and the PhD degree from the University of Waterloo, Waterloo, Ontario, Canada, in 1997, all in electrical engineering. From 1990 to 1994, he was with Nanjing University of Aeronautics and Astronautics, China. He was with Com Dev Ltd., Cambridge, Canada, as an Advanced Member of Technical Staff in 1997. He spent six months each in 1998, first with the Gordon McKay Laboratory, Harvard University, Cambridge, MA, and then with the Radiation Laboratory, the University of Michigan, Ann Arbor, MI, as a Postdoctoral Fellow. From Jan. 1999 to December 2023, he was a faculty member (Assistant Professor, Associate Professor and Full Professor) of Nanyang Technological University, Singapore. He is now a Strategic Scientist at Yangtze Delta Region Academy of Beijing Institute of Technology, Jiaxing, Zhejiang, China. Dr. Shen served as the Chair of the IEEE MTT/AP Singapore Chapter in 2009. From Jan. 2010 to Aug. 2014, he was the Chair of IEEE AP-S Chapter Activities Committee. From July 2014 to December 2018, he served as the Secretary of IEEE AP-S. He was an elected AdCom member of the IEEE AP-S from Jan. 2017 to Dec. 2019. He served as an Associate Editor of the IEEE Transactions on Antennas and Propagation from July 2016 to July 2022. From Jan. 2021 to Dec. 2023, he is a Distinguished Lecturer of the IEEE AP-S. Prof. Shen is currently the Editor-in-Chief of IEEE Open Journal of Antennas and Propagation. Prof. Shen is an IEEE Fellow. His research interests include small and planar antennas for various wireless communication systems, analysis and design of frequency-selective structures and absorbers, hybrid numerical techniques for modeling RF/microwave components and antennas. He has authored more than 240 journal papers (among them 180 were published in IEEE Journals) and also presented nearly 200 papers at international conferences.

Abstract: In this talk, we intend to provide a brief overview of electromagnetic selective surfaces/structures (EMSS). According to the properties of an incident electromagnetic wave, EMSS can be divided into four categories: frequency-selective structure (FSS), polarization-selective surface (PSS), angle-selective surface (ASS), and energy-selective surface (ESS). Recent developments and advances in the design of EMSS will also be briefly introduced. Finally, future opportunities in the areas of the design and analysis of EMSS will be suggested.

Keynote Speech 2: Enhancing Robustness in Deep Learning: A Universal Mechanism for Adversarial Example Detection in Multiple Types Data



Prof. Han-Chieh Chao

Department of Electrical Engineering, National Dong Hwa University

Biography: Han-Chieh Chao received his M.S. and Ph.D. degrees in Electrical Engineering from Purdue University, West Lafayette, Indiana, in 1989 and 1993, respectively. He is currently a professor with the Department of Electrical Engineering, National Dong Hwa University, where he also serves as president. He is also with the Department of Computer Science and Information Engineering, National Ilan University, Taiwan. He was the Director of the Computer Center for Ministry of Education Taiwan from September 2008 to July 2010. His research interests include IPv6, Cross-Layer Design, Cloud Computing, IoT, and 5G Mobile Networks. He has authored or coauthored 4 books and has published about 400 refereed professional research papers. He has completed more than 150 MSEE thesis students and 11 Ph.D. students. Dr. Chao has been invited frequently to give talks at national and international conferences and research organizations. He serves as the Editor-in-Chief for the IET Networks, the Journal of Internet Technology, the International Journal of Internet Protocol Technology, and the International Journal of Ad Hoc and Ubiquitous Computing. He is a Fellow of IET (IEE) and a Chartered Fellow of the British Computer Society. Due to Dr. Chao's contribution of suburban ICT education, he has been awarded the US President's Lifetime Achievement Award and International Albert Schweitzer Foundation Human Contribution Award in 2016.

Abstract: Deep Neural Networks (DNNs) models are vulnerable to adversarial example(AE). For examples, Self-driving cars: Causing the traffic accident of self-driving cars, let voice assistant executing the wrong order or spread malicious speech through textual filter bot. We therefore proposed an AE detection method based on Poisson distribution. In the experiment, we demonstrated the generalization ability of our method. The experimental results show that our method is not limited to specific data. Also our method can effectively detect attacks with small perturbation degrees. In the future we will try to detect different, including those specifically designed to circumvent defense method.

Keynote Speech 3: Trustworthy AI Aiding Clinical Diagnosis in Real World



Prof. Qin Zhang

Institute of Nuclear and New Energy Technology and Department of Computer Science and Technology, Tsinghua University, China

Biography: Qin Zhang graduated from Tsinghua University, Beijing, China, with BS., MS. and Ph.D. Degrees in nuclear engineering in 1982, 1984 and 1989 respectively. He was a visiting scholar with University of Tennessee, Knoxville, TN, USA, and University of California, Los Angeles, CA, USA, from 1987 to 1989, working on system reliability engineering and intelligent fault diagnoses. He is a professor of Institute of Nuclear and New Energy Technology and Department of Computer Science and Technology, Tsinghua University, emeritus member of China Association for Science and Technology, member of International Nuclear Energy Academy, fellow of China Association for Artificial Intelligence (CAAI) and director of the specialized committee for causality and uncertainty in AI of CAAI, consultant of the specialized committee for wise medical care of CAAI, Chief scientist of Beijing Yutong Intelligence Technology corp., ltd. He is the former vice president of China Association for Science and Technology, and the standing member of the 13th CPPCC. He originally developed a new AI model called Dynamic Uncertain Causality Graph for fault diagnoses and disease diagnoses. The DUCG medical system has been applied in 4 districts and a county in China for a few years, covering 46 chief complaints such as headache, dizziness, joint pain, etc., including 1500 diseases. More than 2 million cases have been diagnosed with only 17 mistakes identified. All the mistakes were traced and corrected without further mistake reports about them.

Abstract: Medical AI needs to be trustable. However, the current AI such as Deep Learning and Large Language Models is black-box without explainability. DUCG (Dynamic Uncertain Causality Graph) is a newly developed trustworthy medical AI for clinical diagnosis in general practice and beyond. It graphically represents the medical knowledge and makes probabilistic reasoning with explainability, transparency and inherent invariance in different application scenarios. It is causalitydriven instead of data-driven, so that it does not have problems such as data collecting, labeling, training, hallucination, generalization, privacy, bias, high cost and high energy consumption, etc. Cooperated with clinical experts deeply, 46 chief complaint models covering more than 1,500 diseases have been constructed and applied in the real-world in China. 41 models are retrospectively verified by third-party grade IIIA (the highest grade in China) hospitals. The verified diagnostic precisions of the 41 models are no less than 95%, in which the precision for every disease including the uncommon one is no less than 80%. More than 2 million real diagnosis cases have been performed, in which the prospective study was executed to some extent. So far, 17 cases have been identified as incorrect. The mistakes in DUCG were traced and corrected. These mistakes have not been reported since the corrections. Statistics show that DUCG can improve the ability of general practitioners to diagnose diseases several times more than without DUCG. The chief complaints are: dizziness, headache, nasal congestion (including runny nose), nosebleeds, sore throat (including dry

throat, itching, and foreign body sensation), jaundice, swallowing difficulties, cyanosis, coughing and sputum production, difficulty breathing (including chest tightness and shortness of breath), neck and back pain, hemoptysis, lymphadenopathy, chest pain, palpitations, vomiting blood, joint pain, nausea and vomiting, menstrual reduction or amenorrhea, limb numbness, edema, bloody stools, constipation, vulvar itching, abnormal vaginal secretions, vaginal bleeding, rash, fever, anemia, obesity, weight loss, children's fever, abdominal pain, diarrhea, fainting, bloating, oliguria or anuria, lower urinary tract symptoms (frequent urination, urgency, painful urination, gross hematuria, difficulty urinating, polyuria, leakage), lumps A diagnostic model was constructed and tested for more than 70 chief complaint symptoms, including acid reflux, heartburn, belching, ear symptoms (including ear pain, tinnitus, and deafness), scrotal pain, insomnia (including difficulty falling asleep, easy awakening, and early awakening), eye pain, redness, and tearing (including eye pain, redness, tearing, dryness, itching, swelling, and foreign body sensation), visual dysfunction (including visual abnormalities, visual field defects, visual distortion, color vision changes, flash sensation, diplopia, strabismus, and floaters), toothache.

Keywords: Trustworthy, Causality, Diagnosis, Explainability, Probabilistic Reasoning.

Reference:

Zhan Zhang, Qin Zhang, et al. Methodology and real-world applications of dynamic uncertain causality graph for clinical diagnosis with explainability and invariance, Artificial Intelligence Review, (2024) 57:151, DOI: 10.1007/s10462-024-10763-w.

Invited Speech 1: Defective Workpiece Sorting Robots Incorporating a Teaching Points Generator and a CNN for Defect Detection

Prof. Fusaomi Nagata, Department of Mechanical Engineering, Faculty of Engineering, Sanyo-Onoda City University, Japan

Abstract: What we like to present is two points. One is the automatic teaching point generation for an industrial robot considering undesirable misalignment between robot and work coordinate systems. When a peg-in-hole task with little clearance is tried to be automated by an industrial robot, there is a problem due to the misalignment between robot and work coordinate systems. Such a misalignment, for example, sometimes occurs caused by over and under tightening of screws and bolts used to fix a robot and jigs on a working table, and tends to cause serious troubles such as breakage of workpieces and end-effectors. To cope with the problem, we have developed an application software on Python that automatically generates compensated teaching points for picking and placing only by giving the four corner positions on a working table. The other is the defective workpiece sorting robot incorporated with a Convolutional Neural Network (CNN) model. Generally, the functionality of the standard teaching interface provided by a robot maker seems to be limited to only the playback-type position control. Also, the extension of the functionality tends to be not easy for users and require much cost. To support the enhancement of the functionality, we have already proposed the Hyper Cutter Location Source (HCLS) data-based robotic interface. The HCLS data interface allows users to build a defective workpiece sorting system by multiple industrial robots incorporated with a CNN model for defect detection. The robots can collaboratively handle a single camera while targeting the sorting of industrial workpieces provided by a manufacturer. The effectiveness and usefulness of the proposed system implementing the introduced two functions are demonstrated through cooperative peg-in-hole tasks using two small-sized industrial robots MG400s as shown in Fig. 1.

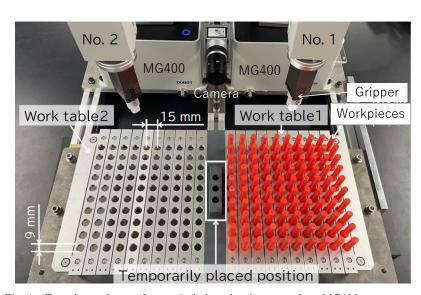


Fig. 1 Experimental setup for peg-in-hole task using two robots MG400s.

Invited Speech 2: Improving 6G Network Reliability: Experimental Advances in mmWave Backhaul for NLOS Conditions

Prof. Larbi Talbi, Department of Computer Science and Engineering (DCSE), University of Quebec, Canada

Abstract: With the advent of 6G networks, the demand for high-speed, high-capacity wireless communication has never been greater. One of the critical components of 6G infrastructure is the backhaul network, which connects base stations to the core network. Millimeter wave (mmWave) technology, operating in the 30-300 GHz frequency range, offers a promising solution due to its vast available spectrum. However, mmWave signals suffer from high path loss and are significantly attenuated in non-line-of-sight (NLOS) scenarios. This experimental research proposes a new strategy to enhance mmWave backhaul coverage in NLOS conditions, thereby improving the overall performance and reliability of 6G networks. Fig. 1 shows the layout of the scenario and the measurement setup.

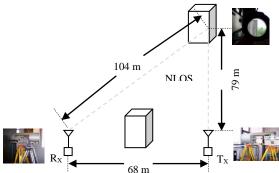


Fig. 1. Schematic diagram of the experimental setup.

Part III Poster Session

Materials Provided by the Conference Organizer:

- ♦ X Racks & Base Fabric Canvases
- ♦ Adhesive Tapes or Clamps

Materials Provided by the Presenters:

- ♦ Home-made Posters
- ♦ Posters printed by CECNet 2024 Committee

Requirements for the Posters:

- ♦ Materials: not limited, can be posted on the Canvases
- ♦ Size: W1200*H2100
- ♦ Horizontal Head: please make the conference name 'CNT 2024' and the paper number 'CNT**** as the head of the poster in order to make all the posters unified.



Poster Presentations

Time: 12:15-12:30 Wednesday, November 6, 2024

Conference Room: Meeting Room 401

List of Posters

CNT3554

Design and Simulation of Ultra-Wideband Antenna for Wireless Applications as Reference Antenna in the Anechoic Chamber

Mr. Chu-Chun Hsu, Lunghwa University of Science and Technology

Part IV Oral Presentations

General Guidelines

- ♣ All presentation times are shown in **Japan Standard Time** (UTC+9);
- ♣ Duration for Invited Oral Presentation: 20 Minutes of Presentation including 3-5 Minutes of Q&A;
- ♣ Duration for Regular Oral Presentation: 15 Minutes of Presentation including 2-3 Minutes of Q&A;
- All presenters are requested to reach the Session Room 15 minutes prior to the schedule time and complete their presentation on time;
- ♣ Presenters should prepare Power Pointer or PDF Files for Presentation with Paper ID (CNT****) marked in the last page;
- **♣** Signed and stamped presentation certificate would be issued after presentation.

Offline Oral Presentation Guidelines

Devices Provided by the Conference Organizer:

- ♣ Laptops (with MS-Office & Adobe Reader)
- Projectors & Screen, Laser Sticks, Microphones
- ♣ Please send us the PowerPoint once it is ready and have the PPT back up in a U-disk. For presenters who do not send the PowerPoint, please save it in the laptop of the corresponding session 15 mins in advance. Kindly tell the Session Chair (before the start of your session) that you are presenter.

Online Oral Presentation Guidelines

- ♣ Online Oral Presentation will be conducted via Microsoft Teams Meeting.
- If a presenter is not able to show up via Teams, the session chair/conference secretary will play the pre-recorded video presentation during his/her scheduled presentation time. If listeners have questions about the presentation, please contact the conference secretary to forward the questions.

Best Oral Presentations Selection Guidelines

Selection Criteria:

ONE best presentation will be selected from EACH session based on the following criteria:

- ✓ Research Quality
- ✓ Presentation Performance
- ✓ Presentation Language
- ✓ Interaction with Listeners
- ✓ PowerPoint Design
- ✓ Effective Communications

Selectin Procedure:

- ✓ An assessment sheet will be delivered to listeners before the session.
- ✓ Write the numbers of two best presentations and submit the filled assessment sheet (with the

- listener's name and signature) to the Session Chair before the session termination.
- ✓ The Session Chair will count the votes for each presentation and name the winner based on the maximal number of votes. The Session Chair has three votes but can use only one in favor of his/her own presentation (if any). To avoid any conflict of interests, only registered listeners are entitled to vote.

Best Oral Presentations Award:

- ✓ This award consists of free registration to the next conference CECNet 2025 and a certificate.
- ✓ The awards will be announced at the official website after the conference.

Assessment Sheet Sample

CECNet 2024 Oral Presentation Assessment

Dear participants,

After carefully listening to the presentations of this session, please kindly recommend two excellent Oral Presentations with reference to the following evaluation criteria.

The Session Chair will count the votes from each presentation and select ONE Best Oral Presentation in this session. If there is a tie, the Session Chair will make the final decision.

The winner will be announced at the official website after the conference.

You can refer to the following Criteria:

Total carrier to the Ton	5 // 11-8 - C11-011-W
Items	Assessment
Content	Right, Logical, Original, Well-Structured
Language	Standard, Clear, Fluent, Natural
Performance	Spirited Appearance, Dress Appropriately, Behaves Naturally
PPT	Layout, Structure, Typeset, Animation, Multimedia
Reaction	Build a Good Atmosphere, Speech Time Control Properly

Please write down paper ID and give reasons for your recommendation:

	1 1	0	•	
Paper ID			Reasons	

Evaluated	by:		(Paper II):
-----------	-----	--	-----------	----

Note: When the session finished, please fill it out and give it to the Session Chair so that the Best Oral Presentation in this session can be selected.

Session 1: Systems Science and Information Communication

Time: Wednesday, November 6, 2024

Location: Meeting Room 403, Kunibiki Messe

Session Chair: Prof. Joanna Studzińska, Kozminski University, Poland

Online Room Link: http://www.academicconf.com/teamslink?confname=cecnet2024

CNT3511	Artificial Inteligence in Civil Procedure in Europe - Some Perspectives Prof. Joanna Studzińska, Kozminski University, Poland
CNT3452	Mobile Learning for the Enhancement of Social Inclusiveness for Students in Open Distance e-Learning Institutions in Developing Countries Dr. Petra le Roux, School of Computing, University of South Africa (UNISA), South Africa
CNT3547	Towards Quantum Telecommunications: Point of View of the Implementation Task of the Experimental Quantum Key Distribution Backbone Deployment Project Ms. Inara Opmane, Institute of Mathematics and Computer Science of University of Latvia, Latvia
CNT3548	The Intelligence of Places: Towards Healthy, More Inclusive, Sustainable and Resilient Urban Environments Prof. Stéphane Roche, Institut en Environnement, Développement et Société (EDS), Université Laval, Canada
CNT3532	Effects of Work Support System for Construction Machine Work Prof. Hironao Yamada, Department of Mechanical Engineering, Gifu University, Japan
	Coffee Break
CNT3530	Nanometer Optical Metrology Dr. Joerg Bischoff, Osires Optical Engineering Ilmenau, Germany
CNT3530 CNT3525	Nanometer Optical Metrology
	Nanometer Optical Metrology Dr. Joerg Bischoff, Osires Optical Engineering Ilmenau, Germany The Concept of Using UAVs in Logistics Ms. Patrycja Guzanek, Doctoral School, Military University of Technology,
CNT3525	Nanometer Optical Metrology Dr. Joerg Bischoff, Osires Optical Engineering Ilmenau, Germany The Concept of Using UAVs in Logistics Ms. Patrycja Guzanek, Doctoral School, Military University of Technology, Poland Broadband and Firm Entries in Lithuania
	CNT3452 CNT3547 CNT3548

Session 2: Internet Technology and Signal Processing

Time: Thursday, November 7, 2024

Location: Meeting Room 403, Kunibiki Messe

Session Chair: Prof. Zhongxiang Shen, Yangtze Delta Region Academy of Beijing Institute of

Technology (Jiaxing), China

Online Room Link: http://www.academicconf.com/teamslink?confname=cecnet2024

Online Room	Link: http://w	ww.academicconf.com/teamslink?confname=cecnet2024	
09:00-09:20	CNT3544 (Invited)	Recent Advances in Integrated-optic Signal Processing Devices Based on Optical Fourier Transform Prof. Koichi Takiguchi, Department of Electrical and Electronic Engineering, Ritsumeikan University, Japan	
09:20-09:40	CNT3432 (Invited) (Online)	Real-sample Analysis Using Organic Transistor-based Chemical Sensors Prof. Tsuyoshi Minami, Institute of Industrial Science, The University of Tokyo, Japan	
09:40-09:55	CNT3549	A 25Gb/s Low-noise Fast-settling Burst-mode Optical Receiver Front End in 40nm CMOS Dr. Yizhou Zhao, Institute of RF and OE-ICs, Southeast University, China	
09:55-10:10	CNT3499	Leveraging ESP32 and Azure for IoT-Enhanced Remote FPGA Debugging with Power-Efficient Environmental Monitoring Dr. Yifan Yang, Inter-University Institute for High Energies, Université libre de Bruxelles, Belgium	
10:10-10:25	CNT3550	A 28-Gbaud PAM4 Modulator Driver in 40-nm CMOS Technology Dr. Chenghao Wu, Institute of RF and OE - ICs, Southeast University, China	
10:25-10:40		Coffee Break	
10:40-10:55	CNT3514	Single-input Multi-output High Conversion Ratio Hybrid Structure Buck-boost DC-DC Converter for Energy Harvesting Dr. Guojun Su, Guangxi Key Laboratory of Precision Navigation Technology and Applications, Guilin University of Electronic Technology, China	
10:55-11:10	CNT3522 (Online)	A High Gain X-band Horn Antenna Array with Wide-angle Beam Steering in E-plane Ms. Thi Huong Ngo, Viettel High Technology Industry Corporation, Vietnam	
11:10-11:25	CNT3551	A Low-mismatch 20GS/s 5-bit Flash ADC in 90nm SiGe BiCMOS Technology Dr. Yinghao Chen, Institute of RF and OE-ICs, Southeast University, China	
11:25-11:40	CNT3491	MiniMALTA3, a Monolithic Active Pixel Sensor with Fast Timing Tagging Below 1 ns Dr. Marcos Vazquez Nuñez, Universitat de Valencia, Spain	

11:55-12:10	CNT3541	Performance Analysis of the Sidelink Broadcast Channel for 5G NR Systems in the Unlicensed Band
11.33-12.10	(Online)	Dr. Igor Serunin, LG Electronics Russia R&D Lab, St. Petersburg, Russia cLG Electronics, South Korea

Part V Conference Venue

Kunibiki Messe

(Shimane Prefectural Convention Center)

The biggest convention center in Shimane prefecture, Kunibiki Messe, is located in the center of Matsue City. There are Exhibition Hall (4,018 sqm), Multipurpose Hall (686 sqm), International Conference Hall (510 sheets), and 19 meeting rooms.

Free Wi-Fi is available in building.

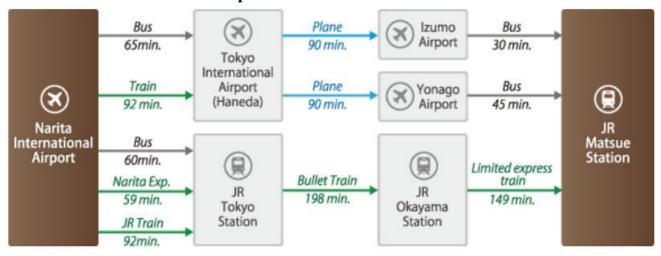




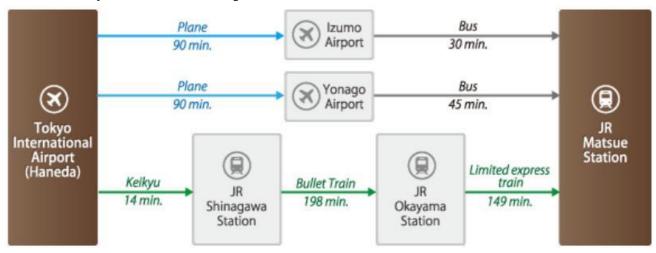
Access to JR Matsue Station:



1. From Narita International Airport



2. From Tokyo International Airport



3. From Kansai International Airport



Part VI Acknowledgements

On behalf of the CECNet 2024 Organizing Committee, we would like to take this opportunity to express our sincere gratitude to our participants. We would also like to express our acknowledgements to the Technical Program Committee members who have given their professional guidance and valuable advice as reviewers. For those who contribute to the success of the conference organization without listing the name below, we would love to say thanks as well.

CECNet 2024 Technical Program Committee

Conference General Chair

Prof. Qixin Guo, Saga University, Japan

Technical Program Committee (TPC) Chair

Prof. Shin-ichi Nishida, Saga University, Japan

Technical Program Committee

Prof. Zhihua Zhang, Kansai University of International Studies, Japan

Prof. Mesut Günes, Communication and Networked Systems, Institute for Intelligent Cooperating

Systems, Otto-von-Guericke-University Magdeburg, Germany

Prof. Minghan Wei, Florida Atlantic University, USA

Prof. Bin Xue, National University of Defense Technology, China

Prof. Chunbiao Li, Nanjing University of Information Science and Technology, China

Prof. Lu Leng, Nanchang Hangkong University, China

Prof. Tao Zhang, University of Science and Technology, China

Prof. Vijayakumar Varadarajan, University of New South Wales, Australia

Prof. Jonny Paul Zavala De Paz, Universidad Politécnica de Querétaro, Mexico

Prof. Tarik A. Rashid, Computer Science and Engineering, University of Kurdistan Hewler, Iraq

Assoc. Prof. Chao Zhang, Shanxi University, China

Assoc. Prof. Keke Shang, Computational Communication Collaboratory of Nanjing University, China

Assoc. Prof. Li Xiang, Guilin University of Electronic Technology, China

Assoc. Prof. Xie Gang, Beijing University of Posts and Telecommunications, China

Assoc. Prof. Libor Pekař, Department of Automation and Control Engineering, Faculty of Applied

Informatics, Tomas Bata University in Zlín, Czech Republic

Assoc. Prof. Armen Bagdasaryan, American University of the Middle East, Kuwait

Assoc. Prof. Shurui Zhang, Nanjing University of Science & Technology, China

Dr. Amir Masoud Molaei, Queen's University Belfast, UK

Dr. Chia Chao Kang, Xiamen University Malaysia, Malaysia

Dr. Daming Feng, CGG, USA

- Dr. Feixiang Li, The 15th Research Institute of China Electronics Technology Corporation, China
- Dr. George Musumba, Dedan Kimathi University of Technology, Kenya
- Dr. Haibo Li, School of Mathematics and Statistics, The University of Melbourne, Australia
- Dr. Jiaju Miao, Department of Applied Mathematics & Statistics, Stony Brook University, USA
- Dr. Kaiqiao Li, Amazon.com, USA
- Dr. K. Prahlada Rao, Gulbarga University, India
- Dr. Koffka Khan, Department of Computer and Information Technology, University of the West Indies, West Indies
- Dr. Ladislav Polák, Department of Radio Electronics, Brno University of Technology, Czech Republic
- Dr. Lav Gupta, Department of Computer Science, University of Missouri St. Louis, USA
- Dr. Mojtaba Ahmadieh Khanesar, Nottingham Advanced Robotic Laboratory, University of Nottingham, UK
- Dr. Nguyen Cong Phuong, Hanoi University of Science and Technology, Vietnam
- Dr. Ruzhang Zhao, Department of Biostatistics, Johns Hopkins University, USA
- Dr. Stefano Cirillo, Department of Computer Science, University of Salerno, Italy
- Dr. Subrato Bharati, Institute of Information and Communication Technology, Bangladesh University of Engineering and Technology, Bangladesh
- Dr. Tao Yang, State Key Laboratory of Information Photonics and Optical Communication, Beijing University of Posts and Telecommunications, China
- Dr. Tianliang Zhang, Telecommunication Engineer, University of Texas at Dallas, USA
- Dr. Valerio Frascolla, Research and Innovation, Intel Labs, Germany
- Dr. Weiwei Jiang, School of Information and Communication Engineering, Beijing University of Posts and Telecommunications, China
- Dr. Xiaoming Li, Concordia University, Canada
- Dr. Xinxing Wu, Midway University, Kentucky, USA
- Dr. Zheng Guo, NXP Semiconductors, USA
- Dr. Ziru Chen, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China
- Dr. Zuowei Zhang, Northwestern Polytechnical University, China

Memo Pages