

The 20th International Conference on IP / IoT & Processing + Optical Network (iPOP 2024)



Harmony Goryokaku,
Hakodate-shi, Hokkaido, Japan.

June 27th to 28th, 2024 Japan Standard Time (UTC+9:00)



Welcome Message

Dear friends, presenters and supporters of iPOP Conference,
 This year marks the 20th anniversary of iPOP International conference, which has been founded and sponsored by Photonic Internet Labs (PIL) and ISOCORE. Since its inception, the conference has enjoyed well attendance with diverse and involved participants.

This year iPOP2024, planned as a full in-person conference, will be held with showcases and exhibitions during June 27-28, 2024 in Harmony Goryokaku, Hakodate-shi, Hokkaido, Japan. June is the best season to visit Hokkaido. There are many attractions such as nature, beautiful scenery, as well as delicious gourmet food. Moreover, you can access by flight from Tokyo in less than 2 hours.

For this year's event, we are augmenting the existing central theme of the conference with forward-looking 6G networks and green/smart city which include all photonic network. In 6G networks, not only huge bandwidth, but also super-low latency with green technology are needed. New breakthroughs to support them are needed. In addition, we have networks topics for flexible service such as SDN and NFV with the focus on reliable, manageable, flexible and cost-effective carrier and/or service provider and data center networks. Of course, mobile access network integration like 5G are hot topics. By AI and data analytics support reliable and high-efficient network operation and network. All-photonic become much for AI application networks which connect high-performance processing power with AI create new network paradigm. The iPOP conference venue this year happens to be at the heart of IOWN technology which is promoted by Intel, SONY and NTT. Now iPOP stands for "Intelligent and Processing over Optical networks" that is for AI platform all optical network, which is the real target for IOWN or 6G. We hope that you will be able to join us in person at iPOP 2024 with presentations in person. We look forward to your participation and support to make the event a great success!



Naoaki Yamanaka,
Keio University, Japan

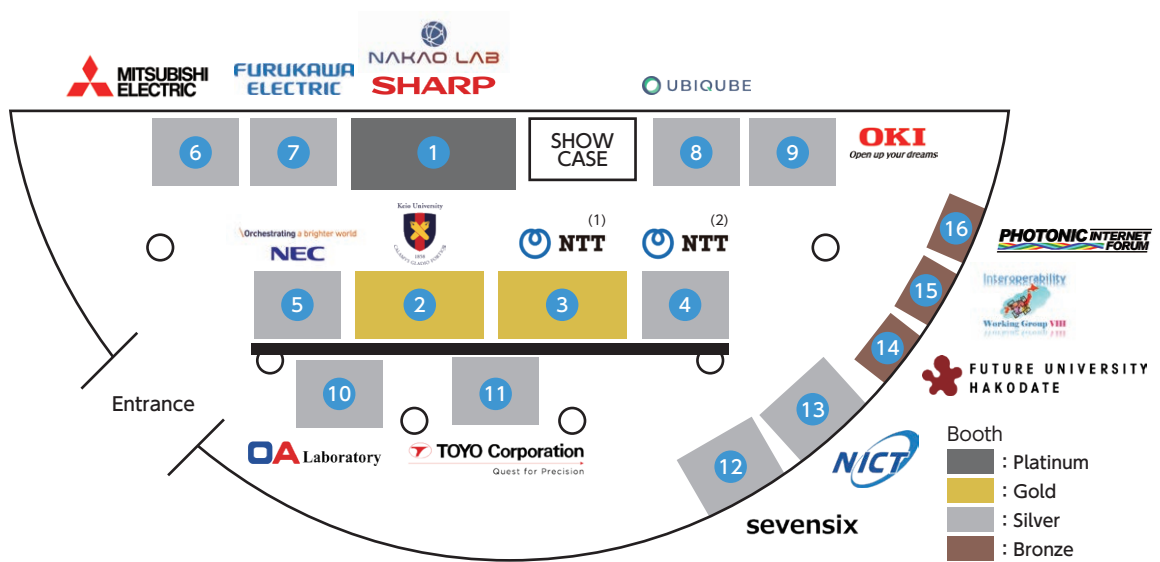
Takeshi Kuwahara,
NTT, Japan

Bijan Jabbari,
ISOCORE, USA

April, 2024
 iPOP 2024 General Co-Chairs
 Naoaki Yamanaka
 Takeshi Kuwahara
 Bijan Jabbari

EXHIBITION & BOOTH LAYOUT

No.	Participants	Title
1	SHARP CORPORATION, THE UNIVERSITY OF TOKYO	Development of Customizable SoC and SDR in the Beyond5G era
2	Yamanaka Laboratory, Keio University	High-functionality applications using Beyond 5G photonic network
3	NTT (1)	Photonic Exchange (Ph-EX) -Optical node system for saving energy by applying optical effects-
4	NTT (2)	NW Management and Operation Technologies Contributing to Promoting IOWN APN
5	NEC	R&D on multi-band metro-network architecture using terrific multiple wavelength
6	Mitsubishi Electric Corporation	Open Optical Transport System
7	Furukawa Electric Co., Ltd.	Converged Optical Access Node
8	UBiqube (Ireland) Limited	Take the complexity out of Hybrid Cloud Management
9	Oki Electric Industry Co., Ltd.	OKI's PtP / PtMP Selectable and Low Latency Access System
10	OA LABORATORY CO.,LTD.	12-Port Gigabit L2 Switch module compliant Smart Mobility Architecture (SMARC)
11	TOYO Corporation	High-Speed Ethernet Test and Analysis Solutions (tentative)
12	Sevensix Inc.	Super C-band Programmable Optical Filter / 800G Network Tester / Portable Optical Spectrum Analyzer
13	NICT	Autonomic Service Management
14	Future University Hakodate	Digital Health - Project-based Learning -
15	Kei-han-na Interoperability Working Group & Open Optical Network (O2N) Working Group	Activities of Interoperability Working Group and Open Optical Network (O2N) Working Group
16	Photonic Internet Forum	Introduction of the PIF Standard Promotion Committee



PROGRAM at a Glance

Thursday 27, June 2024		
Event	Presentation	
	10:00 – 12:30	iPOP Plenary - Presider: TBD Opening address - Takeshi Kuwahara, General Co-Chair, NTT, Japan - Naoaki Yamanaka, General Co-Chair, Keio University, Japan - Bijan Jabbari, General Co-Chair, ISOCORE, USA Keynote K-1 : "Next Generation All Photonics Network in Action: Unleashing the Potential of IOWN Technologies" Mr. Katsutoshi Itoh, Sony Corporation, Japan K-2 : "Towards IOWN driven by Photonics-Electronics Convergence Technology" Dr. Yuzo Ishii, NTT Innovative Devices Corporation, Japan iPOP Exhibition introduction - iPOP Exhibition Co-Chair iPOP Showcase Introduction - iPOP Showcase Co-Chair Local Arrangement - iPOP Local Arrangement Chair
Exhibition 12:30 – 17:00 Showcase	12:30 – 13:30	Lunch Break & Exhibition
	13:30 – 14:45	Technical Session 1: - Chair: TBD T1-1: Takahiro Ishiyama, Keio University, Japan T1-2: Yohei Okamoto, iD corporation, Japan T1-3: Chikara Yako, Tokyo City University, Japan
	14:45 – 15:15	Showcase Presentation
	15:15 – 15:45	Exhibition
	15:45 – 17:00	Technical Session 2: - Chair: TBD T2-1: Ryuta Murakami, Keio University, Japan T2-2: Kojiro Nishimura, Keio University, Japan T2-3: Vinay Kumar, South Asian University, India
	17:00 – 18:00	Break
	18:00 – 19:00	Reception
Friday 28, June 2024		
Exhibition 9:30 – 15:00 Showcase	9:30 – 10:00	Exhibition
	10:00 – 11:15	Technical Session 3: - Chair: TBD T3-1: Tamami Maruyama, National Institute of Technology, Hakodate College, Japan T3-2: Eishun Yokozeki, Tokyo City University, Japan T3-3: Souta Sugiyama, Tokyo City University, Japan
	11:15 – 11:25	Break
	11:25 – 12:15	Keynote: - Chair: TBD K-3: "Advanced Approach for Autonomous Network at NTT R&D" Mr. Kenichi Tayama, NTT Access Network Service Systems Laboratories, Japan
	12:15 – 13:30	Lunch Break & Exhibition
	13:30 – 14:10	Sponsor Session: - Chair: TBD B-1: Ryuta Murakami, Keio University, Japan B-2: Takafumi Fukatani, NTT, Japan
	14:10 – 15:00	Exhibition
	15:00 – 16:30	Special Panel Session: Theme: Innovative Optical Technology Moderator: - Ved P. Kafile, NICT, Japan Panelists: - Kazunori Mukasa, Furukawa Electric Co., Ltd., Japan - Morio Takahashi, NEC Corporation, Japan - Ben Puttnam, NICT, Japan
16:30 – 16:50	Closing - Satoru Okamoto, Keio University, Japan	

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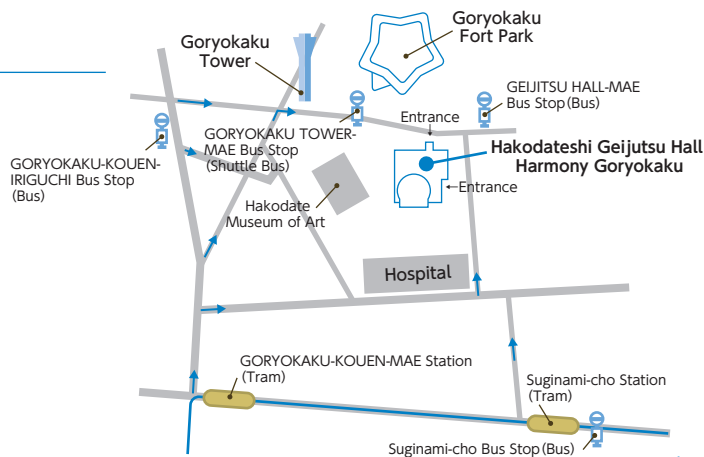


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LOCATION

Hakodate Performing Arts Center,
37-8 Goryokakucho, Hakodate,
Hokkaido 040-0001, Japan



<https://www.pilab.jp/ipop2024/>