Propose holding IEEE Information Theory Workshop:

- in Kanazawa, Japan,
- on October 17–21, 2021
- at Kanazawa Bunka Hall.
Kenrokuen Garden is one of the “Three Great Gardens of Japan”

Higashi Tea House District — Historical shops and homes, geisha performances

Shirakawa-go — UNESCO world heritage site, isolated village developed unique culture and architecture (75 km)

Myoruiji “Nijina Temple” with its many secret passages and hidden doors

Modern Art at 21st Century Museum of Contemporary Art
Kanazawa means “marsh of gold.” Gold leaf is one of many Kanazawa traditional crafts.

Omicho Market — large fish market surrounded by sushi restaurants

Chirashi zushi is sushi, but not as you know it

Shopping for Kanazawa crafts, Kudani pottery

Wagashi — Japanese sweets, beautiful to behold and not too sweet

Oh, the Seafood is Delicious!
In March 2015, new high-speed rail service to Kanazawa opened (2 h 37 m to Tokyo)

Substantial increase in tourism, hotel availability, English-language info (2.9 million visitors in 2016)

Coverage by US and UK media
Organizing Committee

GENERAL CO-CHAIRS
- Brian M Kurkoski, Japan Advanced Institute of Science and Technology (JAIST)
- Tadashi Wadayama, Nagoya Institute of Technology
- Shun Watanabe, Tokyo University of Agriculture and Technology

FINANCE
- Shigeaki Kuzuoka, Wakayama University

PUBLICITY
- Takayuki Nozaki, Yamaguchi University
- Elsa Dupraz, IMT Atlantique

PUBLICATIONS
- Kazushi Mimura, Hiroshima City University

REGISTRATION
- Akiko Manada, Shonan Institute of Technology
TECHNICAL PROGRAM CO-CHAIRS

- Jakob Hoydis, Nokia Bell Labs
- Mitsugu Iwamoto, The University of Electro-Communications
- Krishna Narayanan, Texas A&M University
- Vincent Y. F. Tan, National University of Singapore

TPC SECRETARY (EDAS MASTER)

- Hideki Yagi, The University of Electro-Communications

Spread reviewing work over four TPC co-chairs, plus someone responsible for EDAS.
Diverse organizations are more creative, perform better, and have higher satisfaction of their members. While the IEEE has been struggling to attract and retain diverse members, the IEEE Information Theory Society is energetically promoting diversity.

In the ITW 2021 proposal, there are four TPC co-chairs, none of whom are female. In selecting the TPC co-chairs, we desired and discussed diversity of gender, technical areas and geography. We achieved technical area and geographical diversity, but not gender diversity. We attribute this to our over-emphasis on the other two types of diversity, as well as the constraint of inviting TPC co-chairs whom at least one of the us already knew well enough.

To address this shortcoming, the TPC co-chairs have been encouraged to recruit plenary speakers, invited session organizers and TPC members taking into account gender diversity. The organizing committee currently consists of 8 people, 2 of whom are female.

We welcome comments from the IT Society Conference Committee and the Board of Governors on how we can further increase the gender diversity of ITW 2021.
Low-Latency Communications

- Low latency communications in multi-user information theory
- Low latency communications for wireless applications
- Application of low latency communications techniques

Information Theoretic Security

- Physical layer security
- Secure computation under information-theoretic security
- Information-theoretic security for privacy

Machine Learning for Communications

- Neural networks for communication systems
- Machine learning-based transceiver algorithms
- Information-theoretical understanding of deep learning

Codes in the Cloud

- Coded computation
- Private information Retrieval
- Distributed Storage
## Proposed Program

<table>
<thead>
<tr>
<th>Time</th>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
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</thead>
<tbody>
<tr>
<td>9:00 to 10:00</td>
<td>Plenary: Machine Learning for Communications</td>
<td>Plenary: Low-latency communications</td>
<td>Plenary: Information-Theoretic Security</td>
<td>Plenary: Codes in the Cloud</td>
<td></td>
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<tr>
<td>10:00 to 10:30</td>
<td>Coffee Break</td>
<td>Coffee Break</td>
<td>Coffee Break</td>
<td>Coffee Break</td>
<td>Coffee Break</td>
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<tr>
<td>10:30 to 12:10</td>
<td>Invited session: Machine Learning for Communications</td>
<td>Invited session: Low-Latency Communications</td>
<td>Regular Session</td>
<td>Invited Session: Information-Theoretic Security</td>
<td>Invited Session: Codes in the Cloud</td>
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<tr>
<td>12:10 to 13:40</td>
<td>Lunch break</td>
<td></td>
<td></td>
<td>Regular Session</td>
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<tr>
<td>13:40 to 15:20</td>
<td>Regular Session</td>
<td>Regular Session</td>
<td></td>
<td>Regular Session</td>
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<tr>
<td>15:20 to 15:50</td>
<td>Coffee Break</td>
<td></td>
<td></td>
<td>Coffee Break</td>
<td>Coffee Break</td>
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<tr>
<td>15:50 to 17:30</td>
<td>Regular Session</td>
<td>Regular Session</td>
<td></td>
<td>Regular Session</td>
<td>Regular Session</td>
</tr>
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</table>

**Welcome Reception**
17:30–20:30

**Banquet**
19:00–22:00

4 plenary presentations (60 min each), 20 invited presentations (20 min each), 80 regular presentations (20 min each)

Following the success of ITW 2018, we are considering adding two tutorials on Sunday.
Venue: Kanazawa Bunka Hall

- Centrally located in Kanazawa
- Many restaurants and hotels within walking distance
- All meeting rooms on same floor
- Additional third session room possible

Large Meeting Room, seats 210
Meeting Rooms 5–6, seats 93
Spacious coffee break space
Concert Hall, seats 900
Unlikely we will use
## IT Society Members

<table>
<thead>
<tr>
<th></th>
<th>JPY</th>
<th>USD</th>
</tr>
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<tbody>
<tr>
<td>Regular</td>
<td>¥60,000</td>
<td>$540</td>
</tr>
<tr>
<td>Student</td>
<td>¥36,000</td>
<td>$330</td>
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## IEEE Members

<table>
<thead>
<tr>
<th></th>
<th>JPY</th>
<th>USD</th>
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<tbody>
<tr>
<td>Regular</td>
<td>¥71,000</td>
<td>$640</td>
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<tr>
<td>Student</td>
<td>¥42,600</td>
<td>$390</td>
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</table>

1 USD = 110.5 JPY

### Historical ITW Registration Fees

<table>
<thead>
<tr>
<th></th>
<th>USD</th>
<th>student rate</th>
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<tbody>
<tr>
<td>2014 Tasmania</td>
<td>400</td>
<td>64%</td>
</tr>
<tr>
<td>2021 Kanazawa</td>
<td>540</td>
<td>60%</td>
</tr>
<tr>
<td>2019 Gotland</td>
<td>540</td>
<td>70%</td>
</tr>
<tr>
<td>2017 Kaohsiung</td>
<td>580</td>
<td>37%</td>
</tr>
<tr>
<td>2018 Guangzhou</td>
<td>590</td>
<td>56%</td>
</tr>
<tr>
<td>2016 Cambridge</td>
<td>750</td>
<td>74%</td>
</tr>
</tbody>
</table>
Budget surplus of 15%
¥11,220,400 – ¥4,800,000 – ¥4,692,000
= 1,728,400 JPY (17,000 USD)

170 Participants (based on ITW 2017)
1 USD = 110.5 JPY

Low-cost venue is a city-run facility

Venue rental fee includes AV and WiFi

Details in “Budget ITW 2021.xls”

Also, in-kind preliminary organization support provided by Kanazawa Convention Bureau.
Getting to Kanazawa

**By Air** Komatsu Airport has direct flights from
- Tokyo/Haneda 1 hr (10 flights/day)
- Tokyo/Narita 1 hr (1 flight/day)
- Seoul 1 hr 45 min (3 flights/week)
- Shanghai 2 hr 45 min (4 flights/week)
- Taipei 3 hr 20 min (1 flight/day)
- Hong Kong 4 hr 15 min (2 flights/week)

Airport bus from Komatsu to Kanazawa is 40 min (10 USD)

**By Train** Kanazawa Station from:
- Tokyo Station (2 hr 37 min, 130 USD) high-speed rail
- Osaka Station (2 hr 39 min, 70 USD) express train
Many hotels within walking distance of venue, variety of prices

<table>
<thead>
<tr>
<th>Hotel</th>
<th>Distance</th>
<th>Price/night*</th>
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<tbody>
<tr>
<td>Kanazawa Tokyu Hotel</td>
<td>650 m</td>
<td>21,300 JPY</td>
</tr>
<tr>
<td>Mitsui Garden Hotel Kanazawa</td>
<td>400 m</td>
<td>15,700 JPY</td>
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<tr>
<td>Hotel Trusty Kanazawa Korinbo</td>
<td>350 m</td>
<td>11,800 JPY</td>
</tr>
<tr>
<td>Kanazawa New Grand Hotel</td>
<td>50 m</td>
<td>9,300 JPY</td>
</tr>
<tr>
<td>UNIZO Inn Kanazawa Hyakumangoku Dori</td>
<td>550 m</td>
<td>6,800 JPY</td>
</tr>
<tr>
<td>Toyoko Inn Kanazawa Kenrokuen Korinbo</td>
<td>300 m</td>
<td>5,700 JPY</td>
</tr>
<tr>
<td>First Cabin Kanazawa</td>
<td>400 m</td>
<td>5,300 JPY</td>
</tr>
</tbody>
</table>

*Including tax and breakfast, single occupancy, hotels.com as of April 2019

Venue and hotels are centrally located to restaurants and nightlife.
## Preliminary Timeline

<table>
<thead>
<tr>
<th>Task</th>
<th>Date</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Register with IEEE, MOU</td>
<td>August 2019</td>
<td></td>
</tr>
<tr>
<td>Web site, CFP</td>
<td>June 2020</td>
<td>distribute CFP at ISIT 2020</td>
</tr>
<tr>
<td>Finalize venue contract</td>
<td>October 2020</td>
<td></td>
</tr>
<tr>
<td>Plenary speakers confirmed</td>
<td>January 2021</td>
<td></td>
</tr>
<tr>
<td>EDAS open</td>
<td>February 2021</td>
<td></td>
</tr>
<tr>
<td>TPC formed, invited session chairs</td>
<td>February 2021</td>
<td></td>
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<tr>
<td>Paper Submission</td>
<td>April 2021</td>
<td>after ISIT 2021 acceptance notification</td>
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<tr>
<td>Registration Open</td>
<td>June 2021</td>
<td></td>
</tr>
<tr>
<td>Acceptance Notification</td>
<td>July 2021</td>
<td></td>
</tr>
<tr>
<td>Final Manuscript</td>
<td>August 2021</td>
<td></td>
</tr>
<tr>
<td>ITW Kanazawa</td>
<td>October 17–21, 2021</td>
<td></td>
</tr>
</tbody>
</table>
The information theory community in Japan is called “SITA”

SITA organizes

- annual symposium, SITA, in Japan
- biannual international symposium, ISITA, in various countries

People in SITA hosted

ISIT 1988 (Kobe), ITW 1993 (Shizuoka), ISIT 2003 (Yokohama), and ITW 2005 (Awaji)

Therefore, we have a lot of know-how on hosting conferences