# **PROGRAM GUIDE**

# **EIDWT-2020**

The 8-th International Conference on Emerging Internet, Data & Web Technologies



# Sponsored by:









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Fukuoka Institute of Technology

Kitakyushu International Conference Center, Kitakyushu, Japan

February 24-26, 2020

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## **EIDWT-2020 Organizing Committee**

#### **Honorary Chair**

Makoto Takizawa, Hosei University, Japan

#### **General Co-Chairs**

Yoshihiro Okada, Kyushu University, Japan Flora Amato, Naples University Frederico II, Italy Wenny Rahayu, La Trobe University, Australia

#### **Program Co-Chairs**

Tomoya Enokido, Rissho University, Japan Zahoor Khan, Higher Colleges of Technology, UAE Juggapong Natwichai, Chiang Mai University, Thailand

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#### **Local Organizing Co-Chairs**

Keita Matsuo, Fukuoka Institute of Technology, Japan Tomoyuki Ishida, Fukuoka Institute of Technology, Japan Donald Elmazi, Fukuoka Institute of Technology, Japan

#### Web Administrators

Miralda Cuka, Fukuoka Institute of Technology (FIT), Japan Kevin Bylykbashi, Fukuoka Institute of Technology (FIT), Japan

#### **Finance Chair**

Makoto Ikeda, Fukuoka Institute of Technology (FIT), Japan

#### **Steering Committee Chair**

Leonard Barolli, Fukuoka Institute of Technology (FIT), Japan

#### Welcome Message of EIDWT-2020 International Conference Organizers

Welcome to the 8-th International Conference on Emerging Internet, Data and Web Technologies (EIDWT-2020), which will be held from February 24 to February 26, 2020 at Kitakyushu International Conference Center, Kitakyushu, Japan.

The EIDWT is dedicated to the dissemination of original contributions that are related to the theories, practices and concepts of emerging Internet and data technologies yet most importantly of their applicability in business and academia towards a collective intelligence approach.

In EIDWT-2020 will be discussed topics related to Information Networking, Data Centres, Data Grids, Clouds, Crowds, Mashups, Social Networks, Security Issues and other Web 2.0 implementations towards a collaborative and collective intelligence approach leading to advancements of virtual organizations and their user communities. This is because, current and future Web and Web 2.0 implementations will store and continuously produce a vast amount of data, which if combined and analyzed through a collective intelligence manner will make a difference in the organizational settings and their user communities. Thus, the scope of EIDWT-2020 includes methods and practices which bring various emerging Internet and data technologies together to capture, integrate, analyze, mine, annotate and visualize data in a meaningful and collaborative manner. Finally, EIDWT-2020 aims to provide a forum for original discussion and prompt future directions in the area. For EIDWT-2020 International Conference, we accepted for presentation 57 papers (about 30% acceptance ratio).

An international conference requires the support and help of many people. A lot of people have helped and worked hard for a successful EIDWT-2020 technical program and conference proceedings. First, we would like to thank all authors for submitting their papers. We are indebted to Program Area chairs, Program Committee members and reviewers who carried out the most difficult work of carefully evaluating the submitted papers. We would like to give our special thanks to Honorary Chair of EIDWT-2020 Prof. Makoto Takizawa, Hosei University, Japan for his guidance and support. We would like to express our appreciation to our keynote speakers for accepting our invitation and delivering very interesting keynotes at the conference.

We would like to thank Tateisi Science and Technology Foundation, City of Kitakyushu and Kitakyushu Convention & Visitors Association for financial support.

We would like as well to thank the Local Arrangements Chairs for making excellent local arrangements for the conference. We hope you will enjoy the conference and have a great time in Kitakyushu, Japan.

#### **EIDWT-2020 International Conference Organizers**

#### **EIDWT-2020 Steering Committee Chair**

Leonard Barolli, Fukuoka Institute of Technology (FIT), Japan

#### **EIDWT-2020 General Co-Chairs**

Yoshihiro Okada, Kyushu University, Japan Flora Amato, University of Naples "Frederico II", Italy Wenny Rahayu, La Trobe University, Australia

#### **EIDWT-2020 Program Committee Co-Chairs**

Tomoya Enokido, Rissho University, Japan Zahoor Khan, Higher Colleges of Technology, UAE Juggapong Natwichai, Chiang Mai University, Thailand





Prof. Hiroyoshi Miwa, Kwansei Gakuin University, Sanda City, Hyogo Prefecture, Japan

Title: Delay Tolerant Networking Technology and Disaster Management - Theoretical and Practical Aspects of DTN Technology

Abstract: Immediately after a large-scale disaster such as the Great East Japan Earthquake in 2011 struck, both wired and wireless communications do not work at all in the affected area. However, in such an environment, keeping communications and sharing information are absolutely imperative. Delay/Disruption/Disconnect Tolerant Networking (DTN) is the technology that establishes communications in an environment characterized by lack of continuous connectivity, high loss rates, and long propagation delays. A routing scheme, store-carry-forward, in which a mobile node first stores a message, carries it while moving, and then forwards it to either an intermediate node or the destination node, is essential for DTN. The store-carry-forward routing scheme makes use of opportunistic communication based on human serendipitous encounters which human mobility patterns causes. Recently, interesting knowledge about human mobility patterns and serendipitous encounters was found. A human mobility model which is consistent with the found properties was proposed. We can design an efficient algorithm for the storecarry-forward routing scheme by considering the mathematical mobility model. This is an example that theoretical knowledge and results can solve a practical problem. The optimization theory and the probability theory are useful also in the disaster management. In this talk, we introduce our theoretical and practical knowledge for the DTN technology.





Prof. Leonard Barolli, Fukuoka Institute of Technology, Japan

Title: IoT Device Selection in Opportunistic Networks: Implementation and Performance Evaluation of Fuzzy-based Intelligent Systems and a Testbed

**Abstract:** In Opportunistic Networks (OppNets) the contacts of Internet of Things (IoT) devices (nodes) are intermittent and links are highly variable. Upon receiving a message a device will store it in the buffer until another node comes in the transmission range and a forwarding opportunity exists. The IoT network consists of connected physical objects and devices with high mobility. By using the mobility of IoT devices, the OppNets provide a self-organizing network as a communication opportunity. The IoT devices generate and exchange a huge amount of data through heterogeneous networks and OppNets ease the concept of heterogeneity with their independence on decentralized infrastructure. The IoT network consists of different devices with different resource capabilities. When multiple IoT devices are deployed densely, there is a possibility that a node may reside in the coverage area of multiple devices. Thus, when a task requires an IoT device to complete it, it is very important to find the best device for that specific request. The IoT devices should be selected based on different parameters in order to achieve better network connectivity, stability and user coverage. In OppNets an end-to-end path between source and destination may not exist and network partitions occur. Some of the most common issues for OppNets are energy consumption, storage constraint, contact opportunity and finding an optimal and robust topology of the network devices to support connectivity services to events. To deal with these issues many parameters should be considered which make the problem NP-Hard. Thus, the heuristic and intelligent algorithms are good solutions. We consider IoT device selection in OppNets and propose new parameters and implement different intelligent systems based on Fuzzy Logic (FL). The proposed systems can be used in different environments and applications.



### Monday, February 24, 2020

#### **10:00-11:00 Registration**

## 11:00-12:00 Single Session: Opening and Keynote Talk I

#### **Keynote Talk I (PLENARY ROOM)**

Prof. Hiroyoshi Miwa, Kwansei Gakuin University, Sanda City, Hyogo Prefecture, Japan Title: Delay Tolerant Networking Technology and Disaster Management - Theoretical and Practical Aspects of DTN Technology

## 12:00-13:00 Lunch 13:00-15:00 Parallel Sessions

#### **EIDWT-S1: Intelligent Algorithms and Systems**

#### Chair: Shinji Sakamoto, Seikei University, Japan

- Performance Evaluation of WMNs Using a Hybrid Intelligent System Based on Particle Swarm Optimization and Hill Climbing Considering Different Number of Iterations
   Shinji Sakamoto, Seiji Ohara, Leonard Barolli and Shusuke Okamoto
- 2. Performance Evaluation of WMNs using WMN-PSOHC-DGA Considering Evolution Steps and Computation Time
  - Admir Barolli, Shinji Sakamoto, Seiji Ohara, Leonard Barolli and Makoto Takizawa
- 3. Performance Evaluation of WMN-PSODGA Hybrid Simulation System for Node Placement Problem Considering Normal Distribution and Different Fitness Functions
  Seiji Ohara, Admir Barolli, Phudit Ampririt, Shinji Sakamoto, Leonard Barolli and Makoto Takizawa
- 4. Genetic Algorithm Based Bi-directional Generative Adversary Network for LIBOR Prediction *Xiao Tan*
- 5. A Fuzzy-based Decision System for Sightseeing Spots Considering Natural Scenery and Visiting Cost as New Parameters
  - Yi Liu, Phudit Ampririt, Ermioni Qafzezi, Kevin Bylykbashi, Leonard Barolli, Makoto Takizawa

#### **EIDWT-S2: Security and Privacy**

#### Chair: JongWon Kim, Gwangju Institute of Science and Technology, Korea

eBPF/XDP Based Network Traffic Visualization and DoS Mitigation for Intelligent Service Protection

YoungEun Choe, Jun-Sik Shin, Seunghyung Lee, JongWon Kim

2. 3-Party Adversarial Cryptography

Ishak Meraouche, Sabyasachi Dutta and Kouichi Sakurai

3. Classification of Malicious Domains by Their Lifetime Daiji Hara, Kouichi Sakurai, Yasuo Musashi

4. Identification of Manual Alphabets Based Gestures Using s-EMG for Realizing User Authentication Hisaaki Yamaba, Shotaro Usuzaki, Kayoko Takatsuka, Kentaro Aburada, Tetsuro Katayama, Mirang Park, Naonobu Okazaki

#### **EIDWT-S3: Mobile Communication Systems**

#### Chair: Hiroshi Maeda, Fukuoka Institute of Technology, Japan

 A Beam Power Allocating Method for Ka-band Multi-beam Broadcasting Satellite Based on Meteorological Data

Takumi Iwamoto and Kiyotaka Fujisaki

2. Input Amplitude Dependency of Duplexer with Dispersive and Nonlinear Dielectric in 2D Photonic Crystal Waveguide

Naoki Higashinaka, Hiroshi Maeda

3. Implementations on Static Body Detections by Locational Sensors on Mobile Phone for Disaster Information System

Noriki Uchida, Misaki Fukumoto, Tomoyuki Ishida, Yoshitaka Shibata

4. Evaluation of End-to-End Performance on N-wavelength V2X Cognitive Wireless System Designed for Exchanging Road State Information

Akira Sakuraba, Yoshitaka Shibata Goshi Sato, Noriki Uchida

## 15:00-15:30 Coffee Break

#### 15:30-17:30 Parallel Sessions

#### **EIDWT-S4: Data Processing and Machine Learning**

#### Chair: Makoto Ikeda, Fukuoka Institute of Technology, Japan

- 1. Performance Evaluation of VegeCare Tool for Insect Pest Classification with Different Life Cycles *Natwadee Ruedeeniraman, Makoto Ikeda, Leonard Barolli*
- 2. DevOps Portal Design for SmartX AI Cluster Employing Cloud-native Machine Learning Workflows GeumSeong Yoon, Jungsu Han, Seunghyung Lee, JongWon Kim

- 3. Evaluation of Parallel Data Transmission in the Mobile Fog Computing Model Kosuke Gima, Takumi Saito, Ryuji Oma, Shigenari Nakamura, Tomoya Enokido, Makoto Takizawa
- 4. Cognitive Approaches for Sensor Data Analysis in Transformative Computing *Marek R. Ogiela and Lidia Ogiela*
- Recognition of Historical Characters by Combination of Method Detecting Character in Photo Image of Document and Method Separating Block to Characters Liao Sichao and Hiroyoshi Miwa

#### **EIDWT-S5: DTNs and Vehicular Applications**

#### Chair: Naohiro Hyashibara, Kyoto Sangyo University, Japan

- Effect of Driver's Condition for Driving Risk Measurement in VANETs: A Comparison Study of Simulation and Experimental Results
  - Kevin Bylykbashi, Ermioni Qafzezi, Makoto Ikeda, Keita Matsuo, Leonard Barolli
- 2. Resource Management in SDN-VANETs: Coordination of Cloud-Fog-Edge Resources Using Fuzzy Logic
  - Ermioni Qafzezi, Kevin Bylykbashi, Tomoyuki Ishida, Keita Matsuo, Leonard Barolli, Makoto Takizawa
- 3. Human Mobility and Message Caching in Opportunistic Networks Tomoyuki Sueda and Naohiro Hayashibara
- 4. Development and Evaluation of Road State Information Platform based on Various Environmental Sensors in Snow Countries
  - Yoshitaka Shibata, Yoshikazu Arai, Yoshiya Saito, Jun Hakura
- 5. Hybrid Type DTN Routing Protocol Considering Storage Capacity Kenta Henmi, Akio Koyama

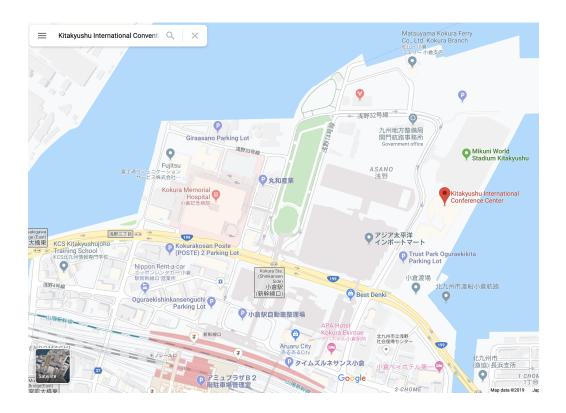
#### **EIDWT-S6: Multimedia and Web Applications**

#### Chair: Yoshihiro Okada, Kyushu University, Japan

- 1. A Multi-Modal Interface for Control of Omnidirectional Video Playing on Head Mount Display *Yusi Machidori, Ko Takayama and Kaoru Sugita*
- 2. IntelligentBox for Web-based VR Applications (WebIBVR) and Its Collaborative Virtual Environments
  - Yoshihiro Okada and Taiki Ura
- 3. A Framework for Automatically Generating IoT Security Quizzes in 360VR Images/Videos Based on Linked Data
  - Wei Shi, Tianhao Gao, Srishti Kulshrestha, Ranjan Bose, Akira Haga, Yoshihiro Okada
- 4. An Approach of Usability Testing for Web User Interface through Interaction Flow Modeling Language (IFML) Models
  - Muhammad Talha Riaz, Farooque Azam, Nazish Yousaf, Muhammad Waseem Anwar and Adil Aziz
- 5. Proposal of an Interactive Brainstorming Environment for Various Content Sharing and Meeting Progress
  - Ryo Nakai, Tomoyuki Ishida

## 18:00-20:00 Welcome Reception Party

- Location of Reception Party: Event Hall (1st Floor) "Kitakyushu International Conference Center, Kitakyushu, Japan "
- Address: "3 Chome-9-30 Asano, Kokurakita Ward, Kitakyushu, Fukuoka 802-0001"



#### Tuesday, February 25, 2020

#### 10:00 Registration

## 11:00-12:00 Single Session: Keynote Talk II

#### **Keynote Talk II (PLENARY ROOM)**

Prof. Leonard Barolli, Fukuoka Institute of Technology, Japan

Title: IoT Device Selection in Opportunistic Networks: Implementation and Performance Evaluation of Fuzzy-based Intelligent Systems and a Testbed

#### 12:00-13:00 Lunch

#### 13:00-15:00 Parallel Sessions

#### **EIDWT-S7: IoT Applications**

#### Chair: Keita Matsuo, Fukuoka Institute of Technology, Japan

- A Dynamic Tree-based Fog Computing (DTBFC) Model for the Energy-efficient IoT Ryuji Oma, Shigenari Nakamura, Tomoya Enokido, and Makoto Takizawa
- 2. IoT Node Selection in Opportunistic Networks: A Fuzzy-based Approach Considering Node's Successful Delivery Ratio (NSDR) as a New Parameter

Miralda Cuka, Donald Elmazi, Makoto Ikeda, Keita Matsuo, Leonard Barolli

3. A Management System for Electric Wheelchair Considering Agile-Kanban Using IoT Sensors and Scikit-learn

Takeru Kurita, Keita Matsuo and Leonard Barolli

4. PACKUARIUM: Network Packet Visualization Using Mixed Reality for Detecting Bot IoT Device of DDoS Attack

Kosuke Kaneko, Yusuke Tsutsumi, Subodh Sharma, Yoshihiro Okada

5. Blockchain for IoT-Based Digital Supply Chain: A Survey

Haibo Zhang and Kouichi Sakurai

#### **EIDWT-S8: Network Protocols and Algorithms**

#### Chair: Tomoya Enokido, Rissho University, Japan

Topic-Based Subgroups for Reducing Messages Exchanged Among Subgroups
 *Takumi Saito, Shigenari Nakamura, Tomoya Enokido, and Makoto Takizawa*

2. Evaluation of a TBOI (Time-Based Operation Interruption) Protocol to Prevent Late Information Flow in the IoT

Shigenari Nakamura, Tomoya Enokido, and Makoto Takizawa

3. The Improved Redundant Energy Consumption Laxity-Based Algorithm with Differentiating Starting Time of Process Replicas

Tomoya Enokido and Makoto Takizawa

- 4. Optimization Problem for Network Design by Link Protection and Link Augmentation *Hiroki Yano and Hiroyoshi Miwa*
- 5. Classification and Regression Based Methods for Short Term Load and Price Forecasting: A Survey Hira Gul, Arooj Arif, Sahiba Fareed, Mubbashra Anwar, Afrah Naeem, Nadeem Javaid

#### **EIDWT-S9: E-Learning Systems and Data Analytics**

#### Chair: Juggapong Natwichai, Chiang Mai University, Thailand

- Judging Students' Learning Style from Big Video Data Using Neural Network Noriyasu Yamamoto
- 2. Automatic Generation of E-Learning Contents Based on Deep Learning and Natural Language Processing Techniques

Yiyi Wang, Koji Okamura

- 3. A Handover Challenge of Data Analytics: Multi-user Issues in Sustainable Data Analytics *Toshihiko Yamakami*
- 4. A Study for Semi-supervised Learning with Random Erasing

Yuuhi Okahana and Yusuke Gotoh

5. Electricity Price and Load Forecasting using Data Analytics in Smart Grid: A Survey Mubbashra Anwar, Afrah Naeem, Hira Gul, Arooj Arif, Sahiba Fareed, and Nadeem Javaid

#### 15:00-15:30 Coffee Break

## 15:30-17:30 Parallel Sessions

## **EIDWT-S10: Wireless and Mobile Networking**

## Chair: Makoto Takizawa, Hosei University, Japan

- 1. A Software-oriented Approach to Energy-efficiently Unicasting Messages in Wireless Ad-hoc Networks
  - Ryota Sakai, Takumi Saito, Ryuji Oma, Shigenari Nakamura, Tomoya Enokido, Makoto Takizawa
- 2. A DQN Based Mobile Actor Node Control in WSAN: Simulation Results of Different Distributions of Events Considering Three-dimensional Environment *Kyohei Toyoshima, Tetsuya Oda, Masaharu Hirota, Kengo Katayama, Leonard Barolli*

3. A Fuzzy-Based System for Admission Control in 5G Wireless Networks Considering Software-Defined Network Approach

Phudit Ampririt, Seiji Ohara, Yi Liu, Makoto Ikeda, Hiroshi Maeda, Leonard Barolli

4. A Fuzzy-based System for Actor Node Selection in WSANs Considering Task Accomplishment Time as a New Parameter

Donald Elmazi, Miralda Cuka, Makoto Ikeda, Keita Matsuo, Leonard Barolli, Makoto Takizawa

#### **EIDWT-S11: Distributed and Parallel Processing**

#### Chair: Fang-Yie Leu, Tunghai University, Taiwan

- 1. The Study on AUSF Fault Tolerance Wei-Sheng Chen, Fang-Yie Leu
- 2. Design of a DSL for Converting Rust Programming Language into RTL *Keisuke Takano, Tetsuya Oda, Masaki Kohata*
- 3. A Knapsack Problem Based Algorithm for Local Level Management in Smart Grid *Usman Ali, Usman Qamar, Kanwal Wahab, Khawaja Sarmad Arif*
- 4. Transformative Computing in Knowledge Extraction and Service Management Processes *Lidia Ogiela, Makoto Takizawa, Urszula Ogiela*
- 5. A Privacy Threat Model in XR Applications *Toshihiko Yamakami*

#### **EIDWT-S12: Cloud and Edge Computing**

#### Chair: Kangbin Yim, Soonchunhyang University, Korea

- 1. Workflow Improvement for KubeFlow DL Performance over Cloud-native SmartX AI Cluster *Yujin Hong and JongWon Kim*
- 2. A Study on Access Control Scheme Based on ABE Using Searchable Encryption in Cloud Environment

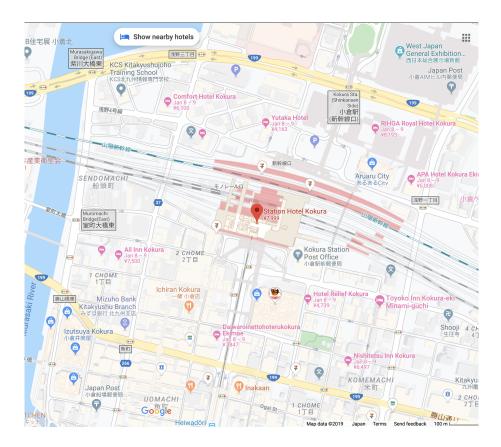
Yong-Woon Hwang, Im-Yeong Lee, Kangbin Yim

- 3. Secure Public Cloud Storage Auditing with Deduplication: More Efficient and Secure *Jiasen Liu, Xu An Wang, Kaiyang Zhao, Han Wang*
- 4. Subtree-based Fog Computing in the TWTBFC Model

  Yinzhe Guo, Takumi Saito, Ryuji Oma, Shigenari Nakamura, Tomoya Enokido, Makoto Takizawa
- 5. Usage-Oriented Resource Allocation Strategy in Edge Computing Environments Tsu-Hao Hsieh, Kuan-Yu Ho, Meng-Yo Tsai, and Kuan-Chou Lai

#### 18:00-20:00 Banquet Party

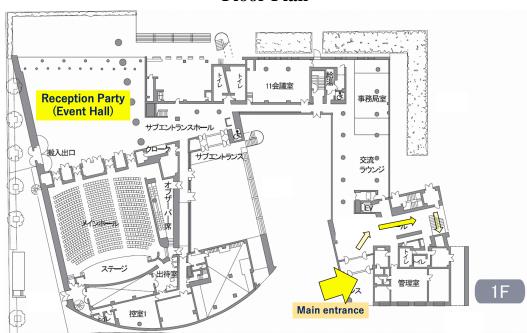
- Location of Banquet Party: JR Kyushu Station Hotel Kokura
- Address: 1-1-1, Asano, Kokura-kita-ku, Kitakyushu City, 802-0001, Japan

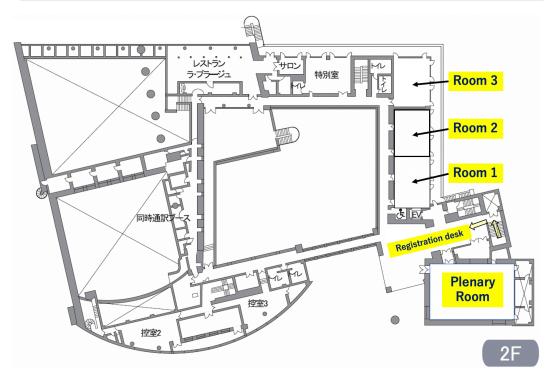


Wednesday, February 26, 2020

**EIDWT-2020 Organizing Committee Meeting and Discussion** 

# Floor Plan





## EIDWT-2020 Session Schedule February 24-26, 2020

## Kitakyushu International Convention Center, Kitakyushu, Japan

Monday (Feb. 24, 2020)		ROOM 1	ROOM 2	ROOM 3
Slot	Time			
	10:00 – 11:00	Registration		
Keynote Talk	11:00 – 12:00	Opening Ceremony EIDWT-2019 Keynote I (Plenary Room)		
Lunch	12:00 – 13:00	Lunch		
Session 1	13:00 – 15:00	EIDWT S1	EIDWT S2	EIDWT S3
Coffee Break	15:00 – 15:30	Coffee Break		
Session 2	15:30 – 17:30	EIDWT S4	EIDWT S5	EIDWT S6
Event	18:00 – 20:00	Reception Party		

<u>Tuesday (Feb. 25, 2020)</u>		ROOM 1	ROOM 2	ROOM 3
Slot	Time			
	10:00 – 11:00	Registration		
Keynote Talk	11:00 – 12:00	EIDWT-2019 Keynote II (Plenary Room)		
Lunch	12:00 – 13:00	Lunch		
Session 1	13:00 – 15:00	EIDWT S7	EIDWT S8	EIDWT S9
Coffee Break	15:00 – 15:30	Coffee Break		
Session 2	15:30 – 17:30	EIDWT S10	EIDWT S11	EIDWT S12
Event	18:00 – 20:00	Banquet Party		

Wednesday (Feb. 26, 2020)		ROOM 1	ROOM 2	ROOM 3
Slot	Time			
		EIDWT-2020 Steering Committee Meeting and Discussion		