

# Final Programme

(As Performed)

## 2016 IERE – CLP-RI Hong Kong Workshop Smart Cities

- A Convergence of People, Technologies and Big Data



21 November (Monday) – 24 November (Thursday) 2016

Hong Kong SAR, China

Organized by:

CLP-RI and IERE

## **Outline Schedule:**

### **Monday, 21 November 2016**

18:00-21:00 Registration and Welcome Reception / Cocktail

### **Tuesday, 22 November 2016**

09:00-18:00 2016 IERE – CLP-RI Hong Kong Workshop (Day 1)

18:00-21:00 Dinner

### **Wednesday, 23 November 2016**

08:30-16:50 2016 IERE – CLP-RI Hong Kong Workshop (Day 2)

18:30-22:00 Social Event with Dinner (optional); Hosted by CLP

### **Thursday, 24 November 2016**

08:30-14:30 Technical visits (optional): Smart facilities in Hong Kong

## **General Theme: Smart Cities**

### **- A Convergence of People, Technologies and Big Data**

Rapid urbanization is now being considered one of the megatrends that will shape our future. The phenomenal growth of Information and Communication Technologies (ICT) being deployed in recent decades has provided ubiquitous connectivity, versatile applications and intelligent automation. The notion of smart cities has gradually emerged and global cities like Barcelona, Seattle, Yokohama, Seoul, Singapore and Hong Kong are embarking on building their own version of a smart city. Whilst there is no “one-size-fits-all” model for smart cities, they share some common attributes. The energy system represents the most fundamental and critical element that actually performs the work.

This IERE Workshop will focus on research and initiatives of how technologies, big data and their intelligent applications can bring together the people, their interactions with city facilities and infrastructure to make urban living safer, more convenient, efficient and comfortable. Although the definition of a smart city is constantly evolving, each city has its unique economic, aspirational and technological drivers that will define its version of a smart city. Ultimately, historical, cultural, political and social factors will also play a role in the final implementation. With this workshop, IERE hopes to contribute the sharing of international expertise, knowledge and experiences in building our cities of the future.

## Session Themes:

### Plenary Session

#### >Keynote Addresses

Mr. Kam-sing Wong

*(GBS, JP, Secretary for the Environment, HKSAR Government, Hong Kong)*

Dr. Satoshi Morozumi

*(Director General, Smart Community Department, New Energy and Industrial Technology Development Organization (NEDO), Japan)*

Prof. Seung Il Moon

*(President of Korea Electrical Engineering & Science Research Institute, Korea)*

#### >Special Session

Ms. Wai Fun Kee

*(Industrial Principal, TechVision, Frost & Sullivan, Malaysia)*

### Technical Session

#### Session 1: Interacting with People

With ubiquitous deployment of communication networks and intelligent applications continue to rise, many Smart-X, where the X can be meters, homes, buildings and communities etc., are emerging. Furthermore, mobility, environment and citizen could be the candidate of X. This session enable the sharing of how the Smart-X interacts with people and communities to bring new or added value for the realization of a Smart City. This session include:

- Resiliency of power grids against natural disasters and catastrophes
- Prediction for weather/climate impact
- Unique sensing method for realization Smart-X
- Development and application of microgrid/nanogrids
- Integration distributed energy resources to the grid
- Research and design of demand response aggregation system

## **Session 2: Enabling Technologies**

Advanced and new technologies are rapidly changing the landscape and business paradigm of conventional practices. What are the technologies that will smarten the city infrastructure, optimize and improve asset management? This session will focus on the development and integration of various technologies and systems to enhance different functions in a smart city. This session include:

- Development and introduction of IoT-based micro-grid
- Development and application of a smart distribution network
- Necessary technology for improving building efficiency
- Internet of things, smart sensors and applications

## **Session 3: Contribution of EV and Storage for Power System**

EV plays the role of improving CO<sub>2</sub> emissions for the transport sector. Once it is connected to the grid, EV works like a storage device/load. In this session, EV and storage devices are considered an important element of smart cities. This session include:

- Development of Electric Vehicle (EV) Charging System
- Current situation of EV Charging System in Asia
- Energy storage and applications in urbanized areas
- Large scale demonstration project of BESS

## **Session 4: Innovation & Future Technologies**

The realization of any smart cities depends on the continual effort to nurture innovative ideas and implement effective applications to provide a safer, more convenient, efficient and comfortable environment to work and live. This session enables the speakers to share their vision and research findings on innovative ideas and related matters. This session include:

- How to make the electric power industry greener and related area
- Renewable energy technologies
- Hydrogen Economy
- Evaluation the value of smart grid
- Development of regional virtual power plant
- Application of heat pump for home, building and town

## **Session 5: Big Data & Customer Interactions**

Big data comes in bulk with high speed and complex by nature. With the deployment of various Smart-X systems, managing the big data generated has to be efficient and using them intelligently for different applications also becomes a crucial factor for success. This session enables the sharing and discussion of big data management in the power sector in cities. This session include:

- Big data utilization and application to high density distribution/consumption area
- Analyzing load characteristics from big data
- Cost evaluation of smart meter
- PV generation estimation from big data
- Demand response

## **Moderated Panel Discussion**

~~Theme: Challenges and Solutions to build a Smart City with Smart Power Systems~~  
[Canceled]

## **Poster Session**

There is no poster session in this Workshop.

## **Who Should Attend?**

The workshop is intended for experts actively involved in the selected themes, from IERE members and non-members, as well as all those interested in the evolution of the electrical power industry and the technology development and business development opportunities associated to this evolution.

## Programme:

*Session structure and speakers may change according to the submission of contributions.*

### **IERE Welcome Reception**

*Monday, 21 November 2016*

*Regal Kowloon Hotel, 3rd Floor, Luxembourg Room I-III, Hong Kong*

- 18:00 – Registration
- 19:00 – 21:00 IERE Welcome Reception

### **2016 IERE - CLP-RI Hong Kong Workshop**

- Workshop Day 1 -

*Tuesday, 22 November 2016*

*(All day long) Regal Kowloon Hotel, 3rd Floor, 'Versailles Ballroom', Hong Kong*

- 08:30 – 09:00 Registration

## Opening Session

- 09:00 – 09:10 O-1 Opening Address  
*Mr. Gregory Tosen (Chair of IERE, South Africa)*
- 09:10 – 09:15 O-2 Welcome Address  
*Mrs. Betty Yuen (Group Director & Vice Chairman of CLP Power Hong Kong Limited, Hong Kong)*

## Keynote Addresses

- 09:15 – 09:35 K-1 'Climate-Smart City: Are you ready ?'  
*Mr. Kam-sing Wong*  
*(GBS, JP, Secretary for the Environment, HKSAR Government, Hong Kong)*
- 09:35 – 10:10 K-2 'Experience of NEDO Smart Community Demonstration'  
*Dr. Satoshi Morozumi*  
*(Director General, Smart Community Department, New Energy and Industrial Technology Development Organization (NEDO), Japan)*
- 10:10 – 10:45 K-3 'Challenges for the Future Energy in Korea'  
*Prof. Seung Il Moon*  
*(President of Korea Electrical Engineering & Science Research Institute, Korea)*
- 10:45 – 11:20 Coffee Break

## Special Session

- 11:20 – 11:40 P-1 ‘IERE Technology Foresight 2016’  
*Ms. Wai Fun Kee*  
(*Industry Principal, TechVision, Frost & Sullivan, Malaysia*)

## Session 1 : Interacting with People

*Chair person: Dr. Satoshi Morozumi, Director General, Smart Community Department, New Energy and Industrial Technology Development Organization (NEDO), Japan*

- 11:40 – 12:00 S1-1 ‘Lessons learned from the Great East Japan Earthquake - Restoration and Reconstruction of Power Facilities -’  
*Mr. Manabu Sakata*  
(*Manager of Power Grid R&D Group, R&D Center, Tohoku Electric Power Co., Inc., Japan*)
- 12:00 – 12:20 S1-2 ‘Climate Information Services in Hong Kong and Their Applications in Urban Living’  
*Dr. Tsz-cheung Lee*  
(*Senior Scientific Officer, Hong Kong Observatory, Hong Kong*)
- 12:20 – 12:40 S1-3 ‘Understanding the complexities and uncertainties of climate change for effective adaptation to changing extreme weather events’  
*Dr. Junichi Tsutsui.*  
(*Deputy Associate Vice President, Central Research Institute of Electric Power Industry (CRIEPI), Japan*)
- 12:40 – 14:00 Lunch Break

## Session 1 : Interacting with People (continued)

*Chair person: Dr. Satoshi Morozumi, Director General, Smart Community Department, New Energy and Industrial Technology Development Organization (NEDO), Japan*

- 14:00 – 14:20 S1-4 ‘Future power grid architectures - nanogrids to super grids’  
*Prof. David John Hill*  
(*Professor, Chair of Electrical Engineering, Department of Electrical and Electronic Engineering, The University of Hong Kong, Hong Kong*)



- 14:20 – 14:40 S1-5 ‘Multimodal Sensing for Thermal Comfort and Energy Saving in Smart Buildings’  
*Prof. Huihe Qiu*  
(Associate Head and Professor, Department of Mechanical and Aerospace Engineering, The Hong Kong University of Science & Technology, Hong Kong)
- 14:40 – 15:00 S1-6 ‘Development of KEPCO smart energy city operating system for integrating distributed energy resources’  
*Mr. Jong-Uk Lee*  
(Researcher, Microgrid & Distributed Resources Group, New Energy Business Lab., Research Institute, Korea Electric Power Corporation, Korea)
- 15:00 – 15:20 S1-7 ‘Research and Design about Information Interface of Demand Response Aggregation System based on the Internet Home Appliance’  
*Mr. Songsong Chen*  
(Engineer, Electricity Usage & Energy Efficiency Research Department, China Electric Power Research Institute (CEPRI), China)
- 15:20 – 15:40 S1-8 ‘Real-time Air Quality Forecasts down to Street Scales’  
*Prof. Jimmy Fung*  
(Professor and Head of Division of Environment, Hong Kong University of Science and Technology, Hong Kong)
- 15:40 – 16:00 Coffee Break

## Session 2 : Enabling Technologies

*Chair person: Mr. Eddie Zijian Wu, Director - Technical Services, Technical Services Department, PSBG, CLP Power Hong Kong Limited, Hong Kong*

- 16:00 – 16:20 S2-1 ‘Construction of IoT-based Campus Micro-grid Project in South Korea’  
*Prof. Dongjun Won*  
(Associate Professor, Department of Electrical Engineering, Inha University, Korea)
- 16:20 – 16:40 S2-2 ‘Enabling Technologies for Smart Cities’  
*Dr. Meikei Jeong*  
(Chief Technology Officer, Hong Kong Applied Science and Technology Research (ASTRI), Hong Kong)
- 16:40 – 17:00 S2-3 ‘Understanding Technology Enablers for Building Efficiency 2.0’  
*Mr. Alex Herceg*  
(Analyst, Intelligent Buildings, Lux Research, The Netherlands)



- 17:40 – 18:00 S2-4 ‘Building a Smarter Power Grid for Hong Kong’  
*Mr. Brian Tsui*  
(Deputy Director - Asset Development, Asset Management Department, Power System Business Group, CLP Power Hong Kong Limited, Hong Kong)
- 17:20 – 17:40 S2-5 ‘Indoor Positioning and User Analytics for a Smart City’  
*Prof. Gary Chan*  
(Professor, Department of Computer Science and Engineering, Hong Kong University of Science and Technology, Hong Kong)
- 17:00 – 17:20 S2-6 ‘ADMS+ creating and managing the next generation of Distribution Networks’  
*Mr. Sukumaran Santhosh*  
(Vice President and Head of Sales in Software Solutions, Digital Grid, Energy Management, Asia Pacific, Siemens Pte Limited, Singapore)
- 18:00 – 21:00 Dinner [Regal Kowloon Hotel, 3rd Floor, ‘Luxembourg Room I-III’]

## 2016 IERE - CLP-RI Hong Kong Workshop

- Workshop Day 2 -

*Wednesday, 23 November 2016*

*Regal Kowloon Hotel, 3rd Floor, ‘Tivoli’, Hong Kong*

08:15 – 08:30 Registration

### Session 3 : Contribution of EV and Storage for Power System

*Chair person: Dr. Dongxia Zhang, Deputy director, Technology Strategy Research Center, CEPRI, China*

- ~~08:30 – 08:50 S3-1 [Canceled] ‘Current Status of Chinese EV Charging Infrastructure Standardization’~~  
~~*Mr. Feng Ni*~~  
~~(Deputy Director, International Department, NARI Group, China)~~
- 08:30 – 08:50 S3-2 ‘Accelerating the popularization of electric and plug-in hybrid vehicles for realizing a low-carbon society in Japan’  
*Dr. Tomohiko Ikeya*  
(Associate Vice President, Materials Science Laboratory, Central Research Institute of Electric Power Industry (CRIEPI), Japan)

- 08:50 – 09:10 S3-3 ‘R&D and Deployment of Electric Vehicle Charging Infrastructure in Korea: Progresses and outlook’  
*Dr. Kijun Park*  
(Principal Researcher, Advanced technology & new materials group, Creative Future Laboratory, Research Institute, Korea Electric Power Corporation, Korea)
- 09:10 – 09:30 S3-4 ‘Optimal Charging and Discharging Scheduling of On-Board EV Chargers and ESS Considering Distribution Line Capacity, Building Load Imbalance and Peak Shaving’  
*Mr. Gyusub Lee*  
(Ph.D Candidate, Dept. of Electrical Engineering and Computer Science, Seoul National University, Korea)
- 09:30 – 09:50 S3-5 ‘Economic Operation of Battery Energy Storage System in Industrial Park Based on the Power Load Characteristics’  
*Mr. Guoxin He*  
(R&D Engineer, Technology Center, NARI Group Corporation (State Grid Electric Power Research Institute), China)
- 09:50 – 10:10 S3-6 ‘Demonstration Project Utilizing Hybrid Battery Energy Storage System in the Oki-Islands’  
*Mr. Motohiro Mikawa*  
(Manager, Energia Economic & Technical Research Institute, The Chugoku Electric Power Co., Inc., Japan)
- 10:10 – 10:45 Coffee Break

## Session 4 : Innovation & Future Technologies

*Chair person: Mr. Friedrich Schulte, R&D, Head of Technology/ R&D Strategy, innogy SE, Germany*

- 10:45 – 11:05 S4-1 ‘Development of countermeasure technology against biodiversity conservation regulations related to the electric power industry’  
*Dr. Sonoko Tsuda*  
(Manager, Energy Applications R&D Center, R&D Division, Chubu Electric Power Co., Inc., Japan)
- 11:05 – 11:25 S4-2 ‘Electric Springs – A Smart Grid Technology for Taming the Intermittent Nature of Wind and Solar Power’  
*Dr. Chi-Kwan Lee*  
(Assistant Professor, Department of Electrical and Electronic Engineering, The University of Hong Kong, Hong Kong)

- 11:25 – 11:45 S4-3 ‘Hydrogen – A zero-carbon energy vector for a change of energy systems management paradigm’  
*Dr. Laurent Jammes*  
(General Manager and Partner, YBL-Consulting, France)
- 11:45 – 12:05 S4-4 ‘How Green is A Smart Grid? A Multi-Agent Life-Cycle Approach’  
*Mr. Richard Wang*  
(Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University, Hong Kong)
- 12:05 – 12:25 S4-5 ‘A Structural Design of Regional Virtual Power Plant Specific to Industrial Development Area’  
*Mr. Yongchao Ji*  
(R&D Engineer, Technology Center, NARI Group Corporation (State Grid Electric Power Research Institute), China)
- 12:25 – 12:45 S4-6 ‘Experimental Investigation of a Photonic Radiative Cooler under Sub-tropical Climate’  
*Prof. Chi Yan Tso*  
(Research Assistant Professor, Department of Mechanical and Aerospace Engineering, and Institute for Advanced Study, The Hong Kong University of Science and Technology, Hong Kong)
- 12:45 – 14:00 Lunch Break

## Session 5 : Big Data & Customer Interactions

*Chair person: Mr. Andre Blumberg, Director - Information Technology, CLP Power Hong Kong Limited, Hong Kong*

- 14:00 – 14:20 S5-1 ‘NILM – Non Intrusive Load Monitoring’  
*Mr. Friedrich Schulte*  
(R&D, Head of Technology/ R&D Strategy, innogy SE, Germany)
- 14:20 – 14:40 S5-2 ‘Big Data in Urban Power Distribution and Consumption Systems’  
*Dr. Dongxia Zhang*  
(Deputy Director, Technology Strategy Research Center, China Electric Power Research Institute (CEPRI), China)
- 14:40 – 15:00 S5-3 ‘Life-cycle Quality Monitoring of Smart Meter and “Internet Plus Metering” Platform based on Big Data’  
*Mr. Hailong Zhang*  
(Engineer, Metering Research Department, China Electric Power Research Institute (CEPRI), China)

15:00 – 15:20 S5-4 ‘Solar Irradiance Forecast Methods using Meteorological Data for Photovoltaic Generation Prediction’  
*Mr. Satoshi Nomoto*  
(*Manager, Electric Power R&D Center, R&D Division, Chubu Electric Power Co., Inc., Japan*)

15:20 – 15:40 Coffee Break

15:40 – 16:00 S5-5 ‘Enabling Demand Response in Electricity Retail Markets with Energy Internet Technologies’  
*Dr. Jin Zhong*  
(*Associate Professor, Department of Electrical and Electronic Engineering, The University of Hong Kong, Hong Kong*)

16:00 – 16:20 S5-6 ‘Empowered consumer in the energy market & the role of innovative retailers’  
*Mr. Koen Noyens*  
(*Manager, Generation, Climate & Environment, EURELECTRIC, Belgium*)

16:20 – 16:40 S5-7 ‘Needs and Methods of Accurate Measurements and Forecasts for PV Power Output’  
*Mr. Masamoto Tatematsu*  
(*Senior Research Associate, Japan Electric Power Information Center (JEPIC), Japan*)

~~16:20 – 16:45 Coffee Break~~

### ~~Moderated panel discussion : Challenges and Solutions to build a Smart City with Smart Power Systems~~

~~16:45 – 17:30 Panel Discussion  
[Canceled]~~

### Closing Remarks

16:40 – 16:45 *Dr. John Wing Mao Cheng (Senior Manager, CLP Power Hong Kong Limited, Hong Kong)*

16:45 – 16:50 *Dr. Takao Watanabe (Secretary General, IERE Central Office)*

## Social Event (optional)

Tour to The Peak after dinner

18:30 – 20:30	Dinner at a restaurant nearby Regal Kowloon Hotel Restaurant “Shanghai Min” Tsim Sha Tsui Centre UG2-13 & 45-51
20:30	Departure at Regal Kowloon Hotel to The Peak by coach
21:15 –	Enjoy night view at The Peak
Around 22:00	Arrival at Regal Kowloon Hotel

- The maximum number of participants is up to 65.
- The Peak tour is optional.
- Admission will be allotted in order of application.
- Coach service is available between Regal Kowloon Hotel and The Peak.

## Technical Tour (Optional) - Workshop Day 3 -

*Thursday, 24 November 2016*

Hong Kong International Airport, Hong Kong

(For participants who have booked the optional Technical Tour)

08:30	Departure at Regal Kowloon Hotel
10:00 – 12:00	Site visit to Hong Kong International Airport, Hong Kong
12:00	Departure at Hong Kong International Airport (Move to the restaurant by way of departure terminal of the Airport by coach)
12:30 – 13:30	Lunch at restaurant nearby the Airport Restaurant “Dragon Inn” at Regal Airport Hotel
14:30	Arrival at Regal Kowloon Hotel

- Participants are requested to show ID card / passport when entering into restricted area of the Airport.
- Prior to the tour, Central Office request ID card / passport number, which will be transferred to Airport Authority Hong Kong with your name and affiliation for security purposes.
- Coach service is available between Regal Kowloon Hotel and Hong Kong International Airport.
- The maximum number of participants is up to 30.
- Admission will be allotted in order of application

## Conference Venue

Welcome Reception, Dinner on 22 November and Workshop

Regal Kowloon Hotel, Hong Kong

71 Mody Road, Tsimshatsui, Hong Kong

website: <http://www.regalhotel.com/mobile/regal-kowloon-hotel/en/home/home.html>



Map URL: <https://goo.gl/maps/6We65uBshRm>



## Registration

(a) On-line Registration

URL: [https://www.iere.jp/cgi-bin/event\\_form/event\\_form\\_entry.cgi](https://www.iere.jp/cgi-bin/event_form/event_form_entry.cgi)

or

(b) Please submit a registration form (Format 1, Page 13) to IERE Central Office by e-mail.

**Deadline: ~~21 October 2016~~ 4 November 2016**

## Registration Fee

Please make payment of following fee **No later than ~~21 October 2016~~ 4 November 2016** by credit card payment or bank transfer.

The Registration fee will cover attendance at both workshop days (include lunches & refreshments at coffee breaks), welcome reception on 21 November, dinner on 22 November and conference package:

<b>IERE members:</b>	<b>US\$ 450.-</b>
<b>Non-members:</b>	<b>US\$ 500.-</b>
<b>Academic participants:</b>	<b>US\$ 250.-</b>

*Recommended options\**

**Social Event (optional):** **Free**

Tour to the Peak after dinner *on 23 November*

**Technical Tour (optional):** **US\$ 40.-**

Smart facilities in Hong Kong (Hong Kong International Airport) on 24 November

\* Both offers are on a first-come-first-served basis.

## Payment

On-line Credit Card Payment and Bank Transfer are available.

**Deadline: ~~21 October 2016~~ 4 November 2016**

### (a) On-line Credit Card Payment

If you prefer using your credit card for the payment of registration fee, please contact to this URL: [https://www.iere.jp/Payment/paypal\\_16WS.html](https://www.iere.jp/Payment/paypal_16WS.html)

### (b) Bank Transfer \*

Name of the Bank:	The Bank of Tokyo-Mitsubishi UFJ, Ltd.										
Name of the Branch:	Seijo branch										
Name of the account:	IERE Central Office										
Account Number:	1204581										
Bank address:	15-1 Seijo 6-chome, Setagaya-ku, Tokyo, 157-0066 JAPAN										
SWIFT code:	<table border="1"><tr><td>B</td><td>O</td><td>T</td><td>K</td><td></td><td>J</td><td>P</td><td></td><td>J</td><td>T</td></tr></table>	B	O	T	K		J	P		J	T
B	O	T	K		J	P		J	T		

\* Remittance charge, Lifting charge, Correspondent charge and other charges should be paid by participants.

## VISA (Please do not forget!)

For participants from some countries needing a VISA to enter Hong Kong SAR, please consult with travel agent in your country for the details.

If you need an Invitation Letter\*, please refer to 'Invitation Letter for VISA' on Page 20.

\*CLP-RI may be able to issue an invitation letter for participants who need to apply for Visa. It may take 2 weeks to complete the procedures in CLP-RI, so please submit the form as soon as possible.

Disclaimer: CLP-RI reserves the right to fulfill or decline, at CLP-RI's discretion, requests for letters of invitation for visa application support purpose.



## Accommodations

*Regal Kowloon Hotel, Hong Kong:* 71 Mody Road, Tsimshatsui, Hong Kong  
<http://www.regalhotel.com/mobile/regal-kowloon-hotel/en/home/home.html>

A block of rooms at special rates has been reserved for conference participants.  
[It ended on 20 Oct.]

## Submission Items & Deadlines

### For Participants including speakers

Items	Format No.	Deadline	Submit To:
Registration Form (Page 20)	1	<del>21 October 2016</del> 4 November 2016	Dr. Takao Watanabe register(at)iere.jp [Please substitute (at) with @]
VISA Form (If necessary, Page 21)	5	<del>21 October 2016</del> (It takes 2 weeks to issue)	Ditto
Registration Fee	—	<del>21 October 2016</del> 4 November 2016	Please refer to Page 15
Technical Visits Fee [optional]	—	<del>21 October 2016</del> 4 November 2016	Ditto

### For Speakers

Items	Format No.	Deadline	Submit To:
Abstract	2	<del>21 October 2016</del> 2 September 2016	Dr. Takao Watanabe register(at)iere.jp [Please substitute (at) with @.]
Speaker's Information	3	<del>21 October 2016</del> 4 November 2016	
Copyright Permission	4	<del>21 October 2016</del> 4 November 2016	
Presentation Slides (PowerPoint file)	—	<del>21 October 2016</del> 4 November 2016	

The formats (Nos.1 to 5) can be **DOWNLOADED** from  
[https://www.iere.jp/contents/Information/Preparation\\_Events/16WS.html](https://www.iere.jp/contents/Information/Preparation_Events/16WS.html)

## Information on Presentation:

### Oral Session:

Speakers may only use PowerPoint files for their presentations.

Speakers at all sessions are required to arrive at the session at least 15 minutes in advance of the first paper and be seated at the front of the room.

Speakers are expected to get in contact with the Session Chair and confirm the PowerPoint files before the session begins.

The session room will be equipped with a laptop computer loaded with Microsoft software and a LCD projector.

Each presentation is strictly limited to 20 minutes max, which includes approximately 5 minutes for Q&A.

Presentation slide numbers is limited to within 20 slides.

PowerPoint files for the presentations are uploaded on IERE's website approximately one week before the workshop for participants to download.

IERE will post the presentations on the IERE website after the workshop for general public viewing.

### Poster Session:

There is no poster session in this Workshop

### Language

The medium of communication is English.

## REGISTRATION FORM

### Smart Cities – A Convergence of People, Technologies and Big Data

2016 IERE – CLP-RI Hong Kong Workshop  
21 - 24 November 2016, Hong Kong SAR, China

Please type  at appropriate boxes, then return this form by email **NO LATER THAN 4 November 2016** to:

IERE Central Office at Email: **register(at)iere.jp** [Please substitute (at) with @] / Fax: +81-3-3488-5100

1. Name	<input type="checkbox"/> Prof. <input type="checkbox"/> Dr. <input type="checkbox"/> Mr. <input type="checkbox"/> Ms. <input type="checkbox"/> Other, Please specify:	
	First Name	Family Name
2. Position, Department		
3. Company/ Organization etc.		
4. Address	Zip Code	Country
5. Contact Information	E-mail	
	Phone Number	
	Fax Number	
6. I will contribute to a presentation	<input type="checkbox"/> Yes <input type="checkbox"/> No Title: _____	
7. Reception/Dinner attendance <b>not mandatory</b>	Registration Fee covers the welcome reception and dinner (as well as lunch on 22 & 23 Nov). For restaurant reservations, please let us know your attendance. <input type="checkbox"/> <b>Welcome Reception on 21 Nov.</b> <input type="checkbox"/> <b>Dinner on 22 Nov.</b> <input type="checkbox"/> <b>None</b>	
8. Accompanying Person	If your family accompany you on reception/dinner, please write her or his name and title (Mr./Ms./ ) _____	
9. Registration Fee [21 - 23 Nov.]	Registration Fee [ Participants including speakers should pay registration fees. ] <input type="checkbox"/> <b>US\$ 450 : IERE Member</b> <input type="checkbox"/> <b>US\$ 500 : Non-IERE Member</b> <input type="checkbox"/> <b>US\$ 250 : Academic Participant</b> Note: When participation is canceled irrespective of the reason after 4 November 2016, Registration Fee might be charged or not be reimbursed.	
10. Social Event (Optional) [23 Nov.]	Tour to The Peak after dinner hosted by CLP-RI (free of charge) <input type="checkbox"/> <b>Yes : Number of participants _____ (including accompanying persons)</b> <input type="checkbox"/> <b>No</b> * The offer is on a first-come-first-served basis up to 65 persons.	
11. Technical Tour (Optional) [24 Nov.]	<b>US\$ 40 per person : Hong Kong International Airport</b> <input type="checkbox"/> <b>Yes : Number of participants _____ (including accompanying persons)</b> <input type="checkbox"/> <b>No</b> * Participants will be requested to submit ID card / passport number in advance. ** The maximum number of participants is up to 30. *** Admission will be allotted in order of application.	
12. Payment Amount	Total : <b>US\$ _____</b> (Registration Fee & Technical Tour Fee)	
13. Payment Method [no later than 4 Nov.]	<input type="checkbox"/> <b>Credit Card : URL for On-line Credit Card Payment : <a href="https://www.iere.jp/Payment/paypal_16WS.html">https://www.iere.jp/Payment/paypal_16WS.html</a></b> <input type="checkbox"/> <b>Bank Transfer</b> * IERE Central Office will send you the invoice.	
14. Invitation letter for VISA	<input type="checkbox"/> I need an invitation letter for Visa application. <input type="checkbox"/> <b>No</b> * Please refer to Page 9 of the 1st Announcement.	
15. Information from IERE	Do you agree with receiving e-mail notice on future activities/IERE E-mail Magazine from IERE Central Office? <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>	

# Invitation Letter for VISA

Format 5

If participants need an invitation letter, please type  and fill out the form and send to: IERE Central Office at Email: register(at)iere.jp [Please substitute (at) with @].

<input type="checkbox"/> <b>I need an invitation letter for Visa application.</b> * CLP-RI may be able to issue an invitation letter for participants who need to apply for Visa. It may take 2 weeks to complete the procedures in CLP-RI, so please submit the form as soon as possible.  Disclaimer: CLP-RI reserves the right to fulfill or decline, at CLP-RI's discretion, requests for letters of invitation for visa application support purposes.			
Name on passport	First Name:	Middle Name:	Family Name:
Gender	<input type="checkbox"/> Male <input type="checkbox"/> Female		
Nationality			
Date of birth			
Passport No.			
Occupation			
Company/ Organization etc.			
Expected date of entry			
Duration of stay			
Expected date of departure			
Colloquium Participation	<input type="checkbox"/> 21 November, Welcome Reception		
	<input type="checkbox"/> 22 November, 2016 IERE-CLP-RI Hong Kong Workshop (Day 1)		
	<input type="checkbox"/> 23 November, 2016 IERE-CLP-RI Hong Kong Workshop (Day 2)		
	<input type="checkbox"/> 24 November, Technical Tour		



# Organizers

## **IERE:**

IERE Central Office  
2-11-1 Iwado Kita, Komae-shi, Tokyo 201-8511, Japan  
<https://www.iere.jp>

## **CLP-RI:**

CLP Research Institute Limited  
8 Laguna Verde Avenue, Hung Hom, Kowloon, Hong Kong  
<https://www.clpgroup.com/en>

## **About CLP-RI**

CLP-RI, CLP Research Institute Limited, was created in 2000 (CLP's Centenary year) to support CLP's tradition of technological innovation, environmental stewardship and customer service. CLP-RI's mission is to strengthen our innovation capabilities with the intent of increasing the economic, social, and environmental value of our products, services and businesses in the communities we serve.

In addition to building knowledge for CLP to manage these issues, CLP-RI contributes by proactively bringing emerging issues to the attention of management; expanding our global perspective on emerging technologies; growing the practice and means of knowledge sharing; demonstrating a culture of innovation and learning in critical areas by doing; and building and maintaining productive relationships with the academic and research communities.

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