**IEEE COMPUTER SOCIETY**

**IEEE COMPUTER SOCIETY TCCC**

*Technical Committee on Computer Communications*

| August 2021 Newsletter | http://cs-tccc.org/ |
|---|---|

## Editorial

Unfortunately, the Corona virus restrictions are still keeping conference activities in an inconvenient, unusual mode. Some good news is: TCCC has the 5G World Forum new among its sponsored conferences in 2021, and two other conferences re-joined the technical co-sponsorship of TCCC. These conferences are introduced with some more details in part 1 of this newsletter. Sadly, all TCCC supported conferences within the next few months have (again) been turned into virtual events. Those conferences announcing their dates for 2022 are planning for in-person events. Let's keep fingers crossed!

**Don't forget to vote for the TCCC Chair for the term from January 2022 through December 2023! The deadline for the electronic vote is September 10, 2021. TCCC members have received instructions via the membership mailing(s).**

We carefully updated our calendar of deadlines and dates, based on public information available from the conference web sites, and in parts coming from preliminary information from the organizing committees. If you spot errors in the dates, please let us know (… to correct these in the upcoming TCCC newsletter).

## Contents

1. Conferences new to TCCC support
2. Overview of TCCC supported activities
3. Calendar of deadlines and dates
4. Call for Contributions!
5. Attachments: PDFs of Call for Papers with upcoming deadlines

## TCCC supported activities at a glance

LCN   IPCCC   SMARTCOMP   5GWF   N2 Women   ICOIN

Student participation grants   PerCom   TCHPC   WoWMoM

ICMU

# 1. Conferences new to TCCC Support

**IEEE 5G World Forum (5GWF)**

The IEEE 5G World Forum is new in 2021 among the **TCCC sponsored conferences**.

The 2021 IEEE 5G World Forum (5GWF'21) aims to bring experts from industry, academia, and research to exchange their vision as well as their achieved advances towards future networks of 5G beyond and encourage innovative cross-domain studies, research, early deployment and large-scale pilot showcases that address the challenges of future networks.



The 2021 IEEE 5G World Forum (5GWF'21), a virtual event with an optional in-person component in Montreal, Canada, seeks contributions on how to nurture and cultivate future networks technologies and applications for the benefit of society. These systems should unveil a novel mobile network architecture that not only improves physical data rate, but also creates a new ecosystem allowing the deployment of novel services and applications. A key target is to build a novel network architecture that should support not only classical mobile broadband applications and services but also vertical industry (e.g. Intelligent Transport, Industrial IoT, eHealth, etc.) and other future networks-based services.



**Although the (extended) submission deadline August 31 is very short ahead (or may already have passed when you read this newsletter), we are adding the one page Call for Papers PDF of 5GWF as one of the last pages of this newsletter.**

It comprehensively gives a nice overview on the mission and topics of the conference.

Among the prominent speakers of 5GWF are Robert Kahn, Javan Erfanian, H. Vincent Poor, Magnus Frodigh, Peiying Zhu, Shen Jia, Peter Vetter, and more to be revealed soon.

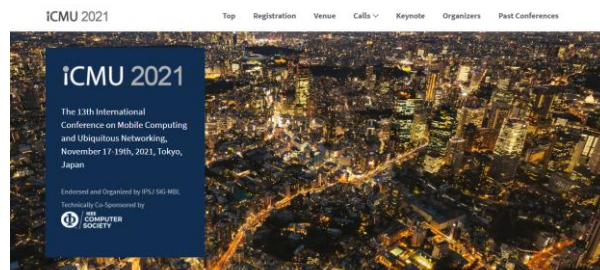The deadline for industry demonstrations is still open, September 15, 2021.

https://ieee-wf-5g.org/

# Conferences new to TCCC Support (continued)

## International Conference on Mobile Computing and Ubiquitous Networking (ICMU)

The International Conference on Mobile Computing and Ubiquitous Networking is coming back in 2021 among the **TCCC technically co-sponsored conferences**.

ICMU already has been co-sponsored in 2019 and earlier years. The history of ICMU dates back to 2004, the conference was held at least every second year.

The 13th International Conference on Mobile Computing and Ubiquitous Networking [November 2021, ICMU 2021]  – focuses on the active area of research and development in mobile communications, applications, algorithms and systems as well as ubiquitous services and computing. The special focus of ICMU includes advancing technologies for next generation distributed and ubiquitous computing where human, networked sensors, connected devices and environment are involved. Examples of such technologies are IoT, human-centric sensing, energy-efficient mobile systems, social-networking, machine-to-machine communications, mobile cloud computing and mobile social P2P. Not only these issues but also fundamental algorithms and theory for mobile system privacy, security, reliability and robustness are also the topics of interest.

## Hybrid Conference

ICMU 2021 will be held virtually to ensure participants' health and safety. Presentations will be delivered using a web conferencing system. Local events such as banquets and excursions will not be held considering the COVID-19 situation. Attendance at the venue is possible if the local situation permits.

http://www.icmu.org/icmu2021/

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# Conferences new to TCCC Support (continued)

## International Conference on Information Networking (ICOIN)

The International Conference on Information Networking (ICOIN) has just renewed **TCCC technical co-sponsorship** for 2022.

ICMU already has been co-sponsored in earlier years, dating back to 2011.



The 36th International Conference on Information Networking (ICOIN 2022) will take place in Bangkok, Thailand, which is organized by Korea Institute of Information Scientists and Engineers (KIISE) and technically co-sponsored by IEEE.

It has been 36 years since ICOIN originally started under the name of Joint Workshop on Computer Communication in 1986. In past thirty years, computer communication and networking technologies have changed every aspect of our lives and societies. While computer networks have contributed largely to the current IT advancement, it will play a key role in new IT paradigms such as IoT and cloud computing and will be applied to various areas of the upcoming society including industry, business, politics, culture, medicine and so on. ICOIN is the most comprehensive conference focused on the various aspects of advances in computer communication and networking technologies. The main purpose of ICOIN 2022 is to improve our research by achieving the highest capability and encourage open discussions on computer communication and networking technologies. Authors are invited to submit original unpublished manuscripts that demonstrate recent advances in computer communications, wireless/mobile networks, and converged networks in the theoretical and practical aspects.

http://www.icoin.org/main.php

**The deadline of ICOIN paper submission has been extended to September 12, 2021.**

**A call for workshop proposals is still open.**

A PDF version of the Call for Papers of ICOIN is added as one of the last pages of this newsletter.

## 2. TCCC Sponsored Conferences

### IEEE International Conference on Local Computer Networks (LCN)

The IEEE LCN conference is the premier conference on theoretical and practical aspects of computer networking. LCN is highly interactive, enabling an effective interchange of results and ideas among researchers, users, and product developers. Major developments from high-speed networks to the global Internet to specialized sensor networks have been reported at past LCNs.
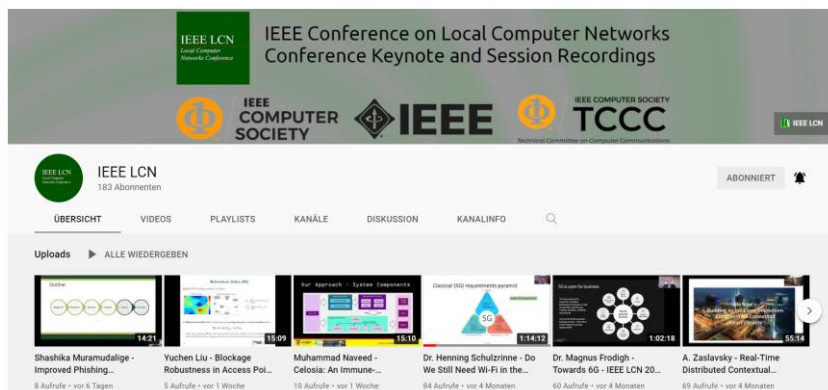


https://www.ieeelcn.org/

IEEE 46th LCN 2021 was planned to be October 4 – 7, 2021, in Edmonton, Canada, which would have been the second time to be in Edmonton. Meanwhile, the decision was made to hold LCN virtually in an all-digital conference experience. Deadlines for LCN conference and symposium papers have closed.

**One deadline of LCN is still open, it is possible to submit LCN demo proposals by September 6, 2021.**

Edmonton is planned to be the physical location of LCN 2022, scheduled for September 26 – 29, 2022.



The collection of major LCN presentation recordings has recently been completed by publishing the LCN 2020 best paper and best paper candidate presentations on the public YouTube channel of LCN.

https://www.youtube.com/IEEE_LCN

# TCCC Sponsored Conferences (continued)

**IEEE International Performance Computing and Communications Conference (IPCCC)**

http://ipccc.org/



VIRTUAL

40th IEEE

International Performance Computing and Communications Conference

IPCCC 2021 October 28th - 30th, 2021
Austin, Texas, USA

| Home | General Information | Contact and Committee Information | Author's Information | Workshop | Program at a Glance | Hotel | Registration | |
|------|--------------------|----------------------------------|---------------------|----------|---------------------|-------|--------------|--|

The International Performance, Computing, and Communications Conference is a premier IEEE conference presenting research in the performance of computer and communication systems. For almost four decades, IPCCC has been a research forum for academic, industrial, and government researchers.

Austin, Texas, USA, has been planned for conference location for the second time, after IPCCC 2020 needed to be turned to a virtual format. Unfortunately, due to the still lasting COVID-19 situation, also IPCCC 2021 meanwhile was announced to be an all-digital, virtual conference experience.

IPCCC has August 30th as deadline for collecting the camera ready papers. Thus, it is to be expected that the conference program will be announced soon.

Congratulations and all the best for running the 40th edition of IPCCC.



**IEEE IPCCC**

**40th**

**Anniversary**

## TCCC Sponsored Conferences (continued)

**IEEE International Conference on Pervasive Computing and Communications (Percom)**



http://www.percom.org/

IEEE PerCom is the premier annual scholarly venue in pervasive computing and communications. In 2022, PerCom will be held in Pisa, which is known for its precious gothic and renaissance-style buildings including the world-famous leaning tower as well as art and culture in general.

Pervasive computing is constantly at the forefront of mobile systems research, and has found its way into many commercial systems due to tremendous advances in a broad spectrum of technologies and topics such as wireless networking, mobile and distributed computing, sensor systems, ambient intelligence, and smart devices.

PerCom 2022 will be a hybrid physical/virtual event. The boundary between the two modalities will be defined based on the pandemic conditions worldwide.
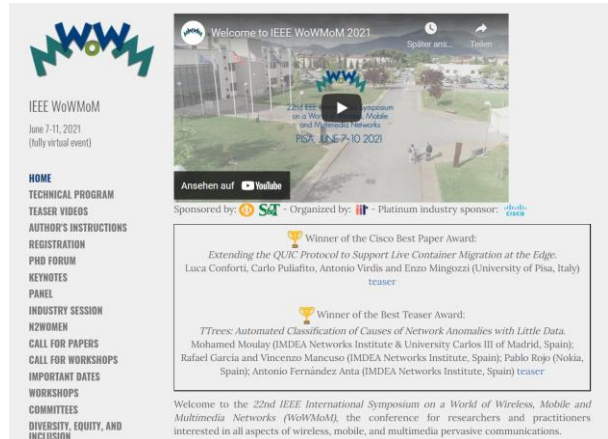
The PerCom paper registration deadline is announced for September 27, 2021. The call for workshops has closed in July, thus, it is to be expected that the PerCom 2022 workshops will be announced soon. The deadline for workshop submissions is tentatively announced as November 14, 2021.

Deadlines for other paper categories are still open.

## TCCC Sponsored Conferences (continued)

**IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM)**

WoWMoM's programme focuses on wireless networking technologies and their key role in future Internet scenarios. The symposium addresses the increasing wealth of opportunities for distributing multimedia contents over wireless networks, enabling dissemination of professional contents to mobile users as well as sharing user-generated contents among them. Users will be able to retrieve, publish, and manage information, communicate with other users or devices, access and author services, and create and exploit context-awareness.



http://wowmom2021.iit.cnr.it/

At the recent 22nd WoWMoM in June 2021 two awards have been presented to the following papers:

Best Paper Award:
**"Extending the QUIC Protocol to Support Live Container Migration at the Edge."**
Luca Conforti, Carlo Puliafito, Antonio Virdis and Enzo Mingozzi (University of Pisa, Italy)

Best Teaser Award:
**"TTrees: Automated Classification of Causes of Network Anomalies with Little Data."**
Mohamed Moulay (IMDEA Networks Institute & University Carlos III of Madrid, Spain); Rafael García and Vincenzo Mancuso (IMDEA Networks Institute, Spain); Pablo Rojo (Nokia, Spain); Antonio Fernández Anta (IMDEA Networks Institute, Spain)

Some early information on the 2022 edition of WoWMoM has been presented at the 2021 conference and is available on the WoWMoM YouTube channel.

The 2022 web page is expected to go live by end of August 2021.



https://www.youtube.com/channel/UCXaG1kphjy_UvavYk5EmkqQ

# TCCC Sponsored Conferences (continued)

## IEEE International Conference on Smart Computing (SMARTCOMP)



### 7th IEEE International Conference on Smart Computing SMARTCOMP 2021

23-27 Aug 2021, Virtual

**IEEE SMARTCOMP 2021**

Due to uncertainties associated with the pandemic,
SMARTCOMP 2021 will be held as a virtual conference.

**IMPORTANT DATES**

- Abstract submission:
  ~~1 March 2021~~ EXTENDED to 22 March 2021
- Paper submission:
  ~~8 March 2021~~ EXTENDED to 22 March 2021

SMARTCOMP is the premier IEEE conference on smart computing. Smart computing is based on the synergistic combination of advances in Sensor-based technologies, the Internet of Things (IoT), Cyber-Physical Systems, Edge cloud computing, Big Data analytics, Machine Learning, Cognitive Computing, and Artificial Intelligence.

https://www.smart-comp.info/

SMARTCOMP is the premier IEEE conference on smart computing. Smart computing is based on the synergistic combination of advances in Sensor-based technologies, the Internet of Things (IoT), Cyber-Physical Systems, Edge cloud computing, Big Data analytics, Machine Learning, Cognitive Computing, and Artificial Intelligence.

The 2021 event of SMARTCOMP has just recently been concluded. Plans for next year 2022 are not yet known to us and will be available in the next TCCC newsletter.

## Technically Co-Sponsored Conferences

In this edition of our newsletter, the current conferences under technical co-sponsorship have been presented with some more information in part 1.

For a full list of past technically co-sponsored TCCC conferences
see https://cs-tccc.org/supports/tcs/

# 3. Calendar of upcoming (TCCC) conference deadlines & dates

## Upcoming submission deadlines:

| | |
|---|---|
| August 31, 2021 | 5GWF papers + tutorial proposals (extended) |
| September 6, 2021 | LCN demo submission (extended) |
| September 12, 2021 | ICOIN paper submission (extended) |
| TBD | ICOIN workshop proposals |
| September 15, 2021 | 5GWF industry demonstrations |
| September 27, 2021 | PerCom paper registration |
| TBD | PerCom other paper categories |
| December 31, 2021 | WoWMoM main conference papers |
| In March, 2022 | WoWMoM workshop, PhD forum submissions |

## Dates of the conferences: (sponsored + technically co-sponsored)

| | |
|---|---|
| October 4-7, 2021 | 46th IEEE LCN, (Edmonton, Canada) - **VIRTUAL** |
| October 13-15, 2021 | IEEE 5G World Forum, **Virtual** + Montreal (Canada) |
| October 28-30, 2021 | 40th IEEE IPCCC, (Austin, Texas, USA) - **VIRTUAL** |
| November 17-19, 2021 | 13th ICMU, Tokyo (Japan) – **VIRTUAL**, hybrid |
| January 12-15, 2022 | 36th ICOIN, Bangkok (Thailand) |
| March 21-25, 2022 | 20th IEEE PerCom, Pisa (Italy) |
| June 14-17, 2022 | 23rd IEEE WoWMoM, Belfast, North Ireland (UK) |
| TBD, 2022 | 8th IEEE SMARTCOMP, TBD |

## 2021 TCCC Executive Committee

The Executive Committee of the TCCC is chaired by the TCCC Chair, directs the operations of the TCCC and determines the budget and nature of TCCC activities:

| | |
|---|---|
| TCCC Chair: | **Andreas Reinhardt**, TU Clausthal, Germany |
| TCCC Past Chair: | **Nils Aschenbruck**, University of Osnabrück, Germany |
| Treasurer: | **Frank Huebner**, U.S.A. |
| Conference Liaison Chairs: | **Salil Kanhere**, The University of New South Wales, Australia |
| | **Burkhard Stiller**, University of Zürich, Switzerland |
| Industry Chair: | **Girish Revadigar**, Huawei International Pte. Ltd., Singapore |
| Student Outreach Chair: | **Matthias Wübbeling**, University of Bonn and Fraunhofer FKIE, Germany |
| History Chair: | **Joe Bumblis**, IEEE TCCC Executive Committee, U.S.A. |
| Communications Chair: | **Matthias Frank**, University of Bonn, Germany |
| TCHPC Representative: | **Anura Jayasumana**, Colorado State University, U.S.A. |

# What would you like to read in the next TCCC newsletter?

# Call for contributions!

We are soliciting contributions for our TCCC newsletter. This maybe any piece of information like

- Call for Papers/Workshops/Demos/Posters/Participation/...
- Job offer related to TCCC
- Information of general relevance for the TCCC members
- Information on conference award recipients (best paper, best demo, travel grants, ...)
- Experience reports from conferences and workshops

If you are missing an important topic that should be mentioned as well, please let us know! (matthew@cs.uni-bonn.de) We plan to send out a TCCC newsletter about every few months, depending on availability of relevant content.

**IEEE COMPUTER SOCIETY**

# TCCC

*Technical Committee on Computer Communications*

## The Flagship Event of the IEEE Future Networks Initiative
### 13-15 October 2021 | Virtual + Montreal, Canada

# IEEE 5G WORLD FORUM

## 2021 IEEE 4th 5G World Forum (5GWF'21)
## CALL FOR PAPERS and PROPOSALS

**Technical Papers**

- Track 1: 5G and Beyond Technologies
- Track 2: 5G and Beyond Application and Services
- Track 3: 5G and Beyond and IoT/Tactile/Blockchain
- Track 4: 5G and Beyond Security and Privacy
- Track 5: 5G and Beyond Trials, Experimental Results and Deployment Scenarios
- Track 6: 5G and Beyond Hardware and Test / Measurements
- Track 7: 5G and beyond Special Verticals
- Track 8: 5G and Beyond Special Topicals

**Proposals**

- Tutorials
- Special Sessions
- Workshops
- Industry Forums & Panel Sessions
- 5G Vertical Areas
- 5G Topical Areas
- Industry Demonstrations
- Start-Ups

Please submit your papers on EDAS:
https://www.edas.info/newPaper.php?c=28156

Please address questions regarding the Call for Papers to
**5GWF-info@ieee.org**.

Accepted and presented technical and workshop papers will be published in the IEEE 5G World Forum 2020 Conferences Proceedings and IEEE Xplore®. See the website for author requirements. Full details of submission procedures are available at  www.ieee-wf-5g.org.

Organized by IEEE Future Networks, IEEE Computer Society, IEEE Communications Society, and IEEE Montreal Section

- The 2021 IEEE 4th 5G World Forum (5GWF'21) seeks contributions on how to nurture and cultivate future network technologies and applications beyond 5G, and how they can benefit society.
- 5G systems have started to deliver a novel mobile network architecture that not only improves physical data rate, but also creates a new ecosystem allowing the deployment of novel services and applications. A key target for future networks will be to improve support not only for classical mobile broadband applications and services but also for vertical industry (e.g., Intelligent Transport, Industrial IoTs, eHealth, etc.) and other mobility-based services.
- This conference aims to bring experts from industry, academia and research to exchange their vision as well as their achieved advances in 5G and towards 6G, and encourage innovative cross-domain studies, research, early deployment and large-scale pilot showcases that address the challenges of 5G while identifying and investigating the possibilities of future networks.

### Organizing Committee
**Founding Co-Chairs**
**Ashutosh Dutta** Johns Hopkins University Applied Physics Lab
**Latif Ladid** IPv6 Forum
**General Co-Chairs**
**Benoit Pelletier** VMware
**Celia Desmond** President WCT
**Halim Yanikomeroglu** Carleton University
**Burkhard Stiller** University of Zurich
### Technical Program Committee
**TPC Chair, Fabrice Labeau** McGill University
**TPC Co-Chairs:**
**Halima Elbiaze** Université du Québec à Montréal
**Essaïd Sabir** Hassan II University of Casablanca
**Anura Jayasumana** Colorado State University
**Gunes Kurt** École Polytechnique de Montréal

IEEE Future NETWORKS™

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Visit us online for details!  https://ieee-wf-5g.org

## Important Dates:
**31 August 2021**:
Technical papers
**31 July 2021:**
Special Session and Workshop proposals
**31 August 2021:**
Tutorials proposals
Vertical/Topical Area proposals
Industry Forum and Panel Session proposals

# CALL FOR PAPERS

## GENERAL INFORMATION

The 36th International Conference on Information Networking (ICOIN) will take place in Bangkok, Thailand, which is organized by Korea Institute of Information Scientists and Engineers (KIISE) and technically co-sponsored by IEEE and IEICE. It has been 36 years since ICOIN originally started under the name of Joint Workshop on Computer Communication in 1986. In past thirty six years, computer communication and networking technologies have changed every aspect of our lives and societies. While computer networks have contributed largely to the current IT advancement, it will play a key role in new IT paradigms such as IoT and cloud computing and will be applied to various areas of the upcoming society including industry, business, politics, culture, medicine and so on. ICOIN is the most comprehensive conference focused on the various aspects of advances in computer communication and networking technologies. The main purpose of ICOIN 2022 is to improve our research by achieving the highest capability and encourage open discussions on computer communication and networking technologies. Authors are invited to submit original unpublished manuscripts that demonstrate recent advances in computer communications, wireless/mobile networks, and converged networks in the theoretical and practical aspects.

## RELATED TOPICS

Potential topics in this conference include, but are not limited to:
- 5G/6G cellular systems and heterogeneous networks
- Ad-hoc and sensor networks
- Artificial intelligence (AI) and autonomous networking
- Big data/Cloud computing and networks
- Blockchain platforms and services
- Cognitive radio, cooperative communication and networking
- Content distribution network (CDN)
- Contents/Information centric networking (CCN/ICN)
- Cross-layer design and optimization
- Cyber-physical system (CPS)
- Delay/Disruption tolerant network (DTN)
- Device-to-device communications
- Distributed database and data mining
- Energy-efficient protocols, green networks, and smart grid
- Future Internet and future networks
- Healthcare systems and networks
- Industrial networks and smart factory
- Internet and web-based database systems and applications
- Internet of things and machine-to-machine communications
- Machine learning and networking
- Mobile Edge Computing
- Multimedia/database systems and applications
- Networked computing systems and devices
- Network performance analysis/measurement and evaluation
- Network security, trust and privacy
- Network simulation and modeling
- Network survivability and reliability
- Network science
- Network traffic management
- Optical networks
- Operating systems and middleware support for networking
- Peer-to-peer (P2P)/Overlay networks
- Pricing and billing
- QoS and resource management
- Routing, switching, and addressing
- Social computing and networks
- Software defined networking (SDN) and network virtualization
- Ubiquitous home and office networking
- Underwater networks
- Vehicle-to-everything (V2X) and autonomous cars
- VR/AR Streaming
- Wireless/mobile networks (WBAN/WPAN/WLAN/WMAN/WWAN)
- Wireless mesh/multihop networks

## SUBMISSION AND PUBLICATION

Authors are invited to submit full paper (5~6 pages) or short paper (3~4 pages) electronically as PDF files through EDAS. The direct link for paper submission is https://edas.info/N28449. Details about the submission process including formatting instructions will be available at the conference website, http://www.icoin.org. Papers must be submitted using the IEEE conference template. The direct link for the template is http://www.ieee.org/conferences_events/conferences/publishing/templates.html. All submitted papers are subject to peer reviews by Technical Program Committee members. Accepted papers for presentation in the conference will appear in the proceedings which will be available to participants during the conference. More details will be made available in subsequent announcements and on our website. There will be Best Paper Awards for outstanding contributed papers. All accepted and presented papers will be published in the ICOIN 2022 Conference Proceedings and submitted to IEEE Xplore.

## Important Dates
- Paper Submission Due: ~~August 15, 2021~~ **September 12, 2021**
- Acceptance Notification: **November 8, 2021**
- Camera-ready Due: **November 29, 2021**
- Conference Dates: **January 12-15, 2022**

**CONTACT INFORMATION**
If you have any questions about the CFP and papers submission, please send any inquiry to TPC Chair: Prof. Yong-Hoon Choi (yhchoi@kw.ac.kr).

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