The International Conference in Computing (ICC) will host a number of workshops. Each workshop will be led by one presenter/group of presenters for the duration of the session time, which may be half or full day. The aim of the conference workshops is to provide training session for emerging topics not specifically covered in the main conference. Workshops should highlight trend topics related to Data Science, IoT, Cyper Security, and Networks. An invitation is open to submit workshop proposals.

**WorkShop Topics**

The topics for the workshops are under for trends as follows:

**DATA SCIENCE**

* Deep Learning
* Machine Learning
* Predictive Analytics
* Natural Language Processing
* Data Visualization
* Data Wrangling
* AI Research
* Data Science at Scale
* Data Science Management
* Data Science Workflows
* Recommendation Systems
* Transfer Learning
* Conversational AI
* Speech Recognition
* Unsupervised Learning
* Image Classification
* Machine translation

**CYBER SECURITY**

* Authentication and Authorization
* Communication and Network Security
* Security Testing and Verification
* Socio-technical Security
* Reverse Engineering

**NETWORK**

* Software defined networks.
* Network virtualization.
* Vehicular and 5G networks.
* Cloud networking.
* Network data analytics.
* Smart cites.
* Wireless networks.
* Mobile networks.
* Satellite networks.
* Optical networks.
* Multimedia networks.

**INTERNET OF THINGS (IOT)**

* Internet of Things Architecture
* Big data and IoT Data Analytics
* IoT and Artificial Intelligence techniques
* IoT Best Practices, Standards and OpenSource
* Web Technologies for the IoT.
* Description and Discovery of IoT devices, including mobile and moving devices.
* Real World Applications of IoT technology
* Green IoT
* The Internet of People

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| --- | --- | --- | --- |
| Workshop title: | | | |
|  | | | |
| Organizers: | | | |
|  | | | |
| A short biography of the organizers (up to 200 words) | | | |
|  | | | |
| Names of potential speakers | | | |
|  | | | |
| Scope and Topics (max 250 words) | | | |
|  | | | |
| Workshop track | | | |
| 🞏 Data Science | 🞏 Cyber Security | 🞏 Network | 🞏 IoT |
| Duration of the workshop: | | | |
| 🞏 3 hours | | 🞏 6 hours | |
| Why the workshop topic is important and current? | | | |
|  | | | |
| Why the workshop may attract a large number of researchers and audiences? | | | |
|  | | | |
| Why the workshop differs from other similar conference topics and workshops? | | | |
|  | | | |
| A previous workshop description (recently organized similar workshop), including the submitted paper/ presentation, number of attendees, etc. | | | |
|  | | | |
| The required hardware and software | | | |

**Please address your questions to the ICC 2019 Workshop committee:**

E-mail: ccis-cs-workshop@pnu.edu.sa