

10-11, August 2023  
Bangkok, Thailand

## About the Conference

The state-of-the-art image processing research works are dedicated to cover a wide range of computational intelligence techniques with a completely new way of neural networks organization concept called Capsule Networks [CapsNets] that opens up a new era of advanced image-processing applications. It is being organized on 10-11, August 2023 in association with Suan Dusit University, Bangkok, Thailand & Pulchowk Campus, Institute of Engineering, Tribhuvan University, Lalitpur, Nepal. Moreover, the 4<sup>th</sup> International Conference on Image Processing and Capsule Networks [ICIPCN 2023] initiates a capsule network perspective to leverage an authoritative and detailed representation to deliver an enhanced image and video recognition and adaptive processing mechanisms which were closely related to the humanistic way of thinking. This extended ICIPCN 2023 conference will be a dedicated platform for researchers, academicians and scholars to share and exchange their valuable research insights, which may clearly define the image and the family of image processing techniques and applications. Henceforth, this premier International conference motivates the researchers to discover more information from images and perform innovative image analysis procedures by efficiently utilizing the evolving capsule network models. This conference is organized by Tribhuvan University (Pulchowk Campus), Lalitpur, Nepal in association with Suan Dusit University, Bangkok, Thailand.

## Organizing Committee

### Conference Chair

#### Prof. Dr. Subarna Shakya

Professor,  
Department of Electronics and Computer Engineering,  
Pulchowk Campus, Institute of Engineering,  
Tribhuvan University,  
Lalitpur, Nepal.

### Technical Program Chairs

- ❖ **Dr. Chawalsak Phetchanchai**, Program Executive Committee, Suan Dusit University, Bangkok, Thailand.
- ❖ **Dr. Pisith Hengjindasirithanot**, Faculty of Engineering and Industrial Technology, Phetchaburi Rajabhat University (PBRU), Thailand.
- ❖ **Dr. Sukon Phanichphant**, Professor, Chiang Mai University, Thailand.
- ❖ **Dr. João Manuel R. S. Tavares**, Professor, Faculdade de Engenharia, Universidade do Porto, Portugal.
- ❖ **Dr. Fernández-Caballero**, Universidad de Castilla La Mancha, Albacete, Spain
- ❖ **Dr. George Papakostas**, International Hellenic University, MLV Research Group, Dept. of Computer Science, Kavala, Greece.
- ❖ **Dr. Ke-Lin Du**, Affiliated Associate Professor, Department of Electrical and Computer Engineering, Concordia University, Montreal, Canada.

### Publication Chairs

- ❖ **Dr. S. Smys**, Professor, Department of CSE, RVS Technical Campus, Coimbatore, India.
- ❖ **Dr. Robert Bestak**, Czech Technical University in Prague, Czech Republic.
- ❖ **Dr. A. Khaled A Kamel**, Texas Southern University, USA.

### Registration Chairs

- ❖ **Dr. Fuqian Shi**, Rutgers University, New Jersey, United States.
- ❖ **Dr. Abdul M. Elias**, Professor, Tokyo Institute of Technology, Tokyo, Japan.
- ❖ Local Arrangement Chairs
- ❖ **Dr. Siriluck Lorepunmanee**, Faculty of Science and Technology, Suan Dusit University, Thailand.
- ❖ **Dr. Wicha Chimphee**, Faculty of Science and Technology, Suan Dusit University, Thailand.
- ❖ **Dr. Siriporn Chimphee**, Faculty of Science and Technology, Suan Dusit University, Thailand.

## Call for Papers

### Image Processing

- ✓ Image Recognition and Analysis
- ✓ Image Registration
- ✓ Image Segmentation and Edge Detection
- ✓ Image Texture Analysis
- ✓ Medical Imaging Systems
- ✓ Image Acquisition, Reconstruction and Synthesis
- ✓ Feature Extraction Techniques
- ✓ Medical Image Diagnosis
- ✓ Image Reconstructions and Losses
- ✓ Medical Interpretability and Explainable Deep Learning Frameworks
- ✓ Image Processing for Multispectral Images
- ✓ Image Enhancement and Restoration
- ✓ Image Formation Principles
- ✓ Pattern Recognition and Capsule Networks in Object Tracking
- ✓ Face and Gesture Recognition Techniques
- ✓ Genetic Algorithms
- ✓ Signal Identification and Representation
- ✓ Speech and Audio Processing
- ✓ Optical Signal Processing
- ✓ Capsule Based Biometric Technologies
- ✓ Cognitive Vision of Image Processing
- ✓ Multi-Fusion Imaging

### Capsule Networks

- ✓ Capsules in Image Analysis
- ✓ Deep Learning in Image Analysis
- ✓ Pattern Recognition
- ✓ Machine Learning
- ✓ Data Mining
- ✓ Big Data Analytics and Imaging
- ✓ Visual Content Analysis
- ✓ Fuzzy Systems
- ✓ Human-Visual Systems
- ✓ Robotic Vision of Image Processing
- ✓ Capsules in Adaptive Image Processing
- ✓ Machine Learning in Capsule Neural Networks
- ✓ Capsule Implementation in Image Systems
- ✓ Capsules and Digital Image Processing Techniques
- ✓ Routing Mechanisms
- ✓ Machine Intelligence
- ✓ Artificial Neural Networks
- ✓ Artificial Intelligence Techniques

## Venue

Ibis Bangkok Riverside Hotel  
27 Soi Charoen Nakhon 17,  
Bang Lamphu Lang, Khlong San,  
Bangkok 10600, Thailand.

## Submission Guidelines

The submitted paper should come under any one of the domain mentioned in the Call for Papers Section.

Papers not more than 12-15 pages need to be submitted to the conference via designated email id [icipcn.conf@gmail.com](mailto:icipcn.conf@gmail.com) by the desired deadline mentioned in conference homepage on MS-WORD/LaTeX Format.

## Registration Fee Details

**Author : 150 USD**

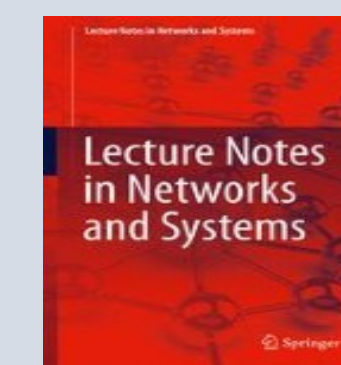
**Listener : 100 USD**

### Registration fee includes,

- Admission to Opening Tracks, Panels, Keynote Talk and Scientific Sessions
- All Conference Material including the conference proceeding
- Individual Certificate of Participation
- Virtual Networking
- Springer Publication

## PUBLICATION

All registered and presented papers will be published in Springer - Lecture Notes in Networks and Systems



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Springer LNNS Series Link:  
<https://www.springer.com/series/15179>

### ICIPCN Publications

2022

<https://link.springer.com/book/10.1007/978-3-031-12413-6>

2021

<https://link.springer.com/book/10.1007/978-3-030-84760-9>

2020

<https://link.springer.com/book/10.1007/978-3-030-51859-2>