

## SCOPE

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 May 6-7, 2020 in association with King Mongkut's University of Technology Thonburi, Thailand, Dayeh University, Taiwan and Tribhuvan University, Nepal. Moreover, this International Conference on Image Processing and Capsule Networks [ICIPCN 2020] 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 2020 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.

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Da-Yeh University  
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**Dr. Hui Ming Wee**, Distinguished Professor and Associate Dean and Chaplain, Chung Yuan Christian University.

**Dr. Afreen**, Lincoln University College, Malaysia.

**Dr. Aung**, Lincoln University College, Malaysia.

## CALL FOR TOPICS

ICIPCN 2020 welcomes the prospective authors to submit their research works that covers the different aspects of image processing and analysis techniques. All the research papers should state their research novelty and state-of-the-art contributions towards image processing architectures and applications.

### 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  
Cognitive vision of image processing

### 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  
Capsule based 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  
Machine vision-based capsule networks  
Industrialized capsule networks  
Artificial intelligence in capsule networks

## SUBMISSION

### FORMAT

All papers must be formatted according to the Springer AISC template, with a maximum length of 15 pages including figures and references in Microsoft Word Format 2007, Microsoft Word Format 2003, Latex Format.

All proposed papers must be submitted in electronic form (DOC/DOCX format) using the ICIPN submission management system or through Email [[icipcn.conf@gmail.com](mailto:icipcn.conf@gmail.com)].

### REGISTRATION

Author: 200 USD\*

Listener: 150 USD

\*Maximum number of pages per paper: 15

## PUBLICATION

All accepted & registered papers will be included in ICIPCN 2020 Proceedings, published by **Springer - Advances in Intelligent Systems and Computing Series**

Link: <https://www.springer.com/series/11156>

## VENUE

**Ibis Bangkok Riverside Hotel**  
Banglamphulang, Klongsarn,  
10600,  
Bangkok [Thailand].

## CONTACT

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**Conference Website:** <http://icipcn.com/#>

# INTERNATIONAL CONFERENCE ON IMAGE PROCESSING AND CAPSULE NETWORKS

(ICIPCN-2020)

May 6-7, 2020



**Organized by**

Mongkut's University of Technology  
Thonburi, Thailand,  
Dayeh University, Taiwan,  
Tribhuvan University, Nepal

