

## 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 May 27-28, 2021 in association with King Mongkut's University of Technology Thonburi, Thailand, Dayeh University, Taiwan, and Tribhuvan University, Nepal. Moreover, the 2nd International Conference on Image Processing and Capsule Networks [ICIPCN 2021] 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 2021 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.

## CALL FOR PAPER

### 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

## ORGANIZING COMMITTEE

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#### Dr. Joy Iong Zong Chen

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Taiwan.

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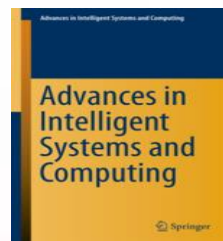
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**Conference website:** <http://icipcn.com/2021/>



## 2<sup>nd</sup> International Conference on Image Processing and Capsule Networks (ICIPCN-2021)

On

**May 27-28, 2021**

Organized by

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



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