

14<sup>th</sup> International Conference on Image Processing  
Theory, Tools & Applications  
October 13-16, 2025  
Istanbul, Türkiye

IPTA  
2025



### Special Session

#### Chairs:

**Dr. Md Baharul Islam**  
Associate Professor, Florida Gulf  
Coast University, Florida, USA  
Email: [mislam@fgcu.edu](mailto:mislam@fgcu.edu)

**Dr. A.F.M. Shahen Shah**  
Associate Professor, Yıldız  
Technical University, Istanbul,  
Türkiye  
Email: [shah@yildiz.edu.tr](mailto:shah@yildiz.edu.tr)

#### Co-Chairs:

**Dr. Md Roman Bhuiyan**  
Lecturer, Berlin School of Business  
and Innovation, Berlin, Germany  
Email:  
[roman.bhuiyan@berlinsbi.com](mailto:roman.bhuiyan@berlinsbi.com)

**Dr. Hassan Imani**  
Assistant Professor, Bahçeşehir  
University, Istanbul, Türkiye  
Email:  
[hassan.imani@bau.edu.tr](mailto:hassan.imani@bau.edu.tr)

**Dr. Fahmid Al Farid,**  
Research Professor, Centre for  
Image and Vision Computing  
(CIVC), Multimedia University,  
Selangor, Malaysia. Email:  
[fahmid.farid@mmu.edu.my](mailto:fahmid.farid@mmu.edu.my)

**Dr. Md Imran Hosen** Assistant  
Professor, Istanbul Ticaret  
University, Istanbul, Türkiye,  
Email: [mdihosen@ticaret.edu.tr](mailto:mdihosen@ticaret.edu.tr)

#### Special session title:

#### Visual Attributes, Optimization, and Transmission for Emerging Image and Vision Applications

#### Brief description of the proposed topic (150-300 words):

This special session aims to bring together cutting-edge research focused on the extraction, representation, and utilization of visual attributes in a wide range of computer vision applications. The session particularly emphasizes advances in optimization techniques, efficient visual data transmission, and their integration into real-world systems. We invite original contributions that address theoretical developments, algorithmic innovations, and application-driven solutions at the intersection of visual computing, resource-constrained environments, and transmission-aware vision systems. Topics of interest include but are not limited to:

- Visual attribute extraction and analysis
- Optimization for vision-based tasks (detection, recognition, segmentation, etc.)
- Efficient transmission of visual information (images/videos/streams)
- Lightweight and scalable vision algorithms for deployment
- Real-time and embedded vision applications
- Multimodal attribute fusion and interpretation
- Vision systems for edge/cloud environments

Accepted papers will be submitted for inclusion in IEEE Xplore. Presented papers in this session will also be invited to submit extended versions to the Special Issue titled "Visual Attributes for Computer Vision Applications" in the journal Algorithms (MDPI, Scopus Q2). Submissions must contain at least 30% new material and will undergo peer-review process.

#### Email(s) of chairs:

- *Dr. Md Baharul Islam* ([mislam@fgcu.edu](mailto:mislam@fgcu.edu))
- *Dr. A.F.M. Shahen Shah* ([shah@yildiz.edu.tr](mailto:shah@yildiz.edu.tr))