

MACHINE LEARNING IN VISUAL COMMUNICATION & IMAGE REPRESENTATION

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DESCRIPTION

This special issue emphasizes on the extent to which **Machine Learning in Visual Communication & Image Representation** can help specialists in understanding and analyzing complex images using Machine learning techniques. The field of visual communication and image representation is considered in its broadest sense and covers both digital and analog aspects as well as processing and communication in visual systems. Image representation and communication aims to develop methods and techniques that help analyse and uncover information from images. This involves development of techniques for image analysis, understanding and restoration. Machine learning techniques are effective for Visual Communication and Image representation. Machine learning is a field that is being actively used for image analysis and processing. Deep learning is a fast growing area and is gaining impetus for application in image representation. Therefore, in this special issue the objective is to publish articles related to machine learning including deep learning in various fields of visual communication and image representation.

SCOPE

Topics are included but they are not limited to the following:

- ▶ Image Segmentation
- ▶ Image Pre processing
- ▶ Image Classification
- ▶ Medical image and signal analysis
- ▶ Volumetric image analysis
- ▶ Representation learning for visual data clustering, classification and analysis
- ▶ Unsupervised and semi-supervised methods for image and video analysis based on deep learning
- ▶ Multi-view and cross-view Deep Learning based visual content analysis
- ▶ Embedded Deep Learning systems for visual content analysis
- ▶ Deep learning for 3D Computer Vision
- ▶ Explainable deep learning for visual data analysis
- ▶ Semantic visual analysis: human activity recognition, face/facial expression recognition, scene understanding, object detection and tracking, saliency detection

- ▶ Multimedia data (signal, 2D/3D image, video) analysis in medicine, science and engineering
- ▶ Intelligent Transportation System using traffic images and videos
- ▶ Satellite Image Classification and understanding
- ▶ Content-based image retrieval and image mining
- ▶ Semantic-based image mining
- ▶ Image mining in medical and healthcare informatics
- ▶ Deep Learning Applications in Visual Communications
- ▶ Pattern recognition techniques in the image mining environment
- ▶ Visual data reduction and compression
- ▶ Image coding and video communication
- ▶ Local and global schemes of image representation

HOW TO SUBMIT

Before submission authors should carefully read the Instructions for Authors, which are located [here](#). All submissions to the Special Issue must be made electronically at via online submission system [Editorial Manager](#).

Manuscripts can be written in TeX, LaTeX (strongly recommended) - the journal's [LATEX template](#). Please note that we do not accept papers in Plain TEX format. Text files can be also submitted as standard DOCUMENT (.DOC) which is acceptable if the submission in LATEX is not possible.

All manuscripts will go through the Open Computer Science high standards, quick, fair and comprehensive peer-review procedure. When entering your submission via online submission system please choose the type article Special Issue on **Machine Learning in Visual Communication**

Important dates (approx.):

Deadline for submissions: March 31, 2020

1st round of acceptance notification: April 30, 2020

Submission of revised papers: May 20, 2020

2nd round of acceptance notification: May 30, 2020

Publication online: June 30, 2020

Contributors to the Special Issue will benefit from:

- ▶ **NO submission and publication FEES**
- ▶ **indexation by Clarivate Analytics - Web of Science (ESCI) and Elsevier - SCOPUS**
- ▶ fair and constructive peer review provided by experts in the field
- ▶ **no space constraints**
- ▶ convenient, web-based paper submission and tracking system – Editorial Manager
- ▶ fast online publication upon completing the publishing process
- ▶ better visibility due to Open Access
- ▶ **long-term preservation** of the content (articles archived in Portico)
- ▶ extensive post-publication promotion for selected papers

We are looking forward to your submission.

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