



## AIRAFI 2020

### Special Session on **Applications of Image Recognition in Agriculture and Food Industry**

at the 12<sup>th</sup> International Conference on Multimedia & Network Information Systems (MISSI 2020)

Paris, France, September 1-3, 2021

Conference website: <https://missi.pwr.edu.pl/2020>

### Special Session Organizers

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### Objectives and topics

Image recognition comprises various tools and methods that proved useful in multiple fields of industry. In decades to come, we will face the incrementing demand for food as the human population tends to grow steadily. Therefore, it is crucial to provide novel methods in agriculture and food industry to boost the effectiveness and quality of food production. The application of image processing and recognition in those fields already proved feasible and provided promising effects. This special session aims to promote the most ambitious and innovative approaches and applications in the field of image processing and recognition. We also invite research comprising IoT techniques.

The scope of the AIRAFI2020 includes, but is not limited to the following topics:

- A. Image processing
    - a. Feature Extraction,
    - b. Image Analysis,
    - c. Image Processing Applications,
    - d. Image Segmentation,
    - e. Image Restoration,
    - f. Scene Analysis,
    - g. Texture Analysis,
  - B. Machine learning
    - a. Active Machine Learning,
    - b. Autoencoders,
    - c. Classification and Regression Methods,
    - d. Clustering,
    - e. Convolutional Neural Networks (CNNs),
  - f. Deep Learning,
  - g. Genetic Algorithms,
  - h. Machine Learning Applications,
  - i. Machine Learning,
  - j. Multi-layer Perceptrons,
  - k. Recurrent Neural Networks,
  - l. Supervised, Semi-Supervised and Unsupervised Learning,
  - m. Unsupervised Pretrained Networks (UPNs),
- C. Image recognition
    - a. Object Detection,
    - b. Object Classification,
    - c. Artificial Intelligence.

## Important dates

Submission of papers: **20 March 2021**  
Notification of acceptance: **20 April 2021**  
Registration & payment: **10 May 2021**  
Camera-ready papers: **15 May 2021**  
Conference date: **1-3 September 2021**

## Program Committee

Igor Stadnik, Ukraine  
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*(more members to be invited)*

## Submission

All contributions should be original and not published elsewhere or intended to be published during the review period. Authors are invited to submit their papers electronically in pdf format, through EasyChair. All the special sessions are centralized as tracks in the same conference management system as the regular papers. Therefore, to submit a paper please activate the following link and select the track: **AIRAFI 2020: Special Session on full title.**

<https://easychair.org/conferences/?conf=missi2020>

Authors are invited to submit original previously unpublished research papers written in English, of up to 10 pages, strictly following the AISC format guidelines. Authors can download the Latex (recommended) or Word templates available on [Springer's website](#). Submissions not following the format guidelines will be rejected without review. To ensure high quality, all papers will be thoroughly reviewed by the AIRAFI Special Session 2020 Program Committee. All accepted papers must be presented by one of the authors who must register for the conference and pay the fee. The conference proceedings will be published by Springer in the prestigious series AISC (Advances in Intelligent Systems and Computing).