



## CALL FOR PAPERS - SPECIAL SESSION

### “Application of decision making in Image Analysis based on multiple Neural Networks (DIANN 2022)”

for CODIT’22

May 17-20, 2022 ▪ Istanbul, Turkey

#### Session Co-Chairs:

Prof. Dan Popescu, University POLITEHNICA of Bucharest, Romania - (email : [dan.popescu@upb.ro](mailto:dan.popescu@upb.ro))

Prof. Loretta Ichim, University POLITEHNICA of Bucharest, Romania - (email : [loretta.ichim@upb.ro](mailto:loretta.ichim@upb.ro))

Prof. Cristina Maria Pinotti, University of Perugia, Italy - (email : [cristina.pinotti@unipg.it](mailto:cristina.pinotti@unipg.it))

#### Session description

This special session deals with the problem of the new trends in image analysis based on combining multiple artificial neural networks considering the decision fusion. The goal of the new created such systems is to increase the statistic performances for detection, classification, and segmentation of regions of interest from images. The idea is to transfer the decision of individual classifiers to a global classifier (considered more objective).

The applications of modern and performant neural networks in different domains: environment, industry, medicine, agriculture, transportation, and so on, needs interdisciplinary knowledge and effectively solve many complex problems which are encountered. Today the image processing systems and the image sensors are endowed with intelligence and therefore the modern image analysis systems are based on module cooperation, integration, data augmentation, decision fusion, deep learning, transfer learning, and the use of cloud computing.

The goal is to bring together researchers, engineering and users in different domains which are engaged in resolving problems of distributed monitoring, diagnosis and control with the aid of modern WSN. We invite you to present and discuss advances in the research and development of intelligent image processing based on neural networks.

The topics of interest include, but are not limited to:

- Artificial neural networks,
- Image processing,
- Transfer learning,
- Data augmentation,
- Decision fusion,
- Detection of regions of interest,
- Object classification,
- Image segmentation,
- Applications for monitoring of environmental parameters.

---

## **SUBMISSION**

Papers must be submitted electronically for peer review through PaperCept by **January 07, 2022** : <http://controls.paperccept.net/conferences/scripts/start.pl>. In PaperCept, click on the **CoDIT 2022 link** **“Submit a Contribution to CoDIT 2022” and follow the steps.**

**IMPORTANT:** All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format).

## **DEADLINES**

January 07, 2022: deadline for paper submission

March 4, 2022: notification of acceptance/reject

March 30, 2022: deadline for final paper and registration