



**CALL FOR PAPERS
SPECIAL SESSION ON**

**“Virtual Data for the Cancer Computer-Aided Diagnosis”
for CODIT’18**

April 10-13, 2018 –Thessaloniki, Greece

Session Co-Chairs :

Prof. Nouredine Zerhouni, Femto-St, France
As. Prof. Ryad Zemouri, CNAM/Cedric, France
As. Prof. Zeina Al Masry, Femto-St, France

Session description

This special session deals with the problem of the availability of Medical Data for the Cancer Computer-Aided Diagnosis. Artificial Neural Networks are one of the most machine learning tools used for the cancer diagnosis. However, they need a lot of samples to perform the learning process, especially when deep architectures are used. In medical diagnosis applications, there is a lack of available data. For example, most of the breast cancer diagnosis methods are tested on the Wisconsin Breast Cancer Dataset taken from the University of California at Irvine (UCI) machine learning repository.

The goal of this special session is to discuss about original ideas for the medical computer aided diagnosis when only few data are available. This special session is meant to attract researchers who develop methods, for example dynamic stochastic models or the Markov process to generate some virtual data in order to outperform the learning process for medical diagnosis.

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

- Breast Cancer Computer Aided Diagnosis,
- Deep learning applications for medical diagnosis applications,
- Dynamic stochastic model and Markov process for medical diagnosis applications,

SUBMISSION

Papers must be submitted electronically for peer review through PaperCept by **December 10, 2017**: <http://controls.papercept.net/conferences/scripts/start.pl>. In PaperCept, click on the **CoDIT 2018 link “Submit a Contribution to CoDIT’18” and follow the steps.**

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

December 10, 2017: deadline for paper submission

February 4, 2018: notification of acceptance/reject

February 28, 2018: deadline for final paper and registration.