



10<sup>th</sup> International Conference on Control,  
Decision and Information Technologies

July 01 - 04, 2024

Valletta, Malta

## CALL FOR PAPERS - SPECIAL SESSION

# “Advanced Medical Diagnosis by Data Analysis and Artificial Intelligence”

for **CODIT 2024**

**July 01-04, 2023** ▪ Valletta, Malta

### Session Co-Chairs:

Prof. Jaouher BEN ALI, University of Tunis, Tunisia - (email: [benalijaouher@yahoo.fr](mailto:benalijaouher@yahoo.fr))

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### Session description:

In the last decade, medical diagnosis boomed in research and applications as empowered by advances of artificial intelligence algorithms which enhanced many aspects in medical applications. For a wide ride of applications, crucial machine learning and computer vision tools were used in a wide range of applications. Consequently, deep learning, artificial intelligence (AI) decision making decision making and big data analytics were widely investigated to ensure satisfied experimental results

The goal of this special issue is to explore fusion ideas, algorithms, novel concepts, solutions, and current practices for fostering technological advancements across the medical diagnosis, by considering integration of data analysis solutions and AI algorithms. We welcome original and high-quality works representing conceptual advancements towards solving challenging medical problems, by covering fusion techniques, architectures, machine/deep learning paradigms, hybrid models of image- and sensor-based diagnosis, deep learning, AI, big data analytics as well as optimization techniques over machine learning, robotics and internet of thing (IoT).

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

- Mathematecal models, solutions, and techniques
- Optimized AI algorithms
- Optimized internet of thing (IoT) solutions and applications
- Deep learning for healthcare
- Innovative frameworks of signal and image processing
- Application of machine learning based algorithms and pattern recognition-based systems
- Biomedical signal measurement/sensing and big data processing systems
- Rehabilitation and assistive robotic diagnosis systems
- Short review of medical diagnosis driven systems: present and future

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## SUBMISSION

Papers must be submitted electronically for peer review through PaperCept by **February 03, 2024**: <http://controls.papercapt.net/conferences/scripts/start.pl>. In PaperCept, click on the **CoDIT 2023 link** “Submit a Contribution to CoDIT 2024” 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

February 03, 2024: deadline for paper submission

April 14, 2024: notification of acceptance/reject

May 10, 2024: deadline for final paper and registration