IPTA 2022

International Conference on Image Processing Theory, Tools & Applications

EURASIP

Call For Special Session Proposals

Special Session Chairs:

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Special session Title:

Explainable AI for Medical Imaging

Aims & topics:

Recent advances in medical imaging and deep learning have revolutionized the diagnostic of medical images. Deep learning has become increasingly prevalent and seen as a crucial tool to improve the quality and efficiency of care, allowing more patients to be assessed and treated. It is therefore critical to understand how their predictions correlate with information perception and expert decision-making. Meanwhile, eXplainable Artificial Intelligence (XAI) has emerged as a natural research that seeks to make AI approaches explainable and interpretable.

This special session aims at providing recent developments in the field of machine learning and XAI for medical image analysis.

The topics of this special session include the application of XAI in (not limited to):

- Health and medical data analysis,
- Health and medical image quality assessment and enhancement,
- Health and medical image segmentation,
- Recognition strategies in health and medical imaging,
- Computer aided diagnostic,
- E-health,
- Telemedicine,
- Health and medical image security and content transmission,
- Health and medical applications,

Authors are encouraged to submit their work by providing a paper including results, figures and references following the rules of IPTA'2022.