

Special Session

Functional medical image processing

Co-located with IEEE ATSIP'2016
21-23 March 2016, Monastir-Tunisia

Scope:

Functional imaging (or functional medical imaging), is a method in medical imaging of detecting or measuring changes in metabolism, blood flow, regional chemical composition, and absorption.

As opposed to structural imaging, functional imaging centers on revealing physiological activities within a certain tissue or organ by employing medical image modalities that very often use tracers or probes to reflect spatial distribution of them within the body. These tracers are often analogous to some chemical compounds, like glucose, within the body. To achieve this, isotopes are used because they have similar chemical and biological characteristics. By appropriate proportionality, the doctors or radiologists can determine the real intensity of certain substance within the body to evaluate the risk or danger of developing some diseases.

The session “**Functional medical image processing**” will be an opportunity to exchange the results of research, new developed techniques in this research field with promising prospects. The session welcomes papers on the following (but not limited to) research topics:

- Positron emission tomography (PET)
- Functional magnetic resonance imaging (fMRI)
- Single photon emission computed tomography (SPECT)
- Computed tomography (CT) perfusion imaging
- Optical imaging

Special Session Chairs:

- Dr. Lamia SELLAMI, ISBS, Tunisia & & (email: lsellami@yahoo.com)
- Dr. Nawres KHLIFA, ISTM, Tunis, Tunisia
- Dr. Khalil Chtourou, CHU SFAX, TUNISIE

Important Dates:

Paper submission deadline:	January 1st, 2016
Acceptance Notification:	January 15th, 2016
Camera Ready:	February 1st, 2016
Author's Registration Deadline :	February 15th, 2016

For any query related to the special session, please contact Dr. Lamia SELLAMI at lsellami@yahoo.com