



Call-for-papers

Artificial Intelligence in Medicine



Special Issue on Artificial Intelligence Approaches for Speech, Image, and Signal Processing in Medicine

Recently, the scientific community has witnessed the development of new and emergent algorithms for speech, image and signal processing. Most of the times, these algorithms are based on artificial intelligence approaches. There is no doubt that medicine is one particular field of science which can certainly benefit from this advancement. In this special issue, the focus is, therefore, on **new and emergent signal processing techniques, based on artificial intelligence approaches, for use in medicine.**

List of Topics:

The intention is to receive articles covering the following topics:

- **new and emergent** artificial neural networks architectures,
- **new and emergent** training procedures for artificial neural networks,
- **new and emergent** approaches based on artificial intelligence,
- **new and emergent** paradigms,
- **new and emergent** fuzzy systems,
- other new and emergent related topics,

with **direct applications in medicine**, particularly for:

- voice disorders identification and classification,
- phonocardiogram analysis,
- speech enhancement for hearing aids,
- analysis of neurophysiological signals,
- electroencephalogram (EEG) analysis,
- electrocardiogram (ECG) analysis,
- electromyography (EMG) analysis,
- electrogastrogram (EGG) analysis,
- de-noising for medical signals and images,
- mammograms analysis,
- medical image enhancement,
- magnetic resonance and tomography,
- Doppler ultrasound,
- estimation of pulmonary micro-vascular pressure,
- other related topics.

Schedule:

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| • Submission Deadline:..... | February 27, 2009. |
| • Completion of First Round of Reviews:..... | May 1, 2009. |
| • Major Revisions Due:..... | June 26, 2009. |
| • Completion of Second Round of Reviews:..... | July 31, 2009. |
| • Minor Revisions Due:..... | August 28, 2009. |
| • Final Decisions Due:..... | September 4, 2009. |
| • Acceptance Letters Sent to Authors:..... | September 7, 2009 . |
| • Tentative Publication Date in ScienceDirect:... | December, 2009. |

Submission Procedure: To prepare your article, please, follow the same general guidelines for regular papers, available at <http://ees.elsevier.com/aiim/>, and submit the article, by e-mail, directly to the guest-editor at guido@ifsc.usp.br with the subject **Special_Issue_SISPIM**.

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