

Symposium Chairs:

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Program Committee:

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A symposium on “**Bio-signal Processing and Networked Sensors in Healthcare**” will be held in conjunction with the 3rd International Conference on Intelligent Sensors, Sensor Networks and Information Processing - 2007 (**ISSNIP 2007**), Melbourne, Australia during December 3-6, 2007. The symposium will focus specifically on intelligent sensors, signal processing and smart systems for healthcare applications; from biomedical diagnostic to online patient monitoring. The symposium is running under the umbrella of the ARC Research Network on Sensor Networks (www.sensornetworks.net.au).

The convergence of biomedical sensors, sensor networks and information processing creates exciting opportunities for solving a variety of complex problems in healthcare. The aim of this symposium is to report research and recent developments in applications of scientific principles and technologies to biomedical engineering and healthcare. The program committee is soliciting papers for the following (but not limited) areas:

- Bio-inspired models
- Biomechanics and biometrics for health applications
- Bio-signals, signal processing and nonlinear analysis
- Biosensors, sensor design, sensor fusion for improved diagnosis
- Computational intelligence (Neural networks, fuzzy logic, genetic algorithms, support vector machines and hybrid systems) for biomedical applications
- Gait and movement analysis
- Medical imaging and diagnosis
- Patient tracking and monitoring

Areas of application (not limited to):

- Disease diagnosis (cardiovascular, neuromuscular, cerebral, gait, sleep apnea, fetal health)
- Ageing healthcare (falls prevention in the elderly, Stroke, Parkinson's and other pathologies)
- Healthcare monitoring systems
- Human computer interface
- Rehabilitation

Paper length should be 4-6 pages of A4 size and follow the conference format which can be found at (www.issnip.org/2007/authors.html). All papers are to be submitted via the online submission system at www.issnip.org and will undergo blind peer-review prior to acceptance.

Conference Dates: December 3-6, 2007

Submission Deadline: July 31, 2007

Notification of acceptance: August 31, 2007

Camera ready manuscript: September 17, 2007