

Special Issue on Applications of Computational Intelligence in Health Informatics

Call for Papers

Health (or medical) *informatics* can be described briefly as “the application of computers in medicine.” A more detailed definition includes development of tools for management, process control, decision making, and scientific analysis of medical knowledge. Clinical data including medical images and their preprocessing and classification, public health informatics, and bioinformatics are some of subfields in this matter. Health informatics datasets are often collected in multiple resolutions, and modalities and are high-dimensional, redundant, incomplete, and partially contradictory. Knowledge management and data analysis in such situations is a quite challenging task. The application of computational intelligence is very useful in this field because such methods are capable of working with incomplete data and producing the conclusions from data in a nonanalytic and nonalgorithmic manner.

For this special issue, authors are invited to submit original research articles as well as review articles that will stimulate the continuation of the efforts in developing new tools for classification, management, and decision support in health informatics. Potential topics include, but are not limited to:

- Clinical data and image preprocessing and classification
- High-throughput data mining
- Intelligent decision support systems
- Inference from consistent and unreliable data
- Privacy-constrained data analysis
- Analysis of distributed data
- Patient care and monitoring systems including telemedicine
- The use of new mobile devices in health informatics

Before submission authors should carefully read over the journal's Author Guidelines, which are located at <http://www.hindawi.com/journals/aans/guidelines/>. Prospective authors should submit an electronic copy of their complete manuscript through the journal Manuscript Tracking System at <http://mts.hindawi.com/> according to the following timetable:

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