

Special Issue on

Recent Applications of Computational Intelligence and Soft Computing In Remote Sensing and Geographic Information System and Sciences

CALL FOR PAPERS

Remote Sensing (RS) and Geographical Information System (GIS) are two of the important sources for providing, extracting, and managing valuable information regarding the earth. For providing, extracting, and managing valuable information, researchers and scientists employ several methods, algorithms, and techniques. Among existing methods, algorithms, and techniques, computational intelligence and soft computing ones are very popular, efficient, and robust. Computational intelligence and soft computing are powerful paradigms to provide, extract, and manage earth's information. Computational intelligence and soft computing comprise a wide range of methods including evolutionary and bioinspired computation, stochastic methods, machine learning, neural networks, deep learning, and fuzzy logic.

In this special issue, we attempt to integrate novel computational intelligence and soft computing techniques on earth sciences, especially RS and GIS. We invite authors to contribute high quality researches that demonstrate successful application of computational intelligence methods in RS and GIS sciences.

Potential topics include but are not limited to the following:

- ▶ Extracting and providing information from optical remotely sensed data using computational intelligence and soft computing techniques
- ▶ Deep learning and its application in RS and GIS
- ▶ Extracting and providing information from hyperspectral remotely sensed data using computational intelligence and soft computing techniques
- ▶ The application of augmented and virtual reality in RS
- ▶ Extracting and providing information from Synthetic Aperture Radar (SAR) remotely sensed data using computational intelligence and soft computing techniques
- ▶ Extracting and providing information from Unmanned Aerial Vehicle (UAV) remotely sensed data using computational intelligence and soft computing techniques
- ▶ Managing and extracting information and knowledge from GISs
- ▶ Soft computing-based classification and decision making systems
- ▶ The application of computational intelligence and soft computing techniques in managing natural hazards
- ▶ The application of computational intelligence and soft computing techniques in urban and nonurban areas
- ▶ Extracting and providing information from high resolution remotely sensed data using Geographic-Object-Based Image Analysis (GEOBIA)

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