

<<智能计算与应用>>

图书基本信息

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前言

The 3rd International Symposium on Intelligence Computation and Applications (ISICA 2008) will be held in the China University of Geosciences (Wuhan), Wuhan, China, on December 19-21, 2008 and followed the tradition already established by the last two ISICA conferences were held in Wuhan in 2005 and 2007. A major goal of ISICA is to bring together experts on intelligent computation from around the world, and to provide a leading international forum for the dissemination of original research results in intelligence computation, real-world application, algorithms, software and systems, and different applied disciplines with potential in intelligence computation. ISICA conferences are one of the first series of international conferences on computational intelligence that combines elements of learning, adaptation, evolution and fuzzy logic to create programs as alternative solutions to artificial intelligence. The proceedings of ISICA conferences have a number of unique features including uniqueness, newness, successfulness, and broadness. The proceedings of ISICA conferences have been accepted into the Index to Scientific and Technical Proceedings (ISTP), while ISICA 2007 proceedings published by Springer have also been indexed by Engineering Information (EI). Following the success of ISICA 2005 and ISICA 2007, ISICA 2008 made good progress on analyzing and processing massive real-time data by computational intelligence. ISICA 2008 featured the most up-to-date research in computational intelligence, evolutionary computation, evolutionary multi-objective and dynamic optimization, evolutionary learning systems, neural networks, classification and recognition, bioinformatics and bioengineering, evolutionary data mining and knowledge discovery, intelligent GIS and control, theory of intelligent computation, combinational and numerical optimization, and real-world applications. ISICA 2008 provided a venue to foster technical exchanges, renew everlasting friendships, and establish new connections.

内容概要

The 3rd International Symposium on Intelligence Computation and Applications (ISICA 2008) will be held in the China University of Geosciences (Wuhan) , Wuhan , China , on December 19-21 , 2008 and followed the tradition already established by the last two ISICA conferences were held in Wuhan in 2005 and 2007. A major goal of ISICA is to bring together experts on intelligent computation from around the world , and to provide a leading international forum for the dissemination of original research results in intelligence computation , real-world application , algorithms , software and systems , and different applied disciplines with potential in intelligence computation. ISICA conferences are one of the first series of international conferences on computational intelligence that combines elements of learning , adaptation , evolution and fuzzy logic to create programs as alternative solutions to artificial intelligence. The proceedings of ISICA conferences have a number of unique features including uniqueness , newness , successfulness , and broadness. The proceedings of ISICA conferences have been accepted into the Index to Scientific and Technical Proceedings (ISTP) , while ISICA 2007 proceedings published by Springer have also been indexed by Engineering Information (EI) .

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章节摘录

插图：Abstract——The multiform earthsurfaces in Northwest of Yun-nan, which has complex condition of climate and geology, can not be accurately classified and identified by traditional multispectral image due to its resolution limitation in spectral and space, especially under the condition that precise geological survey, training set and rule base building are insufficient or absent. Hyperspectral image with plenty of continuous spectral information can overcome the limitation. In this paper the Hyperion image, a sort of hyperspectral image, makes good use of abundant correlatively spectral information and makes it possible to classify and efficiently distinguish the sub-pixel of earth surface in Northwest of Yun-nan. In order to extract sub-pixels automatically without any experiential knowledge, the article applies Iterative Error Analysis algorithm to hyperspectral image to obtain various sub-pixels' spectral information in northwest of Yun-nan that can not easily be distinguished generally, such as road, jokul, sandstone etc. In the experiment, a series of preprocessing to the Hyperion image is firstly implemented and the sub-pixels are then extracted by iterative error analysis algorithm. Finally fractional abundance maps of mixed pixels are calculated and sub-pixels are quantified. Through our implementation, the purpose of quantization and identification of sub-pixels and unmixing of pixels in northwest of Yun-nan is achieved without any experiential knowledge. The paper illuminates that using iterative error analysis algorithm, the sub-pixel of complicated northwest of Yun-nan's earth surface can be effective classified and identified unsupervisedly with Hyperion data, and the experiment provides an ideal and practical method to detect sub-pixel automatically in the absence of experimental data.

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