



Soft Computing Applications

Proceedings of the 6th International Workshop Soft Computing Applications (SOFA 2014), Volume 1

Editors: **Balas**, Valentina Emilia, **Jain**, Lakhmi C., **Kovačević**, Branko (Eds.)

Presents recent applications of Soft Computing

Proceedings of the 6th International Workshop Soft Computing Applications (SOFA 2014), held July 24-26, 2014 in Timisoara, Romania

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These volumes constitute the Proceedings of the 6th International Workshop on Soft Computing Applications, or SOFA 2014, held on 24-26 July 2014 in Timisoara, Romania. This edition was organized by the University of Belgrade, Serbia in conjunction with Romanian Society of Control Engineering and Technical Informatics (SRAIT) - Arad Section, The General Association of Engineers in Romania - Arad Section, Institute of Computer Science, Iasi Branch of the Romanian Academy and IEEE Romanian Section.

The Soft Computing concept was introduced by Lotfi Zadeh in 1991 and serves to highlight the emergence of computing methodologies in which the accent is on exploiting the tolerance for imprecision and uncertainty to achieve tractability, robustness and low solution cost. Soft computing facilitates the use of fuzzy logic, neurocomputing, evolutionary computing and probabilistic computing in combination, leading to the concept of hybrid intelligent systems. The combination of such intelligent systems tools and a large number of applications introduce a need for a synergy of scientific and technological disciplines in order to show the great potential of Soft Computing in all domains.

The conference papers included in these proceedings, published post conference, were grouped into the following area of research:

· Image, Text and Signal Processing

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Intelligent Transportation

Modeling and Applications

Biomedical Applications

Neural Network and Applications

Knowledge-Based Technologies for Web Applications, Cloud Computing, Security, Algorithms and Computer Networks

Knowledge-Based Technologies

Soft Computing Techniques for Time Series Analysis

Soft Computing and Fuzzy Logic in Biometrics

Fuzzy Applications Theory and Fuzzy Control

Business Process

Management

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The volumes provide useful information to professors, researchers and graduated students in area of soft computing techniques and applications, as they report new research work on challenging issues.



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Balas, V.E.; Jain, L.C.; Kovačević, B. (Eds.)

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