

Editura Risoprint

Soft Computing Applications Valentina Emilia Balas

Soft Computing Applications *Valentina Emilia Balas*

these two volumes constitute the proceedings of the 7th international workshop on soft computing applications sofa 2016 held on 24 26 august 2016 in arad romania this edition was organized by aurel vlaicu university of arad romania university of belgrade serbia in conjunction with the institute of computer science iasi branch of the romanian academy ieee romanian section romanian society of control engineering and technical informatics srait arad section general association of engineers in romania arad section and btm resources arad 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 lower costs soft computing facilitates the combined use of fuzzy logic neurocomputing evolutionary computing and probabilistic computing leading to the concept of hybrid intelligent systems the rapid emergence of new tools and applications calls for a synergy of scientific and technological disciplines in order to reveal the great potential of soft computing in all domains the conference papers included in these proceedings published post conference were grouped into the following areas of research methods and applications in electrical engineering knowledge based technologies for applications cloud computing security algorithms and computer networks biomedical applications image text and signal processing machine learning and applications business process management fuzzy applications theory and fuzzy control computational intelligence in education soft computing fuzzy logic in biometrics scflb soft computing algorithms applied in economy industry and communication technology modelling and applications in textiles the book helps to disseminate advances in selected active research directions in the field of soft computing along with current issues and applications of related topics as such it provides valuable information for professors researchers and graduate students in the area of soft computing techniques and applications

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