

Soft Computing Applications



Advances in Soft Computing

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PREFACE

This volume is a collection of some selected and edited contributions presented at the Fourth Italian Workshop on Fuzzy Logic, held in Milan on September 2001. Although the name of the workshop refers to Fuzzy Logic only (this choice was made to give a continuity to an initiative founded six years ago), the call for papers asked for papers in the more general area of “soft computing” techniques, thus including contributions also concerning the theory and applications of Neural Networks and Evolutionary Computation.

This series of workshops was conceived to the aim of offering to both research institutions and industry a forum where to discuss and exchange ideas concerning the problem of defining “flexible” and “intelligent” systems, able to learn models: data models, the users’ behaviour or the environment features in general. Soft Computing techniques are naturally suited and exploited to implement such systems.

The topics covered by the selected papers witness the actual research trend towards an integration of distinct formal techniques for defining flexible systems. The contributions in this volume mainly concern the definition of systems in several application fields, such as image processing, control, asset allocation, medicine, time series forecasting, qualitative modeling, support to design, reliability analysis, diagnosis, filtering, data analysis, land mines detection and so forth.

September 2002

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