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Soft Computing for Machine Learning and Bioinformatics

By Haider Banka

VDM Verlag Dr. Müller E.K. Nov 2012, 2012. Taschenbuch. Book Condition: Neu. 220x150x12 mm. Neuware - Hybridization using different soft computing tools has been explored for efficient data mining, clustering, and classification. An evolutionary-rough feature selection algorithm has been developed for feature selection and classification of gene expression patterns. Next A detailed clustering algorithm is developed by integrating the advantage of both rough and fuzzy set theories. The remaining three chapters are devoted for biclustering problem. The whole work of this book is divided into the following: i) Mining important features from high dimensional gene datasets; ii) Biclustering or local structure determination in gene expression data using soft tools; iii) Collaborative clustering for global structure determination in large data; iv) Covering various machine learning and bioinformatics applications using soft computing; and v) A special chapter is written for designing a new paradigm for optimization. The book focuses on some applications of the newly developed soft computing based methodologies for machine learning, optimization, and bioinformatic Problems. The book covers how to design a hybrid system for real life problem solving. 200 pp. Englisch.



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