



Stratified Data Partitioning in Artificial Neural Network

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Book Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | A Data Clustering Algorithm for Stratified Data Partitioning in Artificial Neural Network | The statistical properties of training, validation and test data play an important role in assuring optimal performance in artificial neural networks (ANN). Researchers have proposed randomized data partitioning (RDP) and stratified data partitioning (SDP) methods for partition of input data into training, validation and test datasets. In this book we discuss the shortcomings and advantages of these methods. Eventually we propose a data clustering algorithm to overcome the drawbacks of the reported data partitioning algorithms. Comparisons have been made using three benchmark case studies, one each from classification, function ap-proximation and prediction domain respectively. The proposed CDCA data partitioning method was evaluated in comparison with Self organizing map, fuzzy clustering and genetic algorithm based data partitioning methods. It was found that the CDCA data partitioning method not only performed well but also reduced the average CPU time. | Format: Paperback | Language/Sprache: english | 116 pp.

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