Article

Application of Neurocomputing for Data Approximation and Classification in Wireless Sensor Networks

Amir Jabbari *, Reiner Jedermann, Ramanan Muthuraman and Walter Lang

Department of Electrical Engineering, Institute of Micro sensors, Actuators and Systems (IMSAS), University of Bremen, NW1 Building, D-28359 Bremen, Germany

* Author to whom correspondence should be addressed; E-Mail: ajabbari@imsas.uni-bremen.de; Tel. +49-421-218-7353; Fax: +49-421-218-4774

Abstract: A new application of neurocomputing for data approximation and classification is introduced to process data in a wireless sensor network. For this purpose, a simplified dynamic sliding backpropagation algorithm is implemented on a wireless sensor network for transportation applications. It is able to approximate temperature and humidity in sensor nodes. In addition, two architectures of "radial basis function" (RBF) classifiers are introduced with probabilistic features for data classification in sensor nodes. The applied approximation and classification algorithms could be used in similar applications for data processing in embedded systems.

Keywords: Radial basis function; back propagation; wireless sensor network; distributed Data approximation and classification.

1. Introduction

There are different means of transporting products between cities and countries worldwide. According to the type and importance of the transported products, certain requirements are considered in the selection and supervision of transportation systems [1]. The use of wireless sensor networks to record environmental conditions such as temperature and humidity during the transport of sensitive goods and products has increased considerably [2,3]. After measuring environmental conditions, data are sent for processing and decision-making; in advanced transportation systems, key decisions are made in measurement systems in a distributed manner [4]. The use of distributed data processing

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forecasting of practical industrial process by employing machine learning and statistics methodologies Related case studies especially on energy systems in the steel industry are also addressed and analyzed The case studies in this volume are entirely rooted in both classical data driven prediction problems and industrial practice requirements Detailed figures and tables demonstrate the effectiveness and generalization of the methods addressed and the classifications of the addressed prediction problems come from practical industrial demands rather than from academic categories As such readers will learn the corresponding approaches for resolving their industrial technical problems Although the contents of this book and its case studies come from the steel industry these techniques can be also used for other process industries This book appeals to students researchers and professionals within the machine learning and data analysis and mining communities **Data Mining Methods for Knowledge Discovery** Krzysztof J. Cios,Witold Pedrycz,Roman W. Swiniarski,2012-12-06 Data Mining Methods for Knowledge Discovery provides an introduction to the data mining methods that are frequently used in the process of knowledge discovery This book first elaborates on the fundamentals of each of the data mining methods rough sets Bayesian analysis fuzzy sets genetic algorithms machine learning neural networks and preprocessing techniques The book then goes on to thoroughly discuss these methods in the setting of the overall process of knowledge discovery Numerous illustrative examples and experimental findings are also included Each chapter comes with an extensive bibliography Data Mining Methods for Knowledge Discovery is intended for senior undergraduate and graduate students as well as a broad audience of professionals in computer and information sciences medical informatics and business information systems

Fuzzy System and Data Mining G. Chen,F. Liu,M. Shojafar,2016-04-14 Fuzzy logic is widely used in machine control The term fuzzy refers to the fact that the logic involved can deal with concepts that cannot be expressed as either true or false but rather as partially true Fuzzy set theory is very suitable for modeling the uncertain duration in process simulation as well as defining the fuzzy goals and fuzzy constraints of decision making It has many applications in industry engineering and social sciences This book presents the proceedings of the 2015 International Conference on Fuzzy Systems and Data Mining FSDM2015 held in Shanghai China in December 2015 The application domain covers geography biology economics medicine the energy industry social science logistics transport industrial and production engineering and computer science The papers presented at the conference focus on topics such as system diagnosis rule induction process simulation control and decision making They include papers on solving practical problems with intelligent algorithms statistical analysis classification and clustering and association rule learning They also reflect the frontier in data mining research and address the challenges posed to data analytics research by the increasingly large datasets yielded by many application domains together with new types of unstructured data The book provides an overview of the ways in which fuzzy theory and data mining principles are applied in various fields and will be of interest to all those who work in either the theory or practice of fuzzy systems and data mining *Advanced Computing Applications, Databases and Networks* S.A Begum,2011-05-13

ADVANCED COMPUTING APPLICATIONS DATABASES AND NETWORKS focuses on new developments and advances in three major areas of Computer Science The first part presents some significant contributions and surveys major research areas of Advanced Computing Applications viz Natural Language Processing Medical Imaging Soft Computing Methodologies and a wide variety of its application domains The second part explains different approaches towards development of Unified Theoretical Model for Database Mining Dimension Reduction of higher dimensional data and the applicability of Soft Computing Methodologies in Data Mining and Clustering The third part provides the approaches taken to address the challenging problems in the areas of Wired and Wireless Networks The chapters in this volume are representative of recent research efforts and advances in the area of Advanced Computing Applications Databases and Networks covering both theoretical and application issues *Proceedings of ELM-2015 Volume 1* Jiuwen Cao,Kezhi Mao,Jonathan Wu,Amaury Lendasse,2015-12-31 This book contains some selected papers from the International Conference on Extreme Learning Machine 2015 which was held in Hangzhou China December 15 17 2015 This conference brought together researchers and engineers to share and exchange R D experience on both theoretical studies and practical applications of the Extreme Learning Machine ELM technique and brain learning This book covers theories algorithms ad applications of ELM It gives readers a glance of the most recent advances of ELM **Advances in Big Data Analytics** Yong Shi,2022-01-13 Today big data affects countless aspects of our daily lives This book provides a comprehensive and cutting edge study on big data analytics based on the research findings and applications developed by the author and his colleagues in related areas It addresses the concepts of big data analytics and or data science multi criteria optimization for learning expert and rule based data analysis support vector machines for classification feature selection data stream analysis learning analysis sentiment analysis link analysis and evaluation analysis The book also explores lessons learned in applying big data to business engineering and healthcare Lastly it addresses the advanced topic of intelligence quotient IQ tests for artificial intelligence divSince each aspect mentioned above concerns a specific domain of application taken together the algorithms procedures analysis and empirical studies presented here offer a general picture of big data developments Accordingly the book can not only serve as a textbook for graduates with a fundamental grasp of training in big data analytics but can also show practitioners how to use the proposed techniques to deal with real world big data problems **Computational Mechanics for the Twenty-first Century** B. H. V. Topping,2000 Includes invited lectures presented at The Fifth International Conference on Computational Structures Technology and The Second International Conference on Engineering Computational Technology held in Belgium September 2000 It includes contributions from KJ Bathe JL Chenot D Chapelle C Cinquini M Cross G De Roeck and many others 36th Aerospace Sciences Meeting & Exhibit ,1998 *Photonics Applications in Industry and Research IV* ,2005 **Applications and Science of Computational Intelligence** ,1999 Optimization with Data Perturbations II Doug E. Ward,2001 Digital Signal Processing Applications ,1997 26th

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