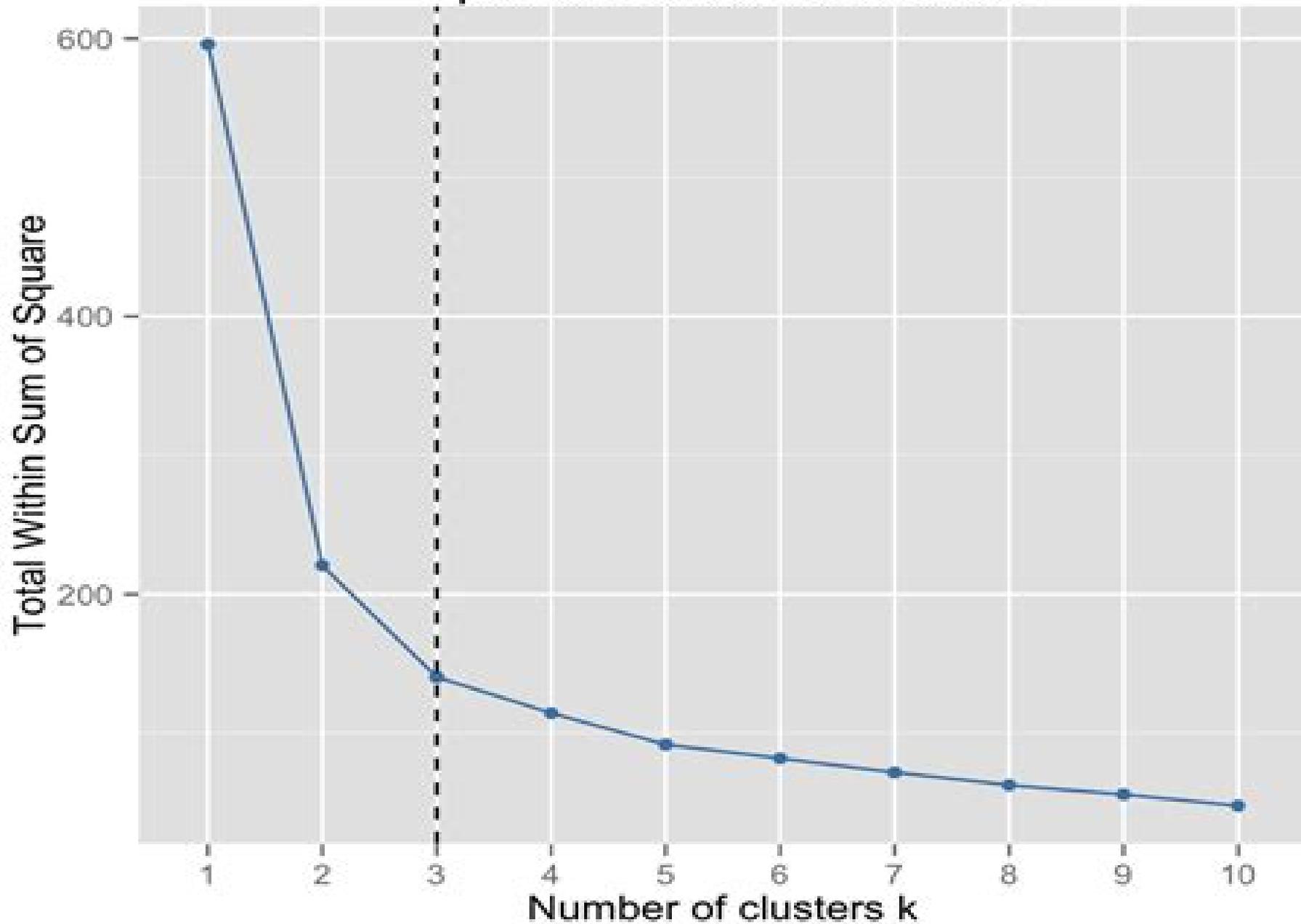


Optimal number of clusters



Determining The Optimal Number Of Clusters With The

**Suresh Chandra Satapathy, P S
Avadhani, Ajith Abraham**



Determining The Optimal Number Of Clusters With The:

Hybrid Competitive Learning Method Using the Fireworks Algorithm and Artificial Neural Networks Fevrier Valdez, Juan Barraza, Patricia Melin, 2023-11-25 This book focuses on the fields of neural networks swarm optimization algorithms clustering and fuzzy logic This book describes a hybrid method with three different techniques of intelligence computation neural networks optimization algorithms and fuzzy logic Within the neural network techniques competitive neural networks CNNs are used for the optimization algorithms technique we used the fireworks algorithm FWA and in the area of fuzzy logic the Type 1 Fuzzy Inference Systems T1FIS and the Interval Type 2 Fuzzy Inference Systems IT2FIS were used with their variants of Mamdani and Sugeno type respectively FWA was adapted for data clustering with the goal to help of competitive neural network to find the optimal number of neurons It is important to mention that two variants were applied to the FWA dynamically adjust of parameters with Type 1 Fuzzy Logic FFWA as the first one and Interval Type 2 F2FWA as the second one Subsequently based on the outputs of the CNN and with the goal of classification data we designed Type 1 and Interval Type 2 Fuzzy Inference Systems of Mamdani and Sugeno type This book is intended to be a reference for scientists and engineers interested in applying a different metaheuristic or an artificial neural network in order to solve optimization and applied fuzzy logic techniques for solving problems in clustering and classification data This book is also used as a reference for graduate courses like the following soft computing swarm optimization algorithms clustering data fuzzy classify and similar ones We consider that this book can also be used to get novel ideas for new lines of research new techniques of optimization or to continue the lines of the research proposed by the authors of the book

Proceedings of the International Conference on Information Systems Design and Intelligent Applications 2012 (India 2012) held in Visakhapatnam, India, January 2012 Suresh Chandra Satapathy, P S Avadhani, Ajith Abraham, 2011-12-14 This volume contains the papers presented at INDIA 2012 International conference on Information system Design and Intelligent Applications held on January 5 7 2012 in Vishakhapatnam India This conference was organized by Computer Society of India CSI Vishakhapatnam chapter well supported by Vishakhapatnam Steel RINL Govt of India It contains 108 papers contributed by authors from six different countries across four continents These research papers mainly focused on intelligent applications and various system design issues The papers cover a wide range of topics of computer science and information technology discipline ranging from image processing data base application data mining grid and cloud computing bioinformatics among many others The various intelligent tools like swarm intelligence artificial intelligence evolutionary algorithms bio inspired algorithms have been applied in different papers for solving various challenging IT related problems

Proceedings of the Fifth SIAM International Conference on Data Mining Hillol Kargupta, 2005-04-01 The Fifth SIAM International Conference on Data Mining continues the tradition of providing an open forum for the presentation and discussion of innovative algorithms as well as novel applications of data mining Advances in information technology and data

collection methods have led to the availability of large data sets in commercial enterprises and in a wide variety of scientific and engineering disciplines The field of data mining draws upon extensive work in areas such as statistics machine learning pattern recognition databases and high performance computing to discover interesting and previously unknown information in data This conference results in data mining including applications algorithms software and systems Advances in Neuro-Information Processing Mario Köppen, Nikola Kasabov, George Coghill, 2009-07-10 The two volume set LNCS 5506 and LNCS 5507 constitutes the thoroughly refereed post conference proceedings of the 15th International Conference on Neural Information Processing ICONIP 2008 held in Auckland New Zealand in November 2008 The 260 revised full papers presented were carefully reviewed and selected from numerous ordinary paper submissions and 15 special organized sessions 116 papers are published in the first volume and 112 in the second volume The contributions deal with topics in the areas of data mining methods for cybersecurity computational models and their applications to machine learning and pattern recognition lifelong incremental learning for intelligent systems application of intelligent methods in ecological informatics pattern recognition from real world information by svm and other sophisticated techniques dynamics of neural networks recent advances in brain inspired technologies for robotics neural information processing in cooperative multi robot systems

ISCS 2014: Interdisciplinary Symposium on Complex Systems Ali Sanayei, Otto E. Rössler, Ivan Zelinka, 2014-08-28 The book you hold in your hands is the outcome of the 2014 Interdisciplinary Symposium on Complex Systems held in the historical city of Florence The book consists of 37 chapters from 4 areas of Physical Modeling of Complex Systems Evolutionary Computations Complex Biological Systems and Complex Networks All 4 parts contain contributions that give interesting point of view on complexity in different areas in science and technology The book starts with a comprehensive overview and classification of complexity problems entitled Physics in the world of ideas Complexity as Energy followed by chapters about complexity measures and physical principles its observation modeling and its applications to solving various problems including real life applications Further chapters contain recent research about evolution randomness and complexity as well as complexity in biological systems and complex networks All selected papers represent innovative ideas philosophical overviews and state of the art discussions on aspects of complexity The book will be useful as an instructional material for senior undergraduate and entry level graduate students in computer science physics applied mathematics and engineering type work in the area of complexity The book will also be valuable as a resource of knowledge for practitioners who want to apply complexity to solve real life problems in their own challenging applications *Proceedings of International Conference on Communication and Networks* Nilesh Modi, Pramode Verma, Bhushan Trivedi, 2017-04-07 The volume contains 75 papers presented at International Conference on Communication and Networks COMNET 2015 held during February 19 20 2016 at Ahmedabad Management Association AMA Ahmedabad India and organized by Computer Society of India CSI Ahmedabad Chapter Division IV and Association of Computing Machinery ACM Ahmedabad Chapter The

book aims to provide a forum to researchers to propose theory and technology on the networks and services share their experience in IT and telecommunications industries and to discuss future management solutions for communication systems networks and services It comprises of original contributions from researchers describing their original unpublished research contribution The papers are mainly from 4 areas Security Management and Control Protocol and Deployment and Applications The topics covered in the book are newly emerging algorithms communication systems network standards services and applications

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New Approaches in Classification and Data Analysis E. Diday,1994-11-10 The subject of this book is the analysis and processing of structural or quantitative data with emphasis on classification methods new algorithms as well as applications in various fields related to data analysis and classification The book presents the state of the art in world wide research and application of methods from the fields indicated above and consists of survey papers as well as research papers

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