

Artificial Neural Networks in Cancer Diagnosis, Prognosis, and Patient Management

% decision making re prognostic classes for a new cancer patient "X"
% by means of radial basis function neural networks (rbfnns)

```
for c=1:number_of_prognostic_classes
```

```
    a_3=0;
```

```
    for j=1:number_of_rbfnn_centers
```

```
        a_1 = 0;
```

```
        for i=1:number_of_factors
```

```
            a_1 = a_1 + (X(i)-rbfnn_center(i,j))^2;
```

```
            rbfnn_weight(c,j) = exp(-a_1/2);
```

```
            a_2 = a_2 + rbfnn_weight(c,j);
```

```
            a_3 = a_3 + rbfnn_weight(c,j)^2;
```

```
            a_4(c) = a_2 * rbfnn_bias(c);
```

```
        end
```

```
    end
```

```
% This line decides the class of cancer prognosis
```

```
% to which the patient X belongs by taking maximum value of a_4
```

```
%
```

```
[confidence_value, class_of_cancer_prognosis] = max(a_4)
```

Edited by
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Gajanan V. Sherbet

Artificial Neural Networks In Cancer Diagnosis Prognosis And Patient Management

Azzam F.G. Taktak, Anthony C. Fisher



Artificial Neural Networks In Cancer Diagnosis Prognosis And Patient Management:

Artificial Neural Networks in Cancer Diagnosis, Prognosis, and Patient Management R N G Naguib,G. V. Sherbet,2019-12
The potential value of artificial neural networks ANN as a predictor of malignancy has begun to receive increased recognition Research and case studies can be found scattered throughout a multitude of journals Artificial Neural Networks in Cancer Diagnosis Prognosis and Patient Management brings together the work of top researchers primarily clinicians who present the results of their state of the art work with ANNs as applied to nearly all major areas of cancer for diagnosis prognosis and management of the disease The book introduces the theory of neural networks and the method of their application in oncology It is not an exercise in ANN research but the presentation of a new technique for diagnosing and determining the treatment of cancers The authors have included almost all cancers for which there exist ANN applications When the data available is ill defined and the development of an algorithmic solution difficult neural networks provide a non linear approach which helps sift through the maze of information and arrive at a reasonable solution Highly interdisciplinary in nature this book provides comprehensive coverage of the most important materials relating to the applications of ANNs in the cancer field With contributions from prominent research centers worldwide it serves as an introduction to how neural networks can be used for accurate prediction or diagnosis and shows why neural networks are more accurate Artificial Neural Networks in Cancer Diagnosis Prognosis and Patient Management gives you an understanding of this new tool its applications and when it should be used Artificial Neural Networks in Cancer Diagnosis, Prognosis, and Patient Management R. N. G. Naguib,G. V. Sherbet,2001-06-22 The potential value of artificial neural networks ANN as a predictor of malignancy has begun to receive increased recognition Research and case studies can be found scattered throughout a multitude of journals Artificial Neural Networks in Cancer Diagnosis Prognosis and Patient Management brings together the work of top researchers primaril

Outcome Prediction in Cancer Azzam F.G. Taktak,Anthony C. Fisher,2006-11-28 This book is organized into 4 sections each looking at the question of outcome prediction in cancer from a different angle The first section describes the clinical problem and some of the predicaments that clinicians face in dealing with cancer Amongst issues discussed in this section are the TNM staging accepted methods for survival analysis and competing risks The second section describes the biological and genetic markers and the r le of bioinformatics Understanding of the genetic and environmental basis of cancers will help in identifying high risk populations and developing effective prevention and early detection strategies The third section provides technical details of mathematical analysis behind survival prediction backed up by examples from various types of cancers The fourth section describes a number of machine learning methods which have been applied to decision support in cancer The final section describes how information is shared within the scientific and medical communities and with the general population using information technology and the World Wide Web Applications cover 8 types of cancer including brain eye mouth head and neck breast lungs colon and prostate Include contributions from authors in 5 different disciplines

Provides a valuable educational tool for medical informatics Handbook of Immunohistochemistry and in situ Hybridization of Human Carcinomas M. A. Hayat, 2005-09-21 Immunohistochemistry is the use of specific antibodies to stain particular molecular species in situ This technique has allowed the identification of many more cell types than could be visualized by classical histology particularly in the immune system and among the scattered hormone secreting cells of the endocrine system and has the potential to improve diagnosis prognosis and therapeutic options of cancer This book discusses all aspects of immunohistochemistry and in situ hybridization technologies and the important role they play in reaching a cancer diagnosis It provides step by step instructions on the methods of additional molecular technologies such as DNA microarrays and microdissection along with the benefits and limitations of each method The topics of region specific gene expression its role in cancer development and the techniques that assist in the understanding of the molecular basis of disease are relevant and necessary in science today The only book available that translates molecular genetics into cancer diagnosis The results of each Immunohistochemical and in situ hybridization method are presented in the form of color illustrations Methods discussed were either developed or refined by expert contributors in their own laboratories *Clinical Technologies: Concepts, Methodologies, Tools and Applications* Management Association, Information Resources, 2011-05-31 This multi volume book delves into the many applications of information technology ranging from digitizing patient records to high performance computing to medical imaging and diagnostic technologies and much more *Nature-Inspired Informatics for Intelligent Applications and Knowledge Discovery: Implications in Business, Science, and Engineering* Chiong, Raymond, 2009-07-31 Recently nature has stimulated many successful techniques algorithms and computational applications allowing conventionally difficult problems to be solved through novel computing systems Nature Inspired Informatics for Intelligent Applications and Knowledge Discovery Implications in Business Science and Engineering provides the latest findings in nature inspired algorithms and their applications for breakthroughs in a wide range of disciplinary fields This defining reference collection contains chapters written by leading researchers and well known academicians within the field offering readers a valuable and enriched accumulation of knowledge *Perspectives of Knowledge Management in Urban Health* Michael Christopher Gibbons, Rajeev Bali, Nilmini Wickramasinghe, 2010-08-19 It is a tragic paradox of American health care a system renowned for world class doctors the latest medical technologies and miraculous treatments has shocking inadequacies when it comes to the health of the urban poor Urban Health Knowledge Management outlines bold workable strategies for addressing this disparity and eliminating the knowledge islands that so often disrupt effective service delivery The book offers a wide reaching global framework for organizational competence leading to improved care quality and outcomes for traditionally underserved clients in diverse challenging settings Its contributors understand the issues fluently imparting both macro and micro concepts of KM with clear rationales and real world examples as they Analyze key aspects of KM and explains their applicability to urban health Introduce the KM tools and technologies most relevant to

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Information Systems Architecture and Technology: Proceedings of 40th Anniversary International Conference on Information Systems Architecture and Technology - ISAT 2019 Zofia Wilimowska, Leszek Borzemski, Jerzy Świątek, 2019-09-04 This three volume book highlights significant advances in the development of new information systems technologies and architectures Further it helps readers solve specific research and analytical problems and glean useful knowledge and business value from data Each chapter provides an analysis of a specific technical problem followed by a numerical analysis simulation and implementation of the solution to the real world problem Managing an organization especially in today s rapidly changing environment is a highly complex process Increased competition in the marketplace especially as a result of the massive and successful entry of foreign businesses into domestic markets changes in consumer behaviour and broader access to new technologies and information calls for organisational restructuring and the introduction and modification of management methods using the latest scientific advances This situation has prompted various decision making bodies to introduce computer modelling of organization management systems This book presents the peer reviewed proceedings of the 40th Anniversary International Conference Information Systems Architecture and Technology ISAT held on September 15 17 2019 in Wrocław Poland The conference was organised by the Computer Science Department Faculty of Computer Science and Management Wrocław University of Sciences and Technology and University of Applied Sciences in Nysa Poland The papers have been grouped into three major sections Part I discusses topics including but not limited to artificial intelligence methods knowledge discovery and data mining big data knowledge based management Internet of Things cloud computing and high performance computing distributed computer systems content delivery networks and service oriented computing Part II addresses various topics such as system modelling for control recognition and decision support mathematical modelling in computer system design service oriented systems and cloud computing and complex process modelling Part III focuses on a number of themes like knowledge based management modelling of financial and investment decisions modelling of managerial decisions production systems management and maintenance risk management small business management and theories and models of innovation

Calcium Signalling in Cancer G. V. Sherbet, 2000-11-29 Calcium signalling occupies a preeminent position in the signal transduction system of the cell by virtue of its participation in a wide range of physiological functions together with the biological events associated with genetic expression cell proliferation and apoptosis as well as cell differentiation and

morphogenesis It is an important feat Vitamins and Hormones ,2005-09-07 First published in 1943 VITAMINS AND HORMONES is the longest running serial published by Academic Press In the early days of the Serial the subjects of vitamins and hormones were quite distinct The Editorial Board now reflects expertise in the field of hormone action vitamin action X ray crystal structure physiology and enzyme mechanisms Under the capable and qualified editorial leadership of Dr Gerald Litwack VITAMINS AND HORMONES continues to publish cutting edge reviews of interest to endocrinologists biochemists nutritionists pharmacologists cell biologists and molecular biologists Others interested in the structure and function of biologically active molecules like hormones and vitamins will as always turn to this series for comprehensive reviews by leading contributors to this and related disciplines Includes color illustrations Available on ScienceDirect Longest running series published by Academic Press Contributions by leading international authorities

Artificial Neural Networks In Cancer Diagnosis Prognosis And Patient Management Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Artificial Neural Networks In Cancer Diagnosis Prognosis And Patient Management**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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