

³
Name of Journal: *World Journal of Gastroenterology*
Manuscript NO: 50960
Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

Application of preoperative artificial neural network based on blood biomarkers and clinicopathological parameters for predicting long-term survival of patients with gastric cancer

Abstract

BACKGROUND

Because of the powerful abilities of self-learning and handling complex biological information, artificial neural network (ANN) models have been widely applied to disease diagnosis, imaging analysis and prognosis. However, there has been no trained preoperative ANN (preope-ANN) model to

Match Overview

1	Crossref 16 words Qi-Yue Chen, Chao-Hui Zheng, Ping Li, Jian-Wei Xie et al. "A long-term conditional survival analysis for gastric cancer ba...."	<1%
2	Internet 15 words crawled on 04-Oct-2019 www.jcancer.org	<1%
3	Internet 15 words crawled on 29-Aug-2019 f6publishing.blob.core.windows.net	<1%



国内版

国际版

Application of preoperative artificial neural network based on



Chat with Bing

Sign in



All

Images

Videos

关闭取词

16,700 Results

Any time ▾

A scoring system based on artificial neural network for ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5008413>

Apr 19, 2016 · Nearly 20% **patients** with stage II A colon **cancer** will develop recurrent disease post-operatively. The present study aims to develop a scoring system **based on Artificial Neural Network** (ANN) model **for predicting** 10-year **survival** outcome. The clinical and molecular data of 117 stage II A colon **cancer** ...

Cited by: 7

Author: Jian Hong Peng, Yu Jing Fang, Cai Xia Li...

Publish Year: 2016

Artificial neural networks – A method for prediction of ...

<https://www.sciencedirect.com/science/article/pii/S0748798313002692>

An **artificial neural network** (ANN) is a mathematical and **computational method**, which resembles the structure and function of biological neural networks. **ANNs** consist of processing units (**nodes**), which are highly interconnected via a set of weights, as in a **network** of **neurons**, and can process data in a manner analogous to the **brain**.

Cited by: 17

Author: Lidewij Spelt, Jessica Nilsson, Roland An...

Publish Year: 2013

Artificial neural networks in mammography: application to ...

<https://pubs.rsna.org/doi/10.1148/radiology.187.1.8451441>

Artificial neural networks in **mammography: application** to decision making in the diagnosis of breast **cancer**. ... detecting **gastric cancer** using case-based reasoning and single nucleotide polymorphisms. Expert Systems, Vol. 25, No. 2 ... **Artificial Neural Network** Model of **Survival** in **Patients** Treated With Irradiation With and Without Concurrent ...

Cited by: 537

Author: Yuzheng Wu, M. L. Giger, Kunio Doi, C. J...

Publish Year: 1993

Artificial neural networks improve the accuracy of cancer ...

[https://onlinelibrary.wiley.com/doi/10.1002/\(SICI\)1097-0142\(19970215\)79:4<857::AID...](https://onlinelibrary.wiley.com/doi/10.1002/(SICI)1097-0142(19970215)79:4<857::AID...)

The TNM staging system used in this analysis was the **pathologic system** based on the American Joint



7,330 Results

Any time ▾

A scoring system based on artificial neural network for ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5008413>

Apr 19, 2016 · Nearly 20% **patients** with stage II A colon **cancer** will develop recurrent disease post-operatively. The present study aims to develop a scoring system **based on Artificial Neural Network** (ANN) model **for predicting** 10-year **survival** outcome. The clinical and molecular data of 117 stage II A colon **cancer** ...

Cited by: 7

Author: Jian Hong Peng, Yu Jing Fang, Cai Xia Li, Q...

Publish Year: 2016

Artificial neural networks in mammography: application to ...

<https://pubs.rsna.org/doi/abs/10.1148/radiology.187.1.8451441>

Artificial neural networks in **mammography: application** to decision making in the diagnosis of breast **cancer**. ... detecting **gastric cancer** using case-**based** reasoning and single nucleotide polymorphisms. Expert Systems, Vol. 25, No. 2 ... **Artificial Neural Network** Model of **Survival** in **Patients** Treated With Irradiation With and Without Concurrent ...

Cited by: 537

Author: Yuzheng Wu, M. L. Giger, Kunio Doi, C. J. V...

Publish Year: 1993

Artificial neural networks – A method for prediction of ...

<https://www.sciencedirect.com/science/article/pii/S0748798313002692>

By training the **neural network**, both linear and non-linear relationships between input and output variables can be discovered.9, 10 ANN has already been applied successfully in the clinical setting, for example in diagnosing colorectal **cancer**, 11 in the prediction of outcome after acute pancreatitis 12 and for mortality risk scoring in cardiac ...

Cited by: 17

Author: Lidewij Spelt, Jessica Nilsson, Roland And...

Publish Year: 2013

Artificial Neural Network: Predicted vs. Observed Survival ...

https://www.researchgate.net/publication/6620501_Artificial_Neural_Network_Predicted...

Request PDF on ResearchGate | **Artificial Neural Network: Predicted vs. Observed Survival** in **Patients** with Colonic **Cancer** | An Internet-web-based **artificial neural network** has been developed for ...

introduction to artificial neural networks in ...

<https://academic.oup.com/bib/article/10/3/315/211497> ▾

Mar 23, 2009 · In **predicting long term survival** of 40 **patients** with large B-cell lymphoma, O'Neill and Song used the data generated by Alizadeh et al. containing 12 078 transcripts representing expression levels for 4006 genes. This was the first time ANNs were shown to have the ability to perfectly classify