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Application of artificial neural network in the detection and diagnosis of gastrointestinal and liver tumors

ANN in gastrointestinal and liver tumors

Wei-Bo Mao, Jia-Yu Lyu, Deep K Vaishnani, Yu-Man Lyu, Wei Gong, Xi-Ling Xue, Yang-Ping Shentu, Jun Ma

Abstract:

As a form of artificial intelligence and artificial neural network (ANN) have the advantages of adaptability, parallel processing capabilities, and non-linear processing. They occur widely in the early detection and diagnosis of tumors. The working principle and characteristics of the ANN introduced and the research progress of the application of ANNs in the detection and diagnosis

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Application of Artificial Neural Network in Predicting the Survival Rate of Gastric Cancer Patients A Biglarian , 1 E Hajizadeh , 2, * A Kazemnejad , 2 and **MR Zali 3 1 Dept**. of **Biostatistics**, **University of Social Welfare and Rehabilitation Sciences** (**USWRS**), Tehran, Iran

Cited by: 15 **Author:** A Biglarian, E Hajizadeh, A Kazemnejad, M ...
Publish Year: 2011

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Artificial Neural Network Application in the **Diagnosis** of Disease Conditions with **Liver** Ultrasound Images Karthik Kalyan , 1 Binal Jakhia , 1 Ramachandra Dattatraya Lele ...

Cited by: 63 **Author:** Karthik Kalyan, Binal Jakhia, Ramachandra ...
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Since 2010, substantial progress has been made in **artificial** intelligence (AI) and its **application** to medicine. AI is explored in gastroenterology for endoscopic analysis of lesions, in **detection** of cancer, and to facilitate the analysis of inflammatory lesions or **gastrointestinal** ...

Cited by: 1 **Author:** Catherine Le Berre, William J. Sandborn, Sa...
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The present study shows that **neural network model** is a more powerful statistical tool in predicting the survival rate of the **gastric cancer patients** compared to Cox proportional **hazard regression model**.

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We constructed a convolutional **neural network** computer-aided **detection** (CNN-CAD) system based on endoscopic images to determine invasion depth and screen patients for endoscopic resection. METHODS: Endoscopic images of gastric cancer **tumors** were obtained from the Endoscopy Center of Zhongshan Hospital.

Cited by: 19 **Author:** Yan Zhu, Qiu-Cheng Wang, Mei-Dong Xu, Z...
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Cited by: 543 **Author:** Yuzheng Wu, M. L. Giger, Kunio Doi, C. J...

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