

Current Contents Connect<sup>®</sup>[<< Return to Browse](#)

Record 1 of 1

Record from **Current Contents Connect<sup>®</sup>**

Save to:

ENDNOTE<sup>®</sup> WEBENDNOTE<sup>®</sup>

RefWorks

I Wrote These Publications  more options

Times Cited: 0

[Create Citation Alert](#)

This article has been cited 0 times in Web of Knowledge.

Cited References: 0

## Additional information

- [View the journal's Table of Contents \(in Current Contents Connect<sup>®</sup>\)](#)

## Suggest a correction

If you would like to improve the quality of the data in this record, please [suggest a correction](#).

## Fuzzy Rule-Based System Applied to Risk Estimation of Cardiovascular Patients

**Author(s):** [Bohacik, J](#) (Bohacik, Jan)<sup>[1,2]</sup>; [Davis, DN](#) (Davis, Darryl N.)<sup>[1]</sup>

**Source:** JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING **Volume:** 20 **Issue:** 5-6 **Pages:** 445-466 **Published:** 2013

**Abstract:** Cardiovascular decision support is one area of increasing research interest. On-going collaborations between clinicians and computer scientists are looking at the application of knowledge discovery in databases to the area of patient diagnosis, based on clinical records. A fuzzy rule-based system for risk estimation of cardiovascular patients is proposed. It uses a group of fuzzy rules as a knowledge representation about data pertaining to cardiovascular patients. Several algorithms for the discovery of an easily readable and understandable group of fuzzy rules are formalized and analysed. The accuracy of risk estimation and the interpretability of fuzzy rules are discussed. Our study shows, in comparison to other algorithms used in knowledge discovery, that classification with a group of fuzzy rules is a useful technique for risk estimation of cardiovascular patients.

**Accession Number:** CCC:000318195700002

**Document Type:** Article

**Language:** English

**Author Keywords:** Classification; fuzzy rules; linguistic variable elimination; cumulative information estimations; classification ambiguity; medical data mining; cardiology

**KeyWords Plus:** DECISION-SUPPORT; DISEASE; DATABASES

**Reprint Address:** Bohacik, Jan (reprint author), Univ Hull, Dept Comp Sci, Kingston Upon Hull HU6 7RX, N Humberside, England

**Addresses:**

[ 1 ] Univ Hull, Dept Comp Sci, Kingston Upon Hull HU6 7RX, N Humberside, England

[ 2 ] Univ Zilina, Dept Informat, Zilina 01026, Slovakia

**E-mail Addresses:** [J.Bohacik@hull.ac.uk](mailto:J.Bohacik@hull.ac.uk)

**Publisher:** OLD CITY PUBLISHING INC, 628 NORTH 2ND ST, PHILADELPHIA, PA 19123 USA, <http://www.oldcitypublishing.com>

**Discipline:** COMPUTER SCIENCE & ENGINEERING

**Research Areas:** Computer Science

**CC Editions/Collections:** Engineering, Computing & Technology (ECT)

**ISI Document Delivery No:** 134FL

**ISSN:** 1542-3980

◀ | Record 1 of 1 | ▶

Record from **Current Contents Connect®**

**Output Record**

**Step 1:** Select content.

- Authors, Title, Source
- Abstract
- Full Record

**Step 2:** Select destination.

[\[Learn about saving to bibliographic software\]](#)

  **ENDNOTE® WEB** Save to: **ENDNOTE®** **RefWorks**

**I Wrote These Publications** 

Save to other Reference Software **Save**

  (0)

**View in:** | [简体中文](#) | [繁體中文](#) | [English](#) | [日本語](#) | [한국어](#)

© 2013 Thomson Reuters | [Terms of Use](#) | [Privacy Policy](#) |

Please give us your [feedback](#) on using Web of Knowledge.