

Prof.univ. dr. Ioan Dzitac, Universitatea „Aurel Vlaicu” din Arad

Lucrări în ISI Web of Science (13.06.2009): 9

Citări în reviste ISI: 14

The screenshot displays the ISI Web of Knowledge interface in a Windows Internet Explorer browser. The page title is "ISI Web of Knowledge [v.4.5] - All Databases Full Record". The URL is http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=6&SID=U2@Bfcolm5K21M3LdnL&page=1&doc=1&colname=WOS. The page features a green header with the ISI Web of Knowledge logo and the tagline "Take the next step". Below the header, there are navigation tabs for "All Databases", "Select a Database", "Web of Science", and "Additional Resources". The main content area shows a record for "Artificial Intelligence plus Distributed Systems = Agents" (Record 1 of 9). The record details include: Author(s): Dzitac I (Dzitac, Ioan)¹, Barbat BE (Barbat, Boldur E.)²; Source: INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL, Volume: 4, Issue: 1, Pages: 17-26, Published: MAR 2009; Times Cited: 0, References: 24, Citation Map beta; Abstract: The connection with Wirth's book goes beyond the title, albeit confining the area to modern Artificial Intelligence (AI). Whereas thirty years ago, to devise effective programs, it became necessary to enhance the classical algorithmic framework with approaches applied to limited and focused subdomains, in the context of broad-band technology and semantic web, applications - running in open, heterogeneous, dynamic and uncertain environments-current paradigms are not enough, because of the shift from programs to processes. Beside the structure as position paper, to give more weight to some basic assertions, results of recent research are abridged and commented upon in line with new paradigms. Among the conclusions: a) Non-deterministic software is unavoidable, its development entails not just new design principles but new computing paradigms. b) Agent-oriented systems, to be effectual, should merge conventional agent design with approaches employed in advanced distributed systems (where parallelism is intrinsic to the problem, not just a mean to speed up).; Document Type: Article; Language: English; Author Keywords: open, heterogeneous, dynamic and uncertain environments (OHDUE); computer-aided decision-making; nonalgorithmic software; bounded rationality; agent-oriented software engineering (AOSE); Reprint Address: Dzitac, I (reprint author), Aurel Vlaicu Univ Arad, Fac Exact Sci, Dept Math Informat, Str Elena Dragoi 2, Complex Univ M Micalaca, Zona, Arad, Romania; Addresses: 1. Aurel Vlaicu Univ Arad, Fac Exact Sci, Dept Math Informat, Arad, Romania; 2. Lucian Blaga Univ Sibiu, Hermann Oberth Fac Engn, Dept Res, Sibiu 550024, Romania; E-mail Addresses: ldzitac@gmail.com, bbarbat@gmail.com; Publisher: CCC PUBL-AGORA UNIV, PIATA TINERETULUI 8, ORADEA, JUD, BIHOR, 410526, ROMANIA; IDS Number: 399TH. On the right side, there are sections for "Cited by: 0", "Related Records", "References: 24", and "Additional information". The browser's taskbar at the bottom shows the system tray with the time 09:29 and the date 13.06.2009.

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Advanced AI Techniques for Web Mining

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Author(s): Dzitac I (Dzitac, Ioan)¹, Moisil I (Moisil, Ioana)

Editor(s): Mastorakis NE; Poulos M; Mladenov V; Bojkovic Z; Simian D; Kartalopoulos S

Source: MATHEMATICAL METHODS, COMPUTATIONAL TECHNIQUES, NON-LINEAR SYSTEMS, INTELLIGENT SYSTEMS **Book Series:** Mathematics and Computers in Science and Engineering **Pages:** 343-346 **Published:** 2008

Times Cited: 0 **References:** 25 [Citation Map](#) *beta*

Conference Information: 10th WSEAS Int Conf on Math Methods, Computat Tech and Intelligent Syst/7th WSEAS Int Conference on Non-Linear Anal, Non-Linear Syst and Chaos/8th WSEAS Int Conf Wavelet Anal and Multirate Syst Corfu, GREECE, OCT 26-28, 2008 WSEAS

Abstract: The World Wide Web has evolved in less than two decades as the major source of data and information for all domains. Web has become today not only an accessible and searchable information source but also one of the most important communication channels, almost a virtual society. Web mining is a challenging activity that aims to discover new, relevant and reliable information and knowledge by investigating the web structure, its content and its usage. Though the web mining process is similar to data mining, the techniques, algorithms and methodologies used to mine the web encompass those specific to data mining, mainly because the web has a great amount of unstructured data and the changes are frequent and rapid. This paper is structured into two sections. The first one briefly discusses the different web mining tasks and the second one is focusing on advanced artificial intelligence (AI) methods for information retrieval and web search, link analysis, opinion mining and web usage mining.

Document Type: Proceedings Paper

Language: English

Author Keywords: Web Mining; Multi-Agent System; Swarm Intelligence; Ant Colony Optimizer; Classification Rule Mining

KeyWords Plus: COLONY OPTIMIZATION ALGORITHM; ANT; NETWORKS

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1. Agora Univ, IT Dept, Oradea 410526, Romania

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Surface roughness image analysis using quasi-fractal characteristics and fuzzy clustering methods

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Author(s): Vesselenyi T (Vesselenyi, Tiberiu)¹, Dzitac I (Dzitac, Ioan)², Dzitac S (Dzitac, Simona)¹, Vaida V (Vaida, Victor)¹

Source: INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL Volume: 3 Issue: 3 Pages: 304-316 Published: 2008

Times Cited: 0 References: 14 Citation Map beta

Abstract: In this paper the authors describe the results of experiments for surface roughness image acquisition and processing in order to develop an automated roughness control system. This implies the finding of a characteristic roughness parameter (for example Ra) on the bases of information contained in the image of the surface. To achieve this goal we use quasi-fractal characteristics and fuzzy clustering methods.

Document Type: Article

Language: English

Author Keywords: image processing; surface roughness; quasi-fractal parameters; fuzzy clustering

Reprint Address: Vesselenyi, T (reprint author), Univ Oradea, Univ Str 1, Oradea 410087, Romania

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Publisher: CCC PUBL-AGORA UNIV, PIATA TINERETULUI 8, ORADEA, JUD, BIHOR, 410526, ROMANIA

IDS Number: 321AB

ISSN: 1841-9836

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ICCCC 2008 & EWNLC 2008 celebrates Bardeen's Centenary and welcomes Professor Zadeh

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Author(s): Dzitac I (Dzitac, Ioan)

Source: INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL Volume: 3 Pages: 16-25 Supplement: Suppl. 5 Published: 2008

Times Cited: 1 References: 0 Edition Map beta

Abstract: This edition of International Conference on Computers, Communications and Control, ICCCC 2008 [1] together with the satellite-event Exploratory Workshop on Natural Language Computation, EWNLC 2008 [2] 'From Natural Language to Soft Computing: New Paradigms in Artificial Intelligence', celebrates the Centenary of John Bardeen (1908-1991) [3-4], the co-inventor of the transistor, a very important element in the development of the computers and the communications.

ICCCC 2008 and EWNLC 2008 are honored to have a special guest as keynote speaker in the person of a famous scientist, Dr. Lotfi A. Zadeh [25-32], professor at Berkeley University of California. His Fuzzy Set Theory (1965), Fuzzy Logic Theory (1975) and the next contributions on Soft Computing (1990), Human-Machine Perception (2000) and Natural Language Computation are of a capital importance in the actual mathematics, computer science and technological applications (from the home intelligent e-devices to guiding-computers for missiles).

Other thirteen international scientists are present at this event as plenary ICCCC 2008 keynote speakers and as invited EWNLC 2008 speakers: Vasile Baltac (National School of Political Studies and Public Administration, Bucharest, Romania), Sădău Barbat (Lucian Blaga University, Sibiu, Romania), Pierre Borne (Ecole Centrale de Lille, France), Ioan Buciu (University of Oradea, Romania), Florin Gheorghe Filip (Romanian Academy, Bucharest, Romania), Janos Fodor (Budapest Tech, Hungary), Gaston Lefranc (Pontifical Catholic University of Valparaiso, Chile), Stephan Olariu (Old Dominion University, United States of America), Gheorghe Paun (Institute of Mathematics of Romanian Academy, Bucharest, Romania and University of Seville, Spain), Dragan Radojevic (Mihailo Pupin Institute, Beograd, Serbia), Athanasios D. Styliadis (ATEI, Thessaloniki, Greece), Horia-Nicolai Teodorescu (Gheorghe Asachi Technical University of Iasi, Romania), Dan Tufis (Research Institute for Artificial Intelligence of the Romanian Academy, Romania).

Other seven scientists will present invited lectures on the parallel sessions of these events: Marius Balas (Aurel Vlaicu University, Arad, Romania), Valentina Balas (Aurel Vlaicu University, Arad, Romania), Marius Guran (Politehnica University of Bucharest, Romania), Stefan Iancu (Romanian Academy, Bucharest, Romania), Ioana Moisil (Lucian Blaga University, Sibiu, Romania), Grigori Moldovan (Babeş-Bolyai University, Cluj-Napoca, Romania), Gheorghe Stefanescu (University of Illinois at Urbana-Champaign, United States of America). During this event more than 100 papers will be presented by scientists from 21 countries: Algeria, Australia, Bulgaria, Chile, Egypt, France, Germany, Greece, Hungary, Japan, India, Ireland, Iran, Macedonia, Netherlands, Spain, Serbia, Romania, Tunisia, Turkey and United States. The papers presented at these two scientific events will be published in:

L. A. Zadeh, D. Tufis, F. G. Filip, I. Dzitac (eds), From Natural Language to Soft Computing: New Paradigms in Artificial Intelligence, Editing House of Romanian Academy, 2008;

I. Dzitac, F. G. Filip, M.-J. Manolescu (eds), Proceedings of ICCCC 2008, in ICCCC, Vol. III (2008), suppl. issue, 2008.

Document Type: Editorial Material

Language: English

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IDS Number: 324DJ

ISSN: 1841-9838

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Dzitac I, Barbat BE, Artificial Intelligence plus Distributed Systems = Agents INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL 4 1 17-26 MAR 2009

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An application of neuro-fuzzy modelling to prediction of some incidence in an electrical energy distribution center

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Author(s): Dzitac S (Dzitac, Simona)¹, Felea I (Felea, Ioan)¹, Dzitac I (Dzitac, Ioan)², Vesselenyi T (Vesselenyi, Tiberiu)¹

Source: INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 3 **Pages:** 287-292 **Supplement:** Suppl. S **Published:** 2008

Times Cited: 0 **References:** 8 [Citation Map](#) *beta*

Abstract: In this paper we will present the utilization of neuro - fuzzy models as prediction of some events, more exactly, realizing of some applications viewing the time intervals prediction in which incidents can appear in an electrical energy distribution system. It was realized the duration analyzes between two incidents, with the aim to estimate the frequency of the incidences in the future. The time intervals prediction where may appear incidences was realized for electric energy distribution center Oradea, the used language being MATLAB.

Document Type: Article

Language: English

Author Keywords: neuro-fuzzy modelling; prediction; membership function

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Publisher: CCC PUBL-AGORA UNIV, PIATA TINERETULUI 8, ORADEA, JUD, BIHOR, 410526, ROMANIA

IDS Number: 324DJ

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CRM kernel-based integrated information system for a SME: An object-oriented design

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Author(s): Lupse V (Lupse, Vasile)¹, Dzitac I (Dzitac, Ioan), Dzitac S (Dzitac, Simona)², Manolescu A (Manolescu, Adriana), Manolescu MJ (Manolescu, Misu-Jan)

Source: INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL. Volume: 3 Pages: 375-380 Supplement: Suppl. S Published: 2008

Times Cited: 0 **References:** 6 [Citation Map](#) beta

Abstract: We propose an object-oriented design of an information integrated system for a SME. Our design is based on a kernel which implements CRM functions. This kernel is conceived as an independent subsystem and it is the first to be implemented. The others added subsystems are designed in a way that they will gravitate around the kernel. This type of integrated information system is developed in the iterative and incremental steps. CRM kernel implements basic functionality of the system, which stresses the financial partner relationships management.

Document Type: Article

Language: English

Author Keywords: customer relationship management (CRM); small and/or medium enterprise (SME); object-oriented design (OOD)

Reprint Address: Lupse, V (reprint author), N Univ, Dept Math & Informat, Baia Mare, Romania

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Publisher: CCC PUBL-AGORA UNIV, PIATA TINERETULUI 8, ORADEA, JUD. BIHOR, 410526, ROMANIA

IDS Number: 324DJ

ISSN: 1841-9836

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Fuzzy and neural controllers for a pneumatic actuator

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Author(s): Vesselenyi T (Vesselenyi, Tiberiu)¹, Dzitac S (Dzitac, Simona)¹, Dzitac I (Dzitac, Ioan)², Manolescu MJ (Manolescu, Misu-Jan)

Source: INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL Volume: 2 Issue: 4 Pages: 375-387 Published: 2007

Times Cited: 2 **References:** 13 [Citation Map](#) *beta*

Abstract: There is a great diversity of ways to use fuzzy inference in robot control systems, either in the place where it is applied in the control scheme or in the form or type of inference algorithms used. On the other hand, artificial neural networks ability to simulate nonlinear systems is used in different researches in order to develop automated control systems of industrial processes. In these applications of neural networks, there are two important steps: system identification (development of neural process model) and development of control (definition of neural, control structure). In this paper we present some modelling applications, which uses fuzzy and neural controllers, developed on a pneumatic actuator containing a force and a position sensor, which can be used for robotic grinding operations. Following the simulation one of the algorithms was tested on an experimental setup. The paper also presents the development of a NARMA-L2 neural controller for a pneumatic actuator using position feedback. The structure had been trained and validated, obtaining good results.

Document Type: Article

Language: English

Author Keywords: fuzzy control; neural control; force-position feedback; pneumatic actuator

KeyWords Plus: DESIGN

Reprint Address: Vesselenyi, T (reprint author), Univ Oradea, Univ St 1, Oradea 410087, Romania

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Publisher: CCC PUBL-AGORA UNIV, PIATA TINERETULUI 8, ORADEA, JUD, BIHOR, 410526, ROMANIA

IDS Number: 293KB

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This article has been cited 2 times (from Web of Science).
Alavandar S, Nigam MJ Inverse kinematics solution of 3DOF planar robot using ANFIS. INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL 3 150-155 Suppl. S 2008
Alavandar S, Nigam MJ Neuro-fuzzy based approach for inverse kinematics solution of industrial robot manipulators. INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL 3 3 224-234 2008
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60 years from birth of academician F.G. Filip

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Author(s): Dzitac I (Dzitac, Ioan)¹, Manolescu MJ (Manolescu, Misu-Jan)¹, Oros H (Oros, Horea)², Valeanu E (Valeanu, Emma)¹

Source: INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL Volume: 2 Issue: 3 Pages: 209-216 Published: 2007

Times Cited: 0 **References:** 1 [Citation Map](#) *beta*

Document Type: Biographical-Item

Language: English

Reprint Address: Dzitac, I (reprint author), IUCCC Agora Univ, Piata Tineretului 8, Oradea 410526, Romania

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ISSN: 1841-9836

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On a fuzzy linguistic approach to solving multiple criteria fractional programming problem

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Author(s): Pop B (Pop, Bogdana)¹, Dzitac I (Dzitac, Ioan)²

Source: INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL Volume: 1 Pages: 381-385 Supplement: Suppl. S Published: 2006

Times Cited: 0 **References:** 9 [Citation Map](#) *beta*

Abstract: Mathematical model of multiple objective linear fractional programming problem is analyzed with respect to linguistic variables based solving methods. Two propositions are formulated related to choosing possibilities of aggregation coefficients for fractional criteria' membership functions. Computational results are developed in order to highlight theoretical remarks related to membership functions' for efficiency needed properties.

Document Type: Article

Language: English

Author Keywords: fuzzy optimization; linguistic variable; multi-objective programming; linear fractional programming

Reprint Address: Pop, B (reprint author), Transilvania Univ Brasov, Dept Comp Sci, Iuliu Maniu 50, Brasov 500091, Romania

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ISSN: 1841-9836

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