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Record 1 of 28**Title:** The Fuzzification of Classical Structures: A General View**Author(s):** Dzitac, I (Dzitac, I.)**Source:** INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 10 **Issue:** 6 **Special Issue:** SI **Pages:** 772-788 **Published:** DEC 2015**Times Cited in Web of Science Core Collection:** 0**Total Times Cited:** 0**Usage Count (Last 180 days):** 2**Usage Count (Since 2013):** 2**Cited Reference Count:** 68**Abstract:** The aim of this survey article, dedicated to the 50th anniversary of Zadeh's pioneering paper "Fuzzy Sets" (1965), is to offer a unitary view to some important spaces in fuzzy mathematics: fuzzy real line, fuzzy topological spaces, fuzzy metric spaces, fuzzy topological vector spaces, fuzzy normed linear spaces. We believe that this paper will be a support for future research in this field.**Accession Number:** WOS:000364346600002**Language:** English**Document Type:** Article**Author Keywords:** Fuzzy real line; fuzzy topological spaces; fuzzy metric spaces; fuzzy topological vector spaces; fuzzy normed linear spaces; fuzzy F-space**KeyWords Plus:** TOPOLOGICAL VECTOR-SPACES; NORMED LINEAR-SPACES; FUZZY METRIC-SPACES; MULTIVALUED MAPPINGS; BOUNDED OPERATORS; TYCHONOFF THEOREM; SETS**Addresses:** [Dzitac, I.] Aurel Vlaicu Univ Arad, RO-310330 Arad, Romania.

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Publisher: CCC PUBL-AGORA UNIV**Publisher Address:** PIATA TINERETULUI 8, ORADEA, JUD, BIHOR, 410526, ROMANIA**Web of Science Categories:** Automation & Control Systems; Computer Science, Information Systems**Research Areas:** Automation & Control Systems; Computer Science**IDS Number:** CV5YE**ISSN:** 1841-9836**eISSN:** 1841-9844**29-char Source Abbrev.:** INT J COMPUT COMMUN**ISO Source Abbrev.:** Int. J. Comput. Commun. Control**Source Item Page Count:** 17**Record 2 of 28****Title:** Impact of Membrane Computing and P Systems in ISI WoS. Celebrating the 65th Birthday of Gheorghe Paun**Author(s):** Dzitac, I (Dzitac, I.)**Source:** INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 10 **Issue:** 5 **Pages:** 617-626 **Published:** OCT 2015**Times Cited in Web of Science Core Collection:** 0**Total Times Cited:** 0**Usage Count (Last 180 days):** 7**Usage Count (Since 2013):** 7**Cited Reference Count:** 6**Abstract:** Membrane Computing is a branch of Computer Science initiated by Gheorghe Paun in 1998, in a technical report of Turku Centre for Computer Science published as a journal paper ("Computing with Membranes" in Journal of Computer and System Sciences) in 2000. Membrane systems, as Gheorghe Faun called the models he has introduced, are known nowadays as "P Systems" (with the letter P coming from the initial of the name of this research area "father").

This note is an overview of the impact in ISI WoS of Gheorghe Paun's works, focused on Membrane Computing and P Systems field, on the occasion of his 65th birthday anniversary.

Accession Number: WOS:000358340900001**Language:** English**Document Type:** Article**Author Keywords:** Membrane Computing; P Systems; ISI Web of Science(WoS); scientific impact; h-index**Addresses:** [Dzitac, I.] Aurel Vlaicu Univ Arad, Arad 310330, Romania.

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Publisher: CCC PUBL-AGORA UNIV**Publisher Address:** PIATA TINERETULUI 8, ORADEA, JUD, BIHOR, 410526, ROMANIA**Web of Science Categories:** Automation & Control Systems; Computer Science, Information Systems**Research Areas:** Automation & Control Systems; Computer Science**IDS Number:** CN3QH**ISSN:** 1841-9836**eISSN:** 1841-9844**29-char Source Abbrev.:** INT J COMPUT COMMUN**ISO Source Abbrev.:** Int. J. Comput. Commun. Control**Source Item Page Count:** 10

Record 3 of 28**Title:** ON THE RATIO OF FUZZY NUMBERS - EXACT MEMBERSHIP FUNCTION COMPUTATION AND APPLICATIONS TO DECISION MAKING**Author(s):** Stanojevic, B (Stanojevic, Bogdana); Dzitac, I (Dzitac, Ioan); Dzitac, S (Dzitac, Simona)**Source:** TECHNOLOGICAL AND ECONOMIC DEVELOPMENT OF ECONOMY **Volume:** 21 **Issue:** 5 **Special Issue:** SI **Pages:** 815-832 **DOI:** 10.3846/20294913.2015.1093563 **Published:** SEP 3 2015**Times Cited in Web of Science Core Collection:** 0**Total Times Cited:** 0**Usage Count (Last 180 days):** 5**Usage Count (Since 2013):** 5**Cited Reference Count:** 38

Abstract: In the present paper, we propose a new approach to solving the full fuzzy linear fractional programming problem. By this approach, we provide a tool for making good decisions in certain problems in which the goals may be modelled by linear fractional functions under linear constraints; and when only vague data are available. In order to evaluate the membership function of the fractional objective, we use the -cut interval of a special class of fuzzy numbers, namely the fuzzy numbers obtained as sums of products of triangular fuzzy numbers with positive support. We derive the -cut interval of the ratio of such fuzzy numbers, compute the exact membership function of the ratio, and introduce a way to evaluate the error that arises when the result is approximated by a triangular fuzzy number. We analyse the effect of this approximation on solving a full fuzzy linear fractional programming problem. We illustrate our approach by solving a special example - a decision-making problem in production planning.

Accession Number: WOS:000361984500009**Language:** English**Document Type:** Article**Author Keywords:** full fuzzy program; triangular fuzzy number; fuzzy aggregation; linear fractional programming; error approximation; decision making; C61**KeyWords Plus:** AGGREGATION OPERATORS; INTERVAL; EXTENSION**Addresses:** [Stanojevic, Bogdana] Serbian Acad Arts & Sci, Math Inst, Belgrade 11000, Serbia.

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Publisher: VILNIUS GEDIMINAS TECH UNIV**Publisher Address:** SAULETEKIO AL 11, VILNIUS, LT-10223, LITHUANIA**Web of Science Categories:** Economics**Research Areas:** Business & Economics**IDS Number:** CS3OR**ISSN:** 2029-4913**eISSN:** 2029-4921**29-char Source Abbrev.:** TECHNOL ECON DEV ECO**ISO Source Abbrev.:** Technol. Econ. Dev. Econ.**Source Item Page Count:** 18**Funding:**

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This research was partially supported by the Ministry of Education and Science, Republic of Serbia, project number TR36006. The authors want to express their gratitude to the anonymous referees for their valuable suggestions.

Record 4 of 28**Title:** University Level Learning and Teaching via E-Learning Platforms**Author(s):** Benta, D (Benta, D.); Bologa, G (Bologa, G.); Dzitac, S (Dzitac, S.); Dzitac, I (Dzitac, I.)**Edited by:** Gomes LFAM; Colcher R; Wolcott P; HerreraViedma E; Shi Y**Source:** 3RD INTERNATIONAL CONFERENCE ON INFORMATION TECHNOLOGY AND QUANTITATIVE MANAGEMENT, ITQM 2015 **Book Series:** Procedia Computer Science **Volume:** 55 **Pages:** 1366-1373 **DOI:** 10.1016/j.procs.2015.07.123 **Published:** 2015**Times Cited in Web of Science Core Collection:** 0**Total Times Cited:** 0**Usage Count (Last 180 days):** 7**Usage Count (Since 2013):** 7**Cited Reference Count:** 23

Abstract: Web-based adaptive collaborative learning environments are more often used to support face to face teaching activities. This paper describes how the educational process may be improved and students may be motivated to do homework tasks and to attend classes in higher education. We describe the implementation and use of e-learning platforms and present our experience in using such platforms in our faculty. The performance of two groups of students is analyzed. The analysis focuses on two aspects: attendance on classes and homework tasks submission. Therefore, the first group had no contact with e-learning environment and they had to attend classes in a traditional way (face-to-face interaction) and to submit their homework via e-mail. The second group had to attend classes and also to use an e-learning platform where they could access course resources and homework tasks. They had also to submit their homework via the platform, while respecting a strict deadline and using the professors' feedback to improve their homework quality. This paper highlights the importance and the benefits of using collaborative e-learning platforms in higher education to support face to face teaching. (C) 2015 Published by Elsevier B.V. This is an open access article under the CC BY-NC-ND license (<http://creativecommons.org/licenses/by-nc-nd/4.0/>).

Accession Number: WOS:000360101400156**Language:** English**Document Type:** Proceedings Paper**Conference Title:** 3rd International Conference on Information Technology and Quantitative Management (ITQM)**Conference Date:** JUL 21-24, 2015**Conference Location:** Rio De Janeiro, BRAZIL

Conference Sponsors: Int Acad Informat Technol & Quantitat Management, Ibmc, FIRJAN, UFF, SOBRAPO, ASSESPRO, CAPES, FAPERJ, SUCESU RJ, SINDITEC, ANE Natl Acad Engr, Res Ctr Fictitious Econ, Data Sci, Key Lab Big Data Mining & Knowledge Management, Chinese Acad Sci, Sch Management, Univ Chinese Acad Sci, Sch Management, Chinese Acad Sci, Inst Policy & Management, Chinese Soc Management Modernizat, Univ Nebraska

Author Keywords: Course Management System; Moodle; e-learning; higher education; homework

KeyWords Plus: HIGHER-EDUCATION; STUDENTS; ACCEPTANCE; KNOWLEDGE; MOODLE

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Publisher: ELSEVIER SCIENCE BV

Publisher Address: SARA BURGERHARTSTRAAT 25, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS

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Research Areas: Computer Science

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ISSN: 1877-0509

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Source Item Page Count: 8

Record 5 of 28

Title: Decision Support Model for Production Disturbance Estimation

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

Source: INTERNATIONAL JOURNAL OF INFORMATION TECHNOLOGY & DECISION MAKING **Volume:** 13 **Issue:** 3 **Pages:** 623-647 **DOI:**

10.1142/S0219622014500576 **Published:** MAY 2014

Times Cited in Web of Science Core Collection: 1

Total Times Cited: 1

Usage Count (Last 180 days): 3

Usage Count (Since 2013): 17

Cited Reference Count: 24

Abstract: A current modeling framework for disturbance in manufacturing systems (MS) is given by concepts like discrete-event systems, stochastic uid models and infinitesimal disturbance analysis. The goal of modeling is to achieve control and structural and functional optimization of MS. Objective functions of these optimization models are focused on quantities which reflect the level of reliability, the level of manufactured products, the quality of products or the impact on the environment of MS with disturbances. These models do not allow a dynamic evaluation of consequences of the disturbances which appears in the operation of MS machines and also do not allow an evaluation of the evolution in time of disturbance consequence indicators. Disturbances in technological lines of MS represent local bottlenecks of production with severe economic consequences in what regards production time losses. Good estimation of disturbances dynamics can be very helpful to both technological line designers, who can optimize their projects and production managers who can minimize their losses. Our model allows a dynamic evaluation of consequences of some disturbance of machine operation in MS, using indicators based on time, energy and costs. A MATLAB software package was developed for tests.

Accession Number: WOS:000336411100009

Language: English

Document Type: Article

Author Keywords: Technological line; disturbance propagation; mathematical model; dynamics algorithm, control

KeyWords Plus: MANUFACTURING SYSTEMS; PARALLEL; DESIGN

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Publisher: WORLD SCIENTIFIC PUBL CO PTE LTD

Publisher Address: 5 TOH TUCK LINK, SINGAPORE 596224, SINGAPORE

Web of Science Categories: Computer Science, Artificial Intelligence; Computer Science, Information Systems; Computer Science, Interdisciplinary Applications; Operations Research & Management Science

Research Areas: Computer Science; Operations Research & Management Science

IDS Number: AH8TM

ISSN: 0219-6220

eISSN: 1793-6845

29-char Source Abbrev.: INT J INF TECH DECIS

ISO Source Abbrev.: Int. J. Inf. Technol. Decis. Mak.

Source Item Page Count: 25

Record 6 of 28

Title: Input Projection Algorithms Influence in Prediction and Optimization of QoS Accuracy

Author(s): Albu, RD (Albu, R. D.); Dzitac, I (Dzitac, I.); Popentiu-Vladicescu, F (Popentiu-Vladicescu, F.); Naghiu, IM (Naghiu, I. M.)

Source: INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 9 **Issue:** 2 **Pages:** 131-138 **Published:** APR 2014

Times Cited in Web of Science Core Collection: 0

Total Times Cited: 0

Usage Count (Last 180 days): 1

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Cited Reference Count: 16

Abstract: Regardless of new achievements in the research of prediction models, QoS is still a great issue for high quality web services and remains one of the key subjects that need to be studied. We believe that QoS should not only be measured, but have to be predicted in development and implementation phases. In this paper we assess how different input projection algorithms influence the prediction accuracy of a Multi-Layer Perceptron (MLP) trained with large datasets of web services QoS values.

Accession Number: WOS:000332352800001**Language:** English**Document Type:** Article**Author Keywords:** Quality of Service (QoS); adaptive models; web services; large/big data**Addresses:** [Albu, R. D.; Popentiu-Vladicescu, F.; Naghiu, I. M.] Univ Oradea, Oradea 410610, Romania.

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Publisher: CCC PUBL-AGORA UNIV**Publisher Address:** PIATA TINERETULUI 8, ORADEA, JUD, BIHOR, 410526, ROMANIA**Web of Science Categories:** Automation & Control Systems; Computer Science, Information Systems**Research Areas:** Automation & Control Systems; Computer Science**IDS Number:** AC2RX**ISSN:** 1841-9836**eISSN:** 1841-9844**29-char Source Abbrev.:** INT J COMPUT COMMUN**ISO Source Abbrev.:** Int. J. Comput. Commun. Control**Source Item Page Count:** 8**Record 7 of 28****Title:** Special Types of Fuzzy Relations**Author(s):** Nadaban, S (Nadaban, S.); Dzitac, I (Dzitac, I.)**Edited by:** Shi Y; Lepskiy A; Aleskerov F**Source:** 2ND INTERNATIONAL CONFERENCE ON INFORMATION TECHNOLOGY AND QUANTITATIVE MANAGEMENT, ITQM 2014 **Book Series:** Procedia Computer Science **Volume:** 31 **Pages:** 552-557 **DOI:** 10.1016/j.procs.2014.05.301 **Published:** 2014**Times Cited in Web of Science Core Collection:** 2**Total Times Cited:** 2**Usage Count (Last 180 days):** 1**Usage Count (Since 2013):** 1**Cited Reference Count:** 10**Abstract:** The aim of this paper is to present, in an unitary way, some special types of fuzzy relations: affine fuzzy relations, linear fuzzy relations, convex fuzzy relations, M-convex fuzzy relations. All these fuzzy relations are characterized and we established the inclusions between these classes of fuzzy relations. (C) 2014 Published by Elsevier B.V. Open access under CC BY-NC-ND license.**Accession Number:** WOS:000360713800063**Language:** English**Document Type:** Proceedings Paper**Conference Title:** 2nd International Conference on Information Technology and Quantitative Management (ITQM)**Conference Date:** JUN 03-05, 2014**Conference Location:** Natl Res Univ, Higher Sch Econ, Moscow, RUSSIA**Conference Sponsors:** Int Acad Informat Technol & Quantitat Management, Yandex LLC, Chinese Acad Sci, Res Ctr Fictitious Econ & Data Sci, Univ Nebraska Omaha, Global Act Inc, CurrexSole**Conference Host:** Natl Res Univ, Higher Sch Econ**Author Keywords:** fuzzy relations; fuzzy multifunctions; fuzzy multivalued mappings; convex fuzzy processes; affine fuzzy relations; linear fuzzy relations; convex fuzzy relations**KeyWords Plus:** SETS**Addresses:** [Nadaban, S.; Dzitac, I.] Aurel Vlaicu Univ Arad, Dept Math & Comp Sci, RO-310330 Arad, Romania.

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Publisher: ELSEVIER SCIENCE BV**Publisher Address:** SARA BURGERHARTSTRAAT 25, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS**Web of Science Categories:** Computer Science, Interdisciplinary Applications; Computer Science, Theory & Methods**Research Areas:** Computer Science**IDS Number:** BD4GR**ISSN:** 1877-0509**29-char Source Abbrev.:** PROCEDIA COMPUT SCI**Source Item Page Count:** 6**Record 8 of 28****Title:** E-learning Platforms in Higher Education. Case Study**Author(s):** Benta, D (Benta, D.); Bologa, G (Bologa, G.); Dzitac, I (Dzitac, I.)**Edited by:** Shi Y; Lepskiy A; Aleskerov F**Source:** 2ND INTERNATIONAL CONFERENCE ON INFORMATION TECHNOLOGY AND QUANTITATIVE MANAGEMENT, ITQM 2014 **Book Series:** Procedia Computer Science **Volume:** 31 **Pages:** 1170-1176 **DOI:** 10.1016/j.procs.2014.05.373 **Published:** 2014

Times Cited in Web of Science Core Collection: 5**Total Times Cited:** 5**Usage Count (Last 180 days):** 2**Usage Count (Since 2013):** 2**Cited Reference Count:** 9

Abstract: This paper describes our experience in using e-learning platforms to support face to face instruction in academic field. We used Moodle as interactive e-learning tool to motivate students and involve them in resolving single and collaborative homework tasks. However, while many universities in the world use e-learning platforms, in our case this was for the first time used and it was a great teaching/learning experience. This paper aims to be easy to read and understand by proving the importance of using e-learning platforms in higher education. (C) 2014 Published by Elsevier B.V. Open access under CC BY-NC-ND license.

Accession Number: WOS:000360713800135**Language:** English**Document Type:** Proceedings Paper**Conference Title:** 2nd International Conference on Information Technology and Quantitative Management (ITQM)**Conference Date:** JUN 03-05, 2014**Conference Location:** Natl Res Univ, Higher Sch Econ, Moscow, RUSSIA**Conference Sponsors:** Int Acad Informat Technol & Quantitat Management, Yandex LLC, Chinese Acad Sci, Res Ctr Fictitious Econ & Data Sci, Univ Nebraska Omaha, Global Act Inc, CurrexSole**Conference Host:** Natl Res Univ, Higher Sch Econ**Author Keywords:** Moodle; e-learning; higher education; homework tasks**Addresses:** [Benta, D.; Bologa, G.; Dzitac, I.] Agora Univ Oradea, Dept Social Sci, RO-485526 Oradea, Romania.

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Publisher: ELSEVIER SCIENCE BV**Publisher Address:** SARA BURGERHARTSTRAAT 25, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS**Web of Science Categories:** Computer Science, Interdisciplinary Applications; Computer Science, Theory & Methods**Research Areas:** Computer Science**IDS Number:** BD4GR**ISSN:** 1877-0509**29-char Source Abbrev.:** PROCEDIA COMPUT SCI**Source Item Page Count:** 7**Record 9 of 28****Title:** Atomic Decompositions of Fuzzy Normed Linear Spaces for Wavelet Applications**Author(s):** Nadaban, S (Nadaban, Sorin); Dzitac, I (Dzitac, Ioan)**Source:** INFORMATICA **Volume:** 25 **Issue:** 4 **Pages:** 643-662 **Published:** 2014**Times Cited in Web of Science Core Collection:** 6**Total Times Cited:** 7**Usage Count (Last 180 days):** 0**Usage Count (Since 2013):** 3**Cited Reference Count:** 38

Abstract: Wavelet analysis is a powerful tool with modern applications as diverse as: image processing, signal processing, data compression, data mining, speech recognition, computer graphics, etc. The aim of this paper is to introduce the concept of atomic decomposition of fuzzy normed linear spaces, which play a key role in the development of fuzzy wavelet theory. Atomic decompositions appeared in applications to signal processing and sampling theory among other areas.

First we give a general definition of fuzzy normed linear spaces and we obtain decomposition theorems for fuzzy norms into a family of semi-norms, within more general settings. The results are both for Bag-Samanta fuzzy norms and for Katsaras fuzzy norms. As a consequence, we obtain locally convex topologies induced by this types of fuzzy norms.

The results established in this paper, constitute a foundation for the development of fuzzy operator theory and fuzzy wavelet theory within this more general frame.

Accession Number: WOS:000347513200007**Language:** English**Document Type:** Article**Author Keywords:** fuzzy wavelet; atomic decomposition; fuzzy metric space; fuzzy norm; fuzzy normed linear space (FNLS)**KeyWords Plus:** TOPOLOGICAL VECTOR-SPACES; INTEGRABLE GROUP-REPRESENTATIONS; METRIC-SPACES; TRANSFORMS; COMPRESSION**Addresses:** [Nadaban, Sorin; Dzitac, Ioan] Aurel Vlaicu Univ Arad, Dept Math & Comp Sci, RO-310330 Arad, Romania.

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Publisher: INST MATHEMATICS & INFORMATICS**Publisher Address:** AKADEMIJOS STR 4, VILNIUS LT-08663, LITHUANIA**Web of Science Categories:** Computer Science, Information Systems; Mathematics, Applied**Research Areas:** Computer Science; Mathematics**IDS Number:** AY3XQ**ISSN:** 0868-4952**eISSN:** 1822-8844**29-char Source Abbrev.:** INFORMATICA-LITHUAN

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Record 10 of 28**Title:** Editorial Challenge: From a Quarterly to a Bimonthly Journal**Author(s):** Filip, FG (Filip, Florin Gheorghe); Dzitac, I (Dzitac, Ioan)**Source:** INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 7 **Issue:** 5 **Pages:** 796-797 **Published:** DEC 2012**Times Cited in Web of Science Core Collection:** 0**Total Times Cited:** 0**Usage Count (Last 180 days):** 0**Usage Count (Since 2013):** 5**Cited Reference Count:** 1

Abstract: Starting with issue 4 of volume 7(2012) International Journal of Computers Communications & Control (INT J COMPUT COMMUN, IJCCC) [4] is a member of, and subscribes to the principles of, the Committee on Publication Ethics (COPE) [2]. Beginning with issue 1 of volume 8(2013) IJCCC will be published as a bimonthly journal (6 issues/year) [5].

Accession Number: WOS:000310664900001**Language:** English**Document Type:** Editorial Material**Author Keywords:** ethics; bimonthly journal; impact factor**Addresses:** [Filip, Florin Gheorghe] Acad Romana, Bucharest, Romania.

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Publisher: CCC PUBL-AGORA UNIV**Publisher Address:** PIATA TINERETULUI 8, ORADEA, JUD, BIHOR, 410526, ROMANIA**Web of Science Categories:** Automation & Control Systems; Computer Science, Information Systems**Research Areas:** Automation & Control Systems; Computer Science**IDS Number:** 031TJ**ISSN:** 1841-9836**29-char Source Abbrev.:** INT J COMPUT COMMUN**ISO Source Abbrev.:** Int. J. Comput. Commun. Control**Source Item Page Count:** 2**Record 11 of 28****Title:** The Role of Visual Rhetoric in Semantic Multimedia: Strategies for Decision Making in Times of Crisis**Author(s):** Brasoveanu, AMP (Brasoveanu, A. M. P.); Dzitac, I (Dzitac, I.)**Source:** INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 7 **Issue:** 4 **Pages:** 605-615 **Published:** NOV 2012**Times Cited in Web of Science Core Collection:** 0**Total Times Cited:** 0**Usage Count (Last 180 days):** 3**Usage Count (Since 2013):** 21**Cited Reference Count:** 31

Abstract: As semantic multimedia is approaching mainstream, even the great improvements that can be seen in its classic schools, like the data mining inspired Information Retrieval based on metadata analysis, or Computer Vision, might not be enough. We identify a new group that gains traction in the semantic multimedia community and which uses as starting point developments from psychology and visual communication. For the purposes of this article we restrict our domain to visual rhetoric as we consider it to yield the biggest potential for future developments.

Living in times when the periods between crises seem to be shorter and shorter, we look at how developments in semantic multimedia can be used for predicting and overcoming crises. We analyze at least 2 aspects related to this: using information visualization to understand the evolution of crises and creating multi-layered semantic multimedia technologies that can easily be adapted to use a variety of sources and solve problems from different domains. In both cases we show how techniques inspired by visual rhetoric (information linking, framing, composition) in conjunction with named entity recognition offer a lot of benefits. The section related to multi-layered semantic multimedia technologies also draws on the lessons learned while designing a prototype application aimed at improving tourism decision making process.

The article ends with a discussion on evaluation methods for multi-layered semantic technologies applications. We look at how to evaluate them on both levels: mechanisms (information linking versus raw named entity recognition when generating visuals, for example), and decision making strategies (Do such systems actually solve real problems related to crises, create jobs or at least can they be repurposed to solve other problems than the one with which we have started?).

Accession Number: WOS:000308334500002**Language:** English**Document Type:** Article**Author Keywords:** semantic multimedia; visual rhetoric; text to visual matching; interactive documentary; crisis strategies; multimedia storytelling**KeyWords Plus:** RETRIEVAL**Addresses:** [Brasoveanu, A. M. P.] MODUL Univ Vienna, Dept New Media Technol, A-1190 Vienna, Austria.

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Web of Science Categories: Automation & Control Systems; Computer Science, Information Systems
Research Areas: Automation & Control Systems; Computer Science
IDS Number: 999SI
ISSN: 1841-9836
eISSN: 1841-9844
29-char Source Abbrev.: INT J COMPUT COMMUN
ISO Source Abbrev.: Int. J. Comput. Commun. Control
Source Item Page Count: 11

Record 12 of 28**Title:** Identification of ERD using Fuzzy Inference Systems for Brain-Computer Interface**Author(s):** Dzitac, I (Dzitac, I); Vesselenyi, T (Vesselenyi, T); Tarca, RC (Tarca, R. C.)**Source:** INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 6 **Issue:** 3 **Special Issue:** SI **Pages:** 403-417 **Published:** SEP 2011**Times Cited in Web of Science Core Collection:** 2**Total Times Cited:** 2**Usage Count (Last 180 days):** 0**Usage Count (Since 2013):** 6**Cited Reference Count:** 46

Abstract: A Brain-Computer Interface uses measurements of scalp electric potential (electroencephalography - EEG) reflecting brain activity, to communicate with external devices. Recent developments in electronics and computer sciences have enabled applications that may help users with disabilities and also to develop new types of Human Machine Interfaces. By producing modifications in their brain potential activity, the users can perform control of different devices. In order to perform actions, this EEG signals must be processed with proper algorithms. Our approach is based on a fuzzy inference system used to produce sharp control states from noisy EEG data.

Accession Number: WOS:000294513700003**Language:** English**Document Type:** Article**Author Keywords:** Event Related Desynchronization (ERD); Brain-Computer Interface (BCI); electroencephalography (EEG); fuzzy inference system**KeyWords Plus:** FEATURE-EXTRACTION; CLASSIFYING EEG; MOVEMENTS; TASKS; QUANTIFICATION; PERFORMANCE; SIGNALS; LOGIC**Addresses:** [Dzitac, I.] Aurel Vlaicu Univ Arad, Dept Math Informat, Arad, Romania.

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Klotz, Wolfgang		0000-0001-7269-3473
Manik, Tumpal		0000-0002-8947-4776
F. Al Marjani, Mohammed		0000-0002-1331-2201

Publisher: CCC PUBL-AGORA UNIV**Publisher Address:** PIATA TINERETULUI 8, ORADEA, JUD. BIHOR, 410526, ROMANIA**Web of Science Categories:** Automation & Control Systems; Computer Science, Information Systems**Research Areas:** Automation & Control Systems; Computer Science**IDS Number:** 815GI**ISSN:** 1841-9836**29-char Source Abbrev.:** INT J COMPUT COMMUN**ISO Source Abbrev.:** Int. J. Comput. Commun. Control**Source Item Page Count:** 15**Record 13 of 28****Title:** How to Write a Good Paper in Computer Science and How Will It Be Measured by ISI Web of Knowledge**Author(s):** Andonie, R (Andonie, R.); Dzitac, I (Dzitac, I.)**Source:** INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 5 **Issue:** 4 **Pages:** 432-446 **Published:** NOV 2010**Times Cited in Web of Science Core Collection:** 2**Total Times Cited:** 3**Usage Count (Last 180 days):** 3**Usage Count (Since 2013):** 13**Cited Reference Count:** 14

Abstract: The academic world has come to place enormous weight on bibliometric measures to assess the value of scientific publications. Our paper has two major goals. First, we discuss the limits of numerical assessment tools as applied to computer science publications. Second, we give guidelines on how to write a good paper, where to submit the manuscript, and how to deal with the reviewing process. We report our experience as editors of International Journal of Computers Communications & Control (IJCCC). We analyze two important aspects of publishing: plagiarism and peer reviewing. As an example, we discuss the promotion assessment criteria used in the Romanian academic system. We express openly our concerns about how our work is evaluated, especially by the existent bibliometric products. Our conclusion is that we should combine bibliometric measures with human interpretation.

Accession Number: WOS:000282600700002**Language:** English**Document Type:** Article**Author Keywords:** scientific publication; publication assessment; plagiarism; reviewing; bibliometric indices**KeyWords Plus:** IMPACT**Addresses:** [Andonie, R.] Cent Washington Univ, Dept Comp Sci, Ellensburg, WA 98926 USA.

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Publisher: CCC PUBL-AGORA UNIV

Publisher Address: PIATA TINERETULUI 8, ORADEA, JUD, BIHOR, 410526, ROMANIA

Web of Science Categories: Automation & Control Systems; Computer Science, Information Systems

Research Areas: Automation & Control Systems; Computer Science

IDS Number: 659XM

ISSN: 1841-9836

29-char Source Abbrev.: INT J COMPUT COMMUN

ISO Source Abbrev.: Int. J. Comput. Commun. Control

Source Item Page Count: 15

Record 14 of 28

Title: Acad. Solomon Marcus at 85 Years (A Selective Bio-bibliography)

Author(s): Filip, FG (Filip, F. G.); Dzitac, I (Dzitac, I.)

Source: INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 5 **Issue:** 2 **Pages:** 144-147 **Published:** JUN 2010

Times Cited in Web of Science Core Collection: 0

Total Times Cited: 0

Usage Count (Last 180 days): 1

Usage Count (Since 2013): 2

Cited Reference Count: 0

Accession Number: WOS:000275741400001

Language: English

Document Type: Biographical-Item

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Web of Science Categories: Automation & Control Systems; Computer Science, Information Systems

Research Areas: Automation & Control Systems; Computer Science

IDS Number: 571HA

ISSN: 1841-9836

29-char Source Abbrev.: INT J COMPUT COMMUN

ISO Source Abbrev.: Int. J. Comput. Commun. Control

Source Item Page Count: 4

Record 15 of 28

Title: Synthetic Genes for Artificial Ants. Diversity in Ant Colony Optimization Algorithms

Author(s): Negulescu, SC (Negulescu, Sorin C.); Dzitac, I (Dzitac, Ioan); Lascu, AE (Lascu, Alina E.)

Source: INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 5 **Issue:** 2 **Pages:** 216-223 **Published:** JUN 2010

Times Cited in Web of Science Core Collection: 4

Total Times Cited: 4

Usage Count (Last 180 days): 1

Usage Count (Since 2013): 3

Cited Reference Count: 17

Abstract: Inspired from the fact that the real world ants from within a colony are not clones (although they may look alike, they are different from one another), in this paper, the authors are presenting an adapted ant colony optimisation (ACO) algorithm that incorporates methods and ideas from genetic algorithms (GA). Following the first (introductory) section of the paper is presented the history and the state of the art, beginning with the stigmergy and genetic concepts and ending with the latest ACO algorithm variants as multiagent systems (MAS). The rationale and the approach sections are aiming at presenting the problems with current stigmergy-based algorithms and at proposing a (possible - yet to be fully verified) solution to some of the problems ("synthetic genes" for artificial ants). A model used for validating the proposed solution is presented in the next section together with some preliminary simulation results. Some of the conclusions regarding the main subject of the paper (synthetic genes: agents within the MAS with different behaviours) that are closing the paper are: a) the convergence speed of the ACO algorithms can be improved using this approach; b) these "synthetic genes" can be easily implemented (as local variables or properties of the agents); c) the MAS is self-adapting to the specific problem that needs to be optimized.

Accession Number: WOS:000275741400008

Language: English

Document Type: Article

Author Keywords: Ant Colony Optimization; Genetic Algorithms; Multiagent Systems; Stigmergy

KeyWords Plus: SYSTEMS; AGENTS

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F. Al Marjani, Mohammed		0000-0002-1331-2201

Publisher: CCC PUBL-AGORA UNIV

Publisher Address: PIATA TINERETULUI 8, ORADEA, JUD, BIHOR, 410526, ROMANIA

Web of Science Categories: Automation & Control Systems; Computer Science, Information Systems

Research Areas: Automation & Control Systems; Computer Science**IDS Number:** 571HA**ISSN:** 1841-9836**29-char Source Abbrev.:** INT J COMPUT COMMUN**ISO Source Abbrev.:** Int. J. Comput. Commun. Control**Source Item Page Count:** 8**Record 16 of 28****Title:** Models of availability maximization applied to "k-out-of-n" structures for power systems**Author(s):** Felea, I (Felea, I.); Dzitac, S (Dzitac, S.); Popentiu, F (Popentiu, F.); Dzitac, I (Dzitac, I.)**Edited by:** Bris R; Soares CG; Martorell S**Source:** RELIABILITY, RISK AND SAFETY: THEORY AND APPLICATIONS VOLS 1-3 **Pages:** 607-614 **Published:** 2010**Times Cited in Web of Science Core Collection:** 1**Total Times Cited:** 1**Usage Count (Last 180 days):** 0**Usage Count (Since 2013):** 1**Cited Reference Count:** 12

Abstract: This paper deals with maintenance aspects focused on reliability and it is divided into three parts. In the first part we focused on the structural and functional optimisation of the "k-out-of-n" type systems, including also authors' contributions. Accordingly, we have introduced in the second part models which maximize the availability of general structures of "k-out-of-n", with an emphasis on the particular cases of $n = k + 1$ and $n = k + 2$ type structures. The analysis takes into account the impact of reliability and maintainability on availability aspects, and expresses the indicators that configure the maintenance program. We have determined the time interval when the availability gain increases, the maximum value of the availability gain and the availability value at the start-up of the maintenance phase. The third part is concerned with the particular implementations of the models in practical situations as well as the applications for power systems.

Accession Number: WOS:000281188500083**Language:** English**Document Type:** Proceedings Paper**Conference Title:** European Safety and Reliability Conference (ESREL 2009)**Conference Date:** SEP 07-10, 2009**Conference Location:** Prague, CZECH REPUBLIC**Conference Sponsors:** VSB, Tech Univ Ostrava, RWE Transgas Net**Addresses:** [Felea, I.; Dzitac, S.; Popentiu, F.] Univ Oradea, Oradea, Romania.**Reprint Address:** Felea, I (reprint author), Univ Oradea, Oradea, Romania.**Author Identifiers:**

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Publisher: CRC PRESS-TAYLOR & FRANCIS GROUP**Publisher Address:** 6000 BROKEN SOUND PARKWAY NW, STE 300, BOCA RATON, FL 33487-2742 USA**Web of Science Categories:** Computer Science, Theory & Methods; Engineering, Electrical & Electronic**Research Areas:** Computer Science; Engineering**IDS Number:** BQJ73**ISBN:** 978-0-415-55509-8**Source Item Page Count:** 8**Record 17 of 28****Title:** An ACO Algorithm for Optimal Capacitor Banks Placement in Power Distribution Networks**Author(s):** Secui, DC (Secui, Dinu Calin); Dzitac, S (Dzitac, Simona); Bendea, GV (Bendea, Gabriel Valentin); Dzitac, I (Dzitac, Ioan)**Source:** STUDIES IN INFORMATICS AND CONTROL **Volume:** 18 **Issue:** 4 **Pages:** 305-314 **Published:** DEC 2009**Times Cited in Web of Science Core Collection:** 5**Total Times Cited:** 5**Usage Count (Last 180 days):** 1**Usage Count (Since 2013):** 5**Cited Reference Count:** 25

Abstract: This paper aims to present and apply an algorithm based on Ant Colony Optimization (ACO) for optimal allocation of capacitor banks in electric power distribution networks. A nonlinear function based on oil costs is used as a criterion of the mathematical optimization model. Also, the model imposes equality constraints described by the network operating equations and inequality constraints required to maintain within admissible limits the parameters characterizing the system state. The algorithm is applied for a test-network having 35 nodes, with results indicating its validity and efficiency.

Accession Number: WOS:000272759700002**Language:** English**Document Type:** Article**Author Keywords:** Ant colony optimization algorithm (ACO); capacitor banks placement; power loss reduction**KeyWords Plus:** GENETIC ALGORITHM; REACTIVE POWER; ANT; SYSTEMS; RECONFIGURATION; OPTIMIZATION; REDUCTION**Addresses:** [Secui, Dinu Calin; Dzitac, Simona; Bendea, Gabriel Valentin] Univ Oradea, Oradea, Romania.

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Publisher: NATL INST R&D INFORMATICS-ICI**Publisher Address:** PUBL DEPT, 8-10 AVERESCU BLVD, SECTOR 1, BUCHAREST, 011455, ROMANIA**Web of Science Categories:** Automation & Control Systems; Operations Research & Management Science**Research Areas:** Automation & Control Systems; Operations Research & Management Science**IDS Number:** 532OQ**ISSN:** 1220-1766

29-char Source Abbrev.: STUD INFORM CONTROL**ISO Source Abbrev.:** Stud. Inform. Control**Source Item Page Count:** 10**Record 18 of 28****Title:** Artificial Intelligence plus Distributed Systems = Agents**Author(s):** Dzitac, I (Dzitac, Ioan); Barbat, BE (Barbat, Boldur E.)**Source:** INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 4 **Issue:** 1 **Pages:** 17-26 **Published:** MAR 2009**Times Cited in Web of Science Core Collection:** 24**Total Times Cited:** 24**Usage Count (Last 180 days):** 0**Usage Count (Since 2013):** 19**Cited Reference Count:** 24

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).

Accession Number: WOS:000262821700002**Language:** English**Document Type:** Article**Author Keywords:** open, heterogeneous, dynamic and uncertain environments (OHDUE); computer-aided decision-making; nonalgorithmic software; bounded rationality; agent-oriented software engineering (AOSE)**Addresses:** [Dzitac, Ioan] Aurel Vlaicu Univ Arad, Fac Exact Sci, Dept Math Informat, Arad, Romania.

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Publisher: CCC PUBL-AGORA UNIV**Publisher Address:** PIATA TINERETULUI 8, ORADEA, JUD, BIHOR, 410526, ROMANIA**Web of Science Categories:** Automation & Control Systems; Computer Science, Information Systems**Research Areas:** Automation & Control Systems; Computer Science**IDS Number:** 399TH**ISSN:** 1841-9836**29-char Source Abbrev.:** INT J COMPUT COMMUN**ISO Source Abbrev.:** Int. J. Comput. Commun. Control**Source Item Page Count:** 10**Record 19 of 28****Title:** Preliminary Issues on Brain-Machine Contextual Communication Structure Development**Author(s):** Vesselenyi, T (Vesselenyi, T.); Dzitac, I (Dzitac, I.); Dzitac, S (Dzitac, S.); Hora, C (Hora, C.); Porumb, C (Porumb, C.)**Book Group Author(s):** IEEE**Source:** SOFA 2009: 3RD INTERNATIONAL WORKSHOP ON SOFT COMPUTING APPLICATIONS, PROCEEDINGS **Pages:** 35-40 **Published:** 2009**Times Cited in Web of Science Core Collection:** 1**Total Times Cited:** 1**Usage Count (Last 180 days):** 0**Usage Count (Since 2013):** 2**Cited Reference Count:** 56

Abstract: The increasing sophistication of computer programs and communication systems requires the development of more efficient and interactive human-computer interfaces. One solution to this problem could be the brain - machine interfaces. The aim of this paper is to explore the possibilities of using context dependent interpretations of EEG signals, in addition to signal processing techniques.

Accession Number: WOS:000275159600007**Language:** English**Document Type:** Proceedings Paper**Conference Title:** 3rd International Workshop on Soft Computing Applications**Conference Date:** JUL 29-AUG 01, 2009**Conference Location:** Szeged, HUNGARY**Conference Sponsors:** IEEE Computat Intelligence soc, IEEE Hungary Sect, EUROFUSE, Hungarian Fuzzy Assoc, BMT Resources, Grupul Scolar Transporturi Auto, Henri Coanda Arad**KeyWords Plus:** COMPUTER INTERFACE APPLICATIONS; CLASSIFYING EEG; MOVEMENT; SYSTEMS; TASKS; FMRI; PERFORMANCE; PREDICTION; FEATURES; SIGNALS**Addresses:** [Vesselenyi, T.; Dzitac, S.; Hora, C.; Porumb, C.] Univ Oradea, Oradea 410087, Romania.**Reprint Address:** Vesselenyi, T (reprint author), Univ Oradea, Univ St 1, Oradea 410087, Romania.**Author Identifiers:**

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Publisher: IEEE**Publisher Address:** 345 E 47TH ST, NEW YORK, NY 10017 USA**Web of Science Categories:** Computer Science, Software Engineering; Engineering, Electrical & Electronic**Research Areas:** Computer Science; Engineering**IDS Number:** BNO96

ISBN: 978-1-4244-5054-1

Source Item Page Count: 6

Record 20 of 28**Title:** Wear Simulation through Cellular Automata Method**Author(s):** Hora, C (Hora, C.); Vesselenyi, T (Vesselenyi, T.); Dzitac, S (Dzitac, S.); Dzitac, I (Dzitac, I); Hora, H (Hora, H.)**Book Group Author(s):** IEEE**Source:** SOFA 2009: 3RD INTERNATIONAL WORKSHOP ON SOFT COMPUTING APPLICATIONS, PROCEEDINGS **Pages:** 41-46 **Published:** 2009**Times Cited in Web of Science Core Collection:** 0**Total Times Cited:** 0**Usage Count (Last 180 days):** 0**Usage Count (Since 2013):** 1**Cited Reference Count:** 5

Abstract: Cellular automata (CA) are used to simulate a various number of complex processes, based on simple rules applied to a large population of cells. Wear of turbine blades is also a very complex process which is analyzed in most cases using empirical data. The model described in this paper uses cellular automata obeying a set of rules and using values of initial state parameters which were computed by FEA flow analysis (fluid pressure and velocity). The model is then adjusted using experimental data. The obtained results, corresponds to former studies and observations. Further developments can be made by alternatively applying FEA analysis and CA simulation in order to increase model accuracy.

Accession Number: WOS:000275159600008**Language:** English**Document Type:** Proceedings Paper**Conference Title:** 3rd International Workshop on Soft Computing Applications**Conference Date:** JUL 29-AUG 01, 2009**Conference Location:** Szeged, HUNGARY**Conference Sponsors:** IEEE Computat Intelligence soc, IEEE Hungary Sect, EUROFUSE, Hungarian Fuzzy Assoc, BMT Resources, Grupul Scolar Transporturi Auto, Henri Coanda Arad**Addresses:** [Hora, C.; Vesselenyi, T.; Dzitac, S.; Hora, H.] Univ Oradea, IEEE Conf Publishing, Oradea 410087, Romania.**Reprint Address:** Hora, C (reprint author), Univ Oradea, IEEE Conf Publishing, Univ St 1, Oradea 410087, Romania.**Author Identifiers:**

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Publisher: IEEE**Publisher Address:** 345 E 47TH ST, NEW YORK, NY 10017 USA**Web of Science Categories:** Computer Science, Software Engineering; Engineering, Electrical & Electronic**Research Areas:** Computer Science; Engineering**IDS Number:** BNO96

ISBN: 978-1-4244-5054-1

Source Item Page Count: 6

Record 21 of 28**Title:** ICCCC 2008 & EWNLC 2008 celebrates Bardeen's Centenary and welcomes Professor Zadeh**Author(s):** Dzitac, I (Dzitac, Ioan)**Source:** INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 3 **Pages:** 16-25 **Supplement:** S **Published:** 2008**Times Cited in Web of Science Core Collection:** 1**Total Times Cited:** 1**Usage Count (Last 180 days):** 7**Usage Count (Since 2013):** 10**Cited Reference Count:** 0

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) [3-24], the co-inventor of the transistor, a very important element in the development of the computers and the communications.

ICCC 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 (1973) 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), Boldur 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), Grigor Moldovan (Babes-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 scientist 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 IJCCC, Vol.III(2008), suppl. issue, 2008.

Accession Number: WOS:000257497600001**Language:** English**Document Type:** Editorial Material**E-mail Addresses:** idzitac@univagora.ro**Author Identifiers:**

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Publisher Address: PIATA TINERETULUI 8, ORADEA, JUD, BIHOR, 410526, ROMANIA

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IDS Number: 324DJ

ISSN: 1841-9836

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ISO Source Abbrev.: Int. J. Comput. Commun. Control

Source Item Page Count: 10

Record 22 of 28

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

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

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

Times Cited in Web of Science Core Collection: 5

Total Times Cited: 5

Usage Count (Last 180 days): 0

Usage Count (Since 2013): 4

Cited Reference Count: 8

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.

Accession Number: WOS:000257497600043

Language: English

Document Type: Article

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

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Publisher: CCC PUBL-AGORA UNIV

Publisher Address: PIATA TINERETULUI 8, ORADEA, JUD, BIHOR, 410526, ROMANIA

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ISO Source Abbrev.: Int. J. Comput. Commun. Control

Source Item Page Count: 6

Record 23 of 28

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

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

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

Times Cited in Web of Science Core Collection: 2

Total Times Cited: 2

Usage Count (Last 180 days): 0

Usage Count (Since 2013): 3

Cited Reference Count: 14

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.

Accession Number: WOS:000257275300008

Language: English

Document Type: Article

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

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Publisher: CCC PUBL-AGORA UNIV

Publisher Address: PIATA TINERETULUI 8, ORADEA, JUD, BIHOR, 410526, ROMANIA

Web of Science Categories: Automation & Control Systems; Computer Science, Information Systems

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IDS Number: 321AB

ISSN: 1841-9836

29-char Source Abbrev.: INT J COMPUT COMMUN

ISO Source Abbrev.: Int. J. Comput. Commun. Control

Source Item Page Count: 13

Record 24 of 28

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

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

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

Times Cited in Web of Science Core Collection: 2

Total Times Cited: 2

Usage Count (Last 180 days): 0

Usage Count (Since 2013): 1

Cited Reference Count: 6

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.

Accession Number: WOS:000257497600059

Language: English

Document Type: Article

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

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Source Item Page Count: 6

Record 25 of 28

Title: Advanced AI Techniques for Web Mining

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

Edited by: 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 in Web of Science Core Collection: 6

Total Times Cited: 6

Usage Count (Last 180 days): 0

Usage Count (Since 2013): 1

Cited Reference Count: 25

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.

Accession Number: WOS:000262507100062

Language: English

Document Type: Proceedings Paper

Conference Title: 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

Conference Date: OCT 26-28, 2008

Conference Location: Corfu, GREECE

Conference Sponsors: WSEAS

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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Publisher: WORLD SCIENTIFIC AND ENGINEERING ACAD AND SOC

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Web of Science Categories: Computer Science, Interdisciplinary Applications; Mathematics, Applied

Research Areas: Computer Science; Mathematics

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29-char Source Abbrev.: MATH COMPUT SCI ENG

Source Item Page Count: 4

Record 26 of 28

Title: 60 years from birth of academician F.G. Filip

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

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

Times Cited in Web of Science Core Collection: 2

Total Times Cited: 2

Usage Count (Last 180 days): 0

Usage Count (Since 2013): 2

Cited Reference Count: 1

Accession Number: WOS:000255333000001

Language: English

Document Type: Biographical-Item

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IDS Number: 293KA

ISSN: 1841-9836

29-char Source Abbrev.: INT J COMPUT COMMUN

ISO Source Abbrev.: Int. J. Comput. Commun. Control

Source Item Page Count: 8

Record 27 of 28

Title: Fuzzy and neural controllers for a pneumatic actuator

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

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

Times Cited in Web of Science Core Collection: 15

Total Times Cited: 15

Usage Count (Last 180 days): 1

Usage Count (Since 2013): 8

Cited Reference Count: 13

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.

Accession Number: WOS:000255333100007

Language: English

Document Type: Article

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

Key Words Plus: DESIGN

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Publisher: CCC PUBL-AGORA UNIV

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Web of Science Categories: Automation & Control Systems; Computer Science, Information Systems

Research Areas: Automation & Control Systems; Computer Science**IDS Number:** 293KB**ISSN:** 1841-9836**29-char Source Abbrev.:** INT J COMPUT COMMUN**ISO Source Abbrev.:** Int. J. Comput. Commun. Control**Source Item Page Count:** 13**Record 28 of 28****Title:** On a fuzzy linguistic approach to solving multiple criteria fractional programming problem**Author(s):** Pop, B (Pop, Bogdana); Dzitac, I (Dzitac, Ioan)**Source:** INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 1 **Pages:** 381-385 **Supplement:** S **Published:** 2006**Times Cited in Web of Science Core Collection:** 1**Total Times Cited:** 1**Usage Count (Last 180 days):** 1**Usage Count (Since 2013):** 2**Cited Reference Count:** 9**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.**Accession Number:** WOS:000203014800064**Language:** English**Document Type:** Article**Author Keywords:** fuzzy optimization; linguistic variable; multi-objective programming; linear fractional programming**Addresses:** [Pop, Bogdana] Transilvania Univ Brasov, Dept Comp Sci, Brasov 500091, Romania.

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Publisher: CCC PUBL-AGORA UNIV**Publisher Address:** PIATA TINERETULUI 8, ORADEA, JUD, BIHOR, 410526, ROMANIA**Web of Science Categories:** Automation & Control Systems; Computer Science, Information Systems**Research Areas:** Automation & Control Systems; Computer Science**IDS Number:** V44PO**ISSN:** 1841-9836**29-char Source Abbrev.:** INT J COMPUT COMMUN**ISO Source Abbrev.:** Int. J. Comput. Commun. Control**Source Item Page Count:** 5

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