

	Electrical – Mechanical Eng.		
University of Bradford, West Yorkshire, UK, Bradford, 1980	Master of Science in Control Eng. (1979-1980), Postgraduate School of Control Eng, M.Sc. &	A microcomputer-based cross-correlator for fluid flow measurement and control	S.Barnett, (Bradford) B. Kouvaritakis (Oxford), M.S. Beck (UMIST)
		<i>Financial support UK Engineering & Physical Science Research Council Nuclear Fuel Reprocessing Plant CEGB grants GR/ L98237 (Steel project) and the Platform Grant (GR/R04683-01)</i>	
		https://openlibrary.org/works/OL10564687W/A_microcomputer-based_cross-correlator_for_fluid_flow_measurement	
University of Bradford, West Yorkshire, UK	Ph.D. Microprocessor-based Control & Instrumentation (1980-1983), University of Bradford, Yorkshire, GB, Postgraduate School Control Eng	(Flow measurement and control using (4-bit) microcomputer transit time correlations of thermal tracers),	<i>Professor M.G. Mylroi, Dr. R. Fell, Dr. J.R. Jordan, (University of Edinburgh)</i>
		https://openlibrary.org/works/OL10694651W/Flow_measurement_using_microcomputer_transit_time_correlations_of_thermal_tracers	
! μ A	(1968-1974)	μ : 19 5/12	

Δ. ΕΠΑΓΓΕΛΜΑΤΙΚΗ ΠΡΟΥΠΗΡΕΣΙΑ – PROFESSIONAL EXPERIENCE:

1985: R (. . . .) E -80, μ μ SCADA ,

1985: _____, _____ :
 T _____, _____, _____, _____ μ (ATC, Automatic Train Control)

1985-88: _____ _____ System Eng. D.C.S. - - μ
 _____, μ μ

1988-89: _____ & μ μ ,
 _____, _____
 1988: _____, _____

1989-92: _____ I _____ μ
 μ _____, Fundus Camera, μ

1983 - 85: _____ H/Y CYBER 170/825,

Παροχή διδακτικού έργου σε ΑΕΙ της ημεδαπής και αλλοδαπής

Ο Καθηγητής Βέντζας Δ υπήρξε ΠΔ 407, Διδάσκων ερευνητής στα:

1. ΤΕΙ Θεσσαλίας, 2000-σήμερα, Τμήμα Μηχανικών Πληροφορικής ΤΕ, Ψηφιακή Επεξεργασία Σήματος, ΣΑΕ, Βιομηχανική Πληροφορική
2. Πανεπιστήμιο Θεσσαλίας (1992-2010), Τμήμα Μηχανολόγων, Μηχανικών, (ΣΑΕ, Μετρήσεις στην Ενεργειακή Περιοχή, Ρομποτική, Στοχαστικές Διαδικασίες και Αποθέματα, κ.λπ.)
2. ΕΜΠ, Τμήμα Μηχανολόγων Μηχανικών, Σεμινάρια, Διαλέξεις ΣΑΕ & Μετρήσεις, Έρευνα, Επίβλεψη Πτυχιακών και Διδακτορικών
3. University of Bradford, UK, Microprocessor based Control & Instrumentation, Postgraduate School of Control Eng, Research Assistant
4. Πανεπιστήμιο Θεσσαλίας (2010-18), Τμήμα Γεωπονίας, Μεταπτυχιακό Αυτοματισμών στη Γεωπονία, Εισαγωγή στον αυτόματο έλεγχο, Βιομηχανικός και ευφυής έλεγχος με εφαρμογές στη Γεωργία, Αυτοματισμοί στα γεωργικά μηχανήματα, Ρομποτικές εφαρμογές στη γεωργική τεχνολογία
5. Πανεπιστήμιο Θεσσαλίας (1997-2010), Τμήμα Μηχανολόγων Μηχανικών, Μεταπτυχιακό σε Ενεργειακές Μετρήσεις

6. ΤΕΙ Αθήνας, 1987-1993, Καθηγητής, Τμήμα Βιοϊατρικής Τεχνολογίας (Ιατρικών Οργάνων, ΤΙΟ) ΣΑΕ, Βιο-Τηλεμετρία, Ιατρικά Μηχανήματα Ι, Συντήρηση Ιατρικών Μηχανημάτων, Βιοαυτοματισμοί
7. ΤΕΙ Λαμίας, 1993-2000, Καθηγητής, Τμήμα Ηλεκτρονικής, ΣΑΕ, Ηλεκτρονικές Μετρήσεις, Επεξεργασία Σήματος, Ρομποτική, Βιοϊατρικά Μηχανήματα
8. ΤΕΙ Θεσσαλίας, **Μεταπτυχιακό** Πρόγραμμα Σπουδών, Μ.Sc. «Μηχανικών Η/Υ και Συστημάτων – Ευφυή Συστήματα και IoT» / « Computer and Systems Engineering – Smart Systems and Internet of Things», του Τμήματος Μηχανικών Πληροφορικής ΤΕ του ΤΕΙ Θεσσαλίας 2016-2019
9. ΤΕΙ Θεσσαλίας, University of Staffordshire, U.K., **Μεταπτυχιακό** Πρόγραμμα Σπουδών στην Επιστήμη Πληροφορικής σε σύμπραξη, **Επεξεργασία Εικόνων**, 2005-2007

Διοικητική εμπειρία – Managerial Experience

1. Υπεύθυνος Τομέα Οργάνων Δικτύου DCS ΕΛΔΑ, 1985-1987
2. **Προϊστάμενος** & Αν. Προϊστάμενος ΤΙΟ ΤΕΙ Αθήνας, 1989-1990, κ.λπ.
3. Υπεύθυνος Τομέα ΤΕΙ Αθήνας, Λαμίας, Λάρισας, 1987 - σήμερα
4. Εκπρόσωπος - Αν. Εκπρόσωπος ΕΕ ΤΕΙ Αθήνας και Λαμίας, 1987 – 2000
5. ΕΠΙΣΤΗΜΟΝΙΚΟΣ ΔΙΕΥΘΥΝΤΗΣ ΙΔΒΕ, ΤΕΙ ΘΕΣΣΑΛΙΑΣ, 31/07/2013 – 17/01/2014 - 31-12-2017, ΑΠ ΤΕΙ-5135 / 31-7-2013, ΑΠ ΤΕΙ-313 / 17-1-2014
6. ΕΠΙΣΤΗΜΟΝΙΚΟΣ ΔΙΕΥΘΥΝΤΗΣ ΠΜΣ
7. ΕΠΙΣΤΗΜΟΝΙΚΟΣ ΔΙΕΥΘΥΝΤΗΣ Εργαστηρίου, ΤΕΙ Λάρισας, CECS Lab Computer Engineering and Control Systems Lab, <http://cecslab.teilar.gr/>, Τμήμα Μηχανικών Πληροφορικής ΤΕ

Αξιολογητής - Conference Reviewer

_____	34:		https://edbm34.grnet.gr/
μμ	μ	2017-8	
CONFERENCE REVIEWER			
SAI Conference 2015, Reviewer / Technical Program Committee Member		2015	https://cmt.research.microsoft.com/SAI2015

SAI Conference 2014, Science and Information Conference 2014	August 27-29, 2014, London, UK	
KCST 2016, The 20th Multi-conference on Systemics, Cybernetics and Informatics: WMSCI 2016, Special Track on Knowledge and Cognitive Science and Technologies	July 5 - 8, 2016 – Orlando, Florida, USA	
EIIC 2014 3rd Electronic International Interdisciplinary Conference 2014, Reviewer	1st-5th September, 2014	www.eiic.cz
Knowledge and Cognitive Science and Technologies: KCST 2015, The 19th Multi-conference on Systemics, Cybernetics and Informatics: WMSCI 2015, July 12 - 15, 2015 – Orlando, Florida, USA		http://www.iis2015.org/wmsci/reviewers/ , http://www.iis2016.org/wmsci/Website/AdditionalReviewers.asp?vc=59
1 μ	23-25 2015,	

INTERNATIONAL CONFERENCES Reviewer - Journal Reviewer			
Journal	Paper	Reviewer	ACTA Press / IASTED
International Journal of Computers and Applications	http://www.actapress.com		2004, 2005, 2006, 2010, 2011, 2013, 2014
Information Fusion , Volume 11, Issue 4, October 2010, Pages 387–389,		Dasarathy, Belur V. "Reviewers 2009: Acknowledgments."	Information Fusion 11 (2010): 387-389.
Journal of Systemics, Cybernetics and Informatics	Copyright © 2003 - 2013 International Institute of Informatics and Cybernetics, IIIC, www.iis.org	ISSN: 1690-4524 (Online), Indexed by EBSCO, Cabell, DOAJ (Directory of Open Access Journals), Academic Journals Database, and Google Scholar http://www.iiscsci.org/journal/sci/JournalReviewers.asp?var	
Science Journal of Circuits, Systems and Signal Processing, SciencePG		Editorial board member, peer reviewer	
Reviewers List - WSEAS			2003 - μ
SAI Conference 2014			

Πλήθος δημοσιεύσεων με μέλη ΔΕΠ άλλων ΑΕΙ της ημεδαπής και αλλοδαπής

Ο καθηγητής Δ. Βέντζας έχει δημοσιεύσει συνολικά περί τα 100 άρθρα (30 άρθρα σε περιοδικά, 50 άρθρα σε διεθνή συνέδρια και 9 κεφάλαια σε συλλογικούς τόμους) και 3 βιβλία με μέλη ΔΕΠ άλλων ΑΕΙ της ημεδαπής, Πανεπιστήμιο Θεσσαλίας, ΕΜΠ, ΤΕΙ Αθηνών, ΤΕΙ Λαμίας, και της αλλοδαπής, University of Bradford UK, εταιρίες και στελέχη εταιριών ΕΛΔΑ, ΕΛΠΕ, ΟΣΕ, ΑΓΕΤ, ΕΜΥ. Διαθέτει πάνω από 200 ετεροαναφορές σε Περιοδικά, Συνέδρια και Ερευνητικές Εργασίες.

Αναλυτικός κατάλογος Επιστημονικών δημοσιεύσεων ανά κατηγορία

<https://app.dimensions.ai/discover/publication>

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- NON DESTRUCTIVE TESTING
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C.V. Karapoulios, D. E. Ventzas, S. N. Xanthakis, Qualitative Software Dynamics, International Conference on Computational Intelligence for Modelling, Control and Automation - CIMCA'2005, reviewed by at least 3 reviewers, 28-30 November 2005, Volume: 2, Pages: 581 – 586, Vienna – Austria, IEEE Conferences https://app.dimensions.ai/details/publication/pub.1094209885?search_text=Ventzas&search_type=kws&search_field=full_search
D.E. Ventzas and P. Tsiakaras. "Modeling the Transient Bubbling Mechanism of a Fluidized Bed Combustor", International Conference on Contribution of Cognition to Modeling, pp. 34-38, 1998, Lyon, France
D.Ventzas and P.Tsiakaras, Multibody dynamics in complex object control: an internal combustion engine dynamometer test, International Conference on Multibody dynamics, New Technologies and Applications, pp139-145, 1998
International Conference on Traffic and Transport Engineering - Belgrade, November 27-28, 2014, TEMPORAL DATA WAREHOUSE APPROACH FOR ACCIDENT MONITORING IN CROSSROADS - Georgia Garani, George K. Adam, Dimitrios Ventzas Georgia Garani ¹ , George K. Adam ² , Dimitrios Ventzas ³ 1,2,3 Department of Computer Science and Engineering, Technological Educational Institute of Thessaly, Larissa, Greece Abstract: Nowadays, methodologies and techniques used for road traffic data processing and analysis are continuously evolving with specific statistical analysis methods being proposed for this purpose. An example of this is crossroad monitoring, where the increasing complexity of human factors, as well as the diversity of technological aspects, affect the road control system and require suitable tools for its management. Furthermore, increased traffic is observed at crossroads where accidents constitute a major problem. Conclusively, the recording and processing of a vast amount of data relevant to accident occurrences in crossroads is of high priority, as it could assist in minimizing such occurrences by improving our understanding of and ability to confront their causes. Data warehouses are collections of data specifically designed for the support of decision making by data querying, reporting and analysis. A data warehouse supporting historical data is called a temporal data warehouse. In this paper a temporal data warehouse model is proposed and evaluated for accident monitoring in crossroads. The crossroads' accident data warehouse is logically modelled using a temporal star schema which forms an integration of the star schema and the snowflake schema. The expressive power of the model is validated by a number of temporal SQL queries in Oracle 11g. Evaluation

<p>results have shown that the proposed approach is promising compared to the star schema and the snowflake schema. Keywords: Crossroad, Road Traffic Data, Data Warehouse</p>
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Συμμετοχή σε ερευνητικά έργα με συμμετοχή άλλων τμημάτων ΑΕΙ της ημεδαπής και της αλλοδαπής

Ο καθηγητής **Βέντζας Δημήτριος** έχει συμμετάσχει ως:

1. Μέλος Ερευνητικής Ομάδας, British Nuclear Fuel Reprocessing Plant, CEGB, UK, R. Fell & M. G. Mylroi, 1979-83
2. Μέλος Ερευνητικής Ομάδας, Pilkington SA, St Helens, Merseyside, UK, R. Fell & M. G. Mylroi, 1982
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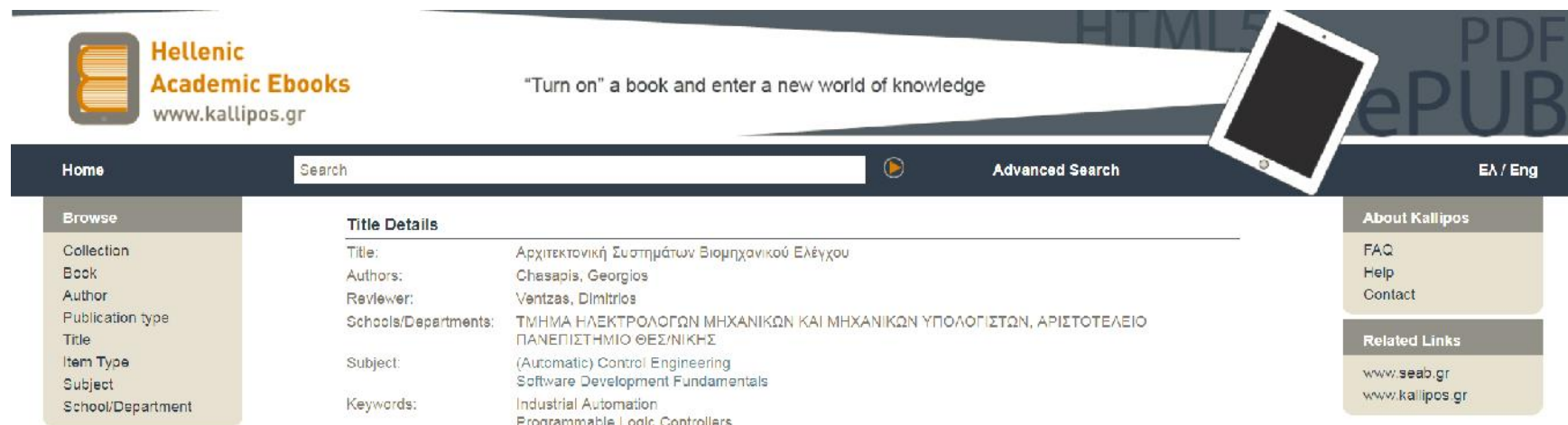
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Distinguished Editorial Member	Science Publishing Group, Science Journal of Circuits, Systems and Signal Processing	Username: editorialboard_dventzas@uth.gr http://www.sciencepublishinggroup.com/journal/archive.aspx?journalid=136&issueid=1

Συμμετοχή σε ερευνητικά εργαστήρια άλλων ΑΕΙ της ημεδαπής και αλλοδαπής

Ο Καθηγητής **Βέντζας Δημήτριος** έχει συμμετάσχει σαν Ερευνητής και σαν Διευθυντής σε Ερευνητικά Εργαστήρια:

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CO₂ 循环压缩机的防喘振控制方案

彭海滨

(中国寰球工程公司, 北京 100028)

摘要: 在 EO/EG 装置中, 循环气压缩机是用来传送来自缓冲罐中的 CO₂。CO₂ 作为 EO 反应的副产品, 由于产量比较大, 在上游由碳酸盐溶液进行吸收, 如果压力调控不好, 压缩机就会发生喘振, 甚至导致上游碳酸盐液体倒抽, 进而对设备及反应造成损伤。介绍了应用压缩机防喘振功能的控制方案, 仔细分析喘振发生机理以及各个控制步骤, 把压缩机喘振联锁控制停车减少到尽可能小, 对设备及整个管网的保护提供了保障。

关键词: 离心式压缩机; 防喘振控制; 压力限制; 差压流量; 联锁停车

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The Anti-surge Control Scheme of the CO₂ Recycle Compressor

Peng Haibin

(China Huanqiu Contracting & Eng. Co., Beijing, 100028, China)

Abstract: In the EO/EG plant, CO₂ gas in the buffer tank is transferred by the CO₂ cycle gas compressor. The CO₂ is a by-product in EG reaction, and is absorbed by carbonate solution, if the pressure is not controlled correctly, the surge will be happened even cause carbonate solution flow opposite, and even damage equipments. The control scheme for compressor anti-surge is introduced. The mechanics to happen surge and control steps are analyzed carefully, to reduce compression interlock shutdown as less as possible to provide protection for equipments and entire pipeline network.

Keywords: centrifugal compressor; anti-surge control; pressure limit; differential pressure flow; interlock shutdown

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NMF based dictionary learning for automatic transcription of polyphonic piano music	Costantini, G., Todisco, M., Perfetti, R.	2013		WSEAS Transactions on Signal Processing
State dependent Riccati equation based filtering and control of a magnetorheological fluid brake	Brancati, R., Russo, R., Terzo, M.	2013		WSEAS Transactions on Systems
Air defense missile detonation delay control based on FPGA/DSP	Zhang, L.-Z., Wu, P.-L., Zhang, X.-Y.	2013		WSEAS Transactions on Systems
Algorytmy dwustawnej regulacji temperatury walca stalowego z zastosowaniem ruchomych wzbudnik#243;w [On-off control algorithms for temperature control of steel cylinder with moving inductors]	Fraczyk, A.	2013		Przegląd Elektrotechniczny

Adaptive Binarization for Degraded Document Images Full Text Sign-In or Purchase	Landu Jiang ; Sch. of Inf. Security Eng., Shanghai Jiao Tong Univ., Shanghai, China ; Kai Chen ; Shibo Yan ; Yi Zhou	19-20 Dec. 2009 Page(s): 1 - 4	IEEE Ntogas Nikolaos , Ventzas Dimitrios, A BINARIZATION method FOR HISTORICAL MANUSCRIPTS,12th WSEAS International Conference on Communications, Heraklion, Greece, July 23-25, 2008.	International Conference on Information Engineering and Computer Science, 2009. ICIECS 2009. Print ISBN: 978-1-4244-4994-1 INSPEC Accession Number: 11032615 Conference Location : Wuhan DOI: 10.1109/ICIECS.2009.5362923
<p>Various types of degradations such as uneven illumination, shadows, low contrast, smears and heavy noise densities often make thresholding of the document images a difficult job. In this paper, we describe a new adaptive approach for degraded-document binarization. We use the dilation and erosion in gray-scale image processing; as a result get a new image in which the shadow levels and noise densities will be greatly reduced. After that we design the binarization technique combined the method which improved Niblack and the local thresholding using the small neighbourhood which influenced the mean value of the areas. The experimental result has shown that the proposed method performed as superior in comparison with other four contemporary and well-known adaptive binarization techniques on the document images with noises and complex backgrounds.</p>				

A two-step post processing method for ADC output compression and linearity improvement	Petrellis, N., Adam, G., Ventzas, D.	2011		Proceedings of the IASTED International Conference on Signal and Image Processing and Applications, SIPA 2011
Robust text binarization based on line-traversing for news video	Yen, S.-H., Chang, H.-W., Wang, C.-J., Wang, C.-W.	2011		Information Technology Journal
Crane load swing suppression control	Ventzas, D.E., Pantazaras, C.	2006		WSEAS Transactions on Systems
Document Surge avoidance using speed and valve methodologies controlled by PID, fuzzy and neural networks approaches	Mohammed, M.I., Noussier, Z.B., Abdel Maksoud, R.M., Amer, F.Z.	2011		Proceedings - ICCES'2011: 2011 International Conference on Computer Engineering and Systems

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Design and realization of short range defence radar target tracking system based on DSP/FPGA	Wu, P.-L., Wang, B.-B., Ji, C.-H.	2011		WSEAS Transactions on Systems
Application of a robotic arm to an automated multi-recording process	Tzanis, A., Delaportas, G., Fourlas, G.K.	2005		IWSSIP 2005 - Proceedings of 12th International Workshop on Systems, Signals and Image Processing

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Chapter headings and selected papers: Plenary Papers. Emerging control technologies: what does the future hold? (P.J. Antsaklis). Acceptance of optimal operation and control methods for greenhouse cultivation (G. van Straten). Intelligent Systems. Semi-stochastic complex neural networks (A.E. Kanarachos, K.T. Geramanis). Decision Support Systems. Assessment crop damages using space remote sensing ...

[George Ntakakis - Software Engineer - Microsoft | LinkedIn https://gr.linkedin.com/in/george-ntakakis-b46074a5.](#)

Prediction of the road slipperiness with the use of a smartphone or a

tablet. D.E. Vetzas, O.Iatrellis, G.Ntakakis. September 2014. Authors: George Ntakakis ...

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 Research Paper Volume-6, Issue-4 E-ISSN: 2347-2693 Evaluation of local thresholding techniques in Palm-leaf Manuscript images A. Lenin Fred*1 , S.N. Kumar2 , Ajay Kumar H3 , Ashy V Daniel4 , W. Abisha5 1 School of CSE, Mar Ephraem College of Engineering and Technology, Marthandam, India 2 Sathyabama Institute of Science and Technology, Chennai, India 3 School of ECE, Mar Ephraem College of Engineering and Technology, Marthandam, India 4 School of CSE, Mar Ephraem College of Engineering and Technology, Marthandam, India 5 School of ECE, Mar Ephraem College of Engineering and Technology, Marthandam, India, International Journal of Computer Sciences and Engineering Vol.6(4), Apr 2018, E-ISSN: 2347-2693
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 Non Algebraic Techniques for Digital Processing of Historic Painting Research Documentation Magdalena Stoyanova1 , Diego C. Stoyanov2 , Lilia Pavlova3 1 Ca' Foscari University, Centro Interdisciplinare di Studi Balcanici ed Internazionali, Venice, Italy 2 University of Padova, Faculty of Engineering, Padova, Italy 3 New Bulgarian University, Sofia, Bulgaria mgstoyanova@hotmail.it
http://dipp.math.bas.bg/images/2018/121-132_12_22-fDiPP2018-13.pdf

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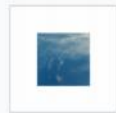
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ΑΚΟΛΟΥΘΕΙΤΕ

Professor of Control Systems and Signals (Industrial & Biomedical)
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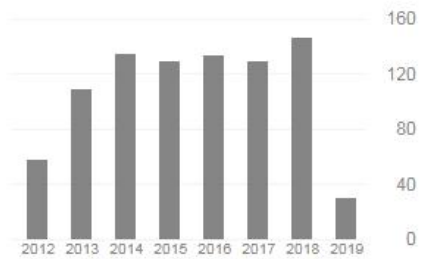
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Papers - Publications

Vehicle's License Plate Recognition System based on a Neural Network Radon Transform Method

Ventzas D, Karras, D, Adam G, Soutlis G.
 The 1st Virtual International Conference on Advanced Research in Scientific Areas (ARSA-2012) Slovakia, December 3 - 7, 2012
<http://www.arsa-conf.com/archive/?q=2012-ARSA-368::2>
<http://www.arsa-conf.com/archive/?q=2012...Information%20Technology:-1:0:1.4>
<http://www.arsa-conf.com/about-conference/>

Abstract - In LPR (License Plate Recognition) we identify vehicles by image-processing of their license plates for traffic control. The paper proposes a system (LPRS), capable of recognizing a car license plate number. The system includes Image Acquisition, Licence Plate Location performance, Character Isolation and Character Recognition. Digits discrimination is performed by applying a hierarchical cluster analysis on the labels objects, allowing the identification from a variable distance from target cars, while digits recognition is performed by a feed forward back propagation neural network, trained with the four angle Radon transform of sample letters and numbers.
Keywords: Traffic control, License Plate Recognition, Radon transform, Neural network.

FPGA design of a camera control system for road traffic monitoring

George K. Adam, Georgia Garani, Dimitrios Ventzas
 Department of Computer Science and Engineering
 Technological Educational Institute of Thessaly
 41110 Larissa, Greece

TRAFFIC MONITORING of an AGRICULTURAL TRAFFIC CROSS-ROAD by IMAGE and VIDEO PROCESSING TECHNIQUES

Ventzas, D¹, Panagiotidi, E, Balabekou I, Vagelas J¹, Zavrakas G¹, Adam, G¹

¹TEI of Larissa, Dpt of Informatics and Telecommunications, e-mail: ventzas@telar.gr

Abstract
 Image processing techniques are used in traffic monitoring and control for better environment understanding. We expanded these techniques to agricultural cross roads that exist in critical agricultural activities areas and agricultural industries traffic monitoring. These techniques involve, car/vehicles counting, long vehicles identifications, agricultural vehicles recognition, traffic accident, parking conditions monitoring, geometrical measurements, texture analysis, overloading, driving behaviour, etc. We use image and video processing techniques such as color processing, image edge detection, image registration, geometric transformations, morphological image



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<http://opensigle.inist.fr/handle/10068/626619>

http://scholar.google.gr/scholar?hl=el&lr=&cites=7933775076689910571&um=1&ie=UTF-8&ei=-X2zS-CYMsqJ4Qax6qm2Ag&sa=X&oi=science_links&resnum=10&ct=sl-citedby&ved=0CCsQzqlwCTqo

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