**Curriculum Vitae: Drosos Christos**

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**SURNAME:** DROSOS

**NAME:** CHRISTOS

- *BSc on Automation and Control System Engineering*
- *MSc on Informatics*
- *Phd on Informatics at University of Piraeus*
- *PostDoc on Informatics at University of Thessaly*

**ADDRESS:** ATHENS, GREECE

**PHONE NUMBER:** +306940986503

**E-MAIL:** drososx@gmail.com

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## WORK EXPERIENCE:

- **2018  -** University of West Attika, Dept. of Industrial Design & Production, Laboratory Teaching Personnel

- **2003 – 2018:**  Automation Department at Technical Education Institute of Piraeus as Lecturer in the courses:
    - Electrical & Electronics Measurements,
    - Management Information Systems
    - Data Acquisition Systems (Labview), Tools for Network Optimization (Anritsu)".
    - Automatic Control Systems II
    - Programming I (Python)
    - Programming 3 (C++)
    - Internet Protocols

- **2003 – 2004:** Institute of Professional Training (I.E.K.) of Heliopolis, teacher of "Automatic Control Systems".

- **2000 – 2002:** Worked at the Central Union of Greek Chambers as wireless network administrator.

- **1998 – 2000:** Responsible for wireless network security at the personal Office of the Minister of National Defense, Greece.

- **1995 – 2003:** Commercial & Industrial Chamber of Piraeus, IT expert and wireless network engineer.

- **1995-2003:** Laboratorial Collaborator at Automation Dpt., Technical Education Institute of Piraeus in the fields of "mobile networks", "CAD/CAM", "Automatic Control Systems" and "Electrical & Electronics Measurements".

- **1993 – 1994:** Vodafone Greece (Panafon), GSM Radio Network Optimization department.

- **1993:** AEG – HELLAS, Department of Power Electronics.

## LANGUAGES:

- Greek (mother tongue)
- English (fluent)
- Portuguese (simple conversation)

## STUDIES:

- **2018:** University of Thessaly, Postdoc on Informatics
"The use of intelligent, heuristic and meta heuristic algorithms to the problem of timing optimization of light signals"
- **2016:** University of Piraeus, Phd on Informatics
**"Optimized Heuristic Implementations in AI Multi-Agent Systems"**

- **2011:** University of Piraeus, MSc on Informatics
- **1994:** Technological Institute Of Piraeus, BSc on Automatic Control Systems
- **1988:** High School Degree

## SCIENTIFIC PROJECTS:

- Analysing and manufacturing leading circuits for linear motor.

- Development of Educational Packet in Telecommunicating Electronics.

- Design & implementation of wireless networks.

## RESEARCH ACTIVITIES:

- 1/11 / 2018-30 / 4/2019: "Design and development of Automatic Transmission system of construction machinery (SG-BOX)" "with the object of research, design and development of software for microcontrollers & electronic circuits

- 6/10 / 2016-16 / 2/2018 University of Thessaly, Department of Informatics, postdoctoral research (PostDoc) in the use of intelligent, heuristic and meteorological algorithms to solve the problem of optimizing the scheduling of traffic lights.

- 5/12 / 2014-31 / 8/2015: Subproject_01, development of digital courses, support of an institutional platform and other actions of the operations entitled "NSRF 2007-2013 OPEN ACADEMIC COURSES TEI PIRAEUS"

- 2013 ARCHIMEDES III, on the subject of the contribution to the study, design and development of the electronic system, with emphasis on the determination of the electrical characteristics of the electronic systems, the implementation of transmission algorithms and the control of telecommunication circuits

- 1/9 / 2013-30 / 9/2015 Central Action of TEI PIRAEUS of the act entitled NSRF 2007-2013 ARCHIMEDES III - STRENGTHENING OF RESEARCH TEAMS IN TEI PIRAEUS

- 1/1 / 2011-31 / 12/2011: Scientific support of Young Farmers by NPDD of Higher Education, with the object of building a website for the association of young farmers

- Archimedes research program: "Integrated System of Neurofuzzy Systems, Grey Models and Genetic Algorithms for Metrological Parameters Estimation".

- Archimedes research program "New materials of polymeric uterine, emphasized on applications of electrostatic charge".

## CONGRESS – PAPERS

- 2021: DIGITAL STORYTELLING AS A TEACHING METHOD IN ADULT EDUCATION - THE CORRELATION BETWEEN ITS EFFECTIVENESS AND WORKING MEMORY, Konstantina Karanasiou, Christos Drosos, Dimitris Tseles, Dimitris Piromalis, Nikos Tsotsolas. European Journal of Education Studies ISSN: 2501 – 1111 ISSN-L: 2501 – 1111 Available on-line at: www.oapub.org/edu

- 2021: Paraskevi Zacharia, Christos Drosos, Dimitrios Piromalis, Michail Papoutsidakis, The Vehicle Routing Problem with Fuzzy Payloads considering Fuel Consumption, Applied Artificial Intelligence https://doi.org/10.1080/08839514.2021.1992138

- 2021: Ilias Kalathas, Michail Papoutsidakis, Christos Drosos, Business Intelligence and Machine Learning Methods for Predictive Maintenance in Greek railways, Scientific Research Open Journal of Applied Sciences, Vol.11 No.1A, June 2021

- 2020: E. Theocharis, M. Papoutsidakis, A. Sort, C. Drosos, Experimentation on the Electromechanical Behavior of Automation Safety Buttons Applied to an Industrial PLC. WSEAS Transactions on Systems and Control, ISSN / E-ISSN: 1991-8763 / 2224-2856, Volume 15, 2020, Art. #74, pp. 733-742

- 2020: Ilias Kalathas, Michail Papoutsidakis, Chistos Drosos, Optimization of the Procedures for Checking the Functionality of the Greek Railways: Data Mining and Machine Learning Approach to Predict Passenger Train Immobilization, ASTESJ Advances in Science, Technology and Engineering Systems Journal Vol. 5, No. 4, 287-295 (2020) ISSN: 2415-6698

- 2019: Eleni Gialinou , Christos Drosos, Michail Papoutsidakis, K. Kalovrektis, Study and Analysis of a "Disaster Recovery" Information System using Cloud-computing Technology, International Journal of Computer Applications (0975 – 8887) Volume 177 – No. 23, December 2019 (http://www.ijcaonline.org/archives/volume177/number23/31034-201991967 )

- 2019: Eugenia Arvanitidi, Christos Drosos, Eystathios Theocharis, Michail Papoutsidakis, 3D Printing and Education,  International Journal of Computer Applications (0975 – 8887) Volume 177 – No. 24, December 2019 (http://www.ijcaonline.org/archives/volume177/number24/31049-2019919711

- 2019: Kavetsos Dimitris, Drosos Christos, Piromalis Dimitris, Study, Design and Implementation of a Supermarket Trolley with Minimal Motor-driven Physical Propulsion to Drive It, International Journal of Computer Applications (0975 – 8887) Volume 177 – No. 25, December 2019 (http://www.ijcaonline.org/archives/volume177/number25/31050-2019919669)

- 2019: Eugenia Arvanitidi, Christos Drosos, Eystathios Theocharis, Michail Papoutsidakis, 3D Printing and Education,  International Journal of Computer Applications (0975 – 8887) Volume 177 – No. 24, December 2019 (http://www.ijcaonline.org/archives/volume177/number24/31049-2019919711)

- 2019: Eleni Gialinou , Christos Drosos, Michail Papoutsidakis, K. Kalovrektis, Study and Analysis of a "Disaster Recovery" Information System using Cloud-computing Technology, International Journal of Computer Applications (0975 – 8887) Volume 177 – No. 23, December 2019 (http://www.ijcaonline.org/archives/volume177/number23/31034-201991967 )

- 2019:  E. Theocharis, M. Papoutsidakis, C. Drosos, G. Chamilothoris, International Journal of Computer Applications (Volume 178 - Number 24) "Safety Standards in Industrial Applications: A Requirement for Fail-Safe Systems" https://www.ijcaonline.org/archives/volume178/number24/30685-30685-2019919040

- 2018: M.Papoutsidakis,, E.Symeonaki, D.Piromalis, C.Drosos, The Use of Wireless Sensors Network for Supporting Human Daily Activities,  International Journal of Engineering Science Invention (IJESI) ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726 www.ijesi.org ||Volume 7 Issue 10 Ver V || Oct 2018 || PP 21-26. October 2018

- 2018:  D.Kasinas,  C.Drosos, D.Tseles ,  Study and Design of Risk Assessment Procedure and Basic Penetration Tests before the Production Environment, International Journal of Engineering Science Invention (IJESI) ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726 www.ijesi.org ||Volume 7 Issue 10 Ver V || Oct 2018 || PP 36-47. October 2018

- 2018:  G.Karamanis, C.Drosos, M.Papoutsidakis1,D.Tseles, Implementation of an Automated System for Controlling and Monitoring a Hydroponic Greenhouse, International Journal of Engineering Science Invention (IJESI) ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726 www.ijesi.org ||Volume 7 Issue 10 Ver V || Oct 2018 || PP 27-35. 2018

- 2018:  Louros, M.Papoutsidakis, A.Chatzopoulos , C.Drosos,  Design of an Innovative Flight Controller for Quadcopter Robust Handlin, Journal of Multidisciplinary Engineering Science and Technology (JMEST) ISSN: 2458-9403 Vol. 5 Issue 10, October  2018,

- 2018:  M.Papoutsidakis , A.Chatzopoulos , C.Drosos,  D.Tseles, Advanced Remote Control and Thermal Zones Design of a Modern Smart Home,  Journal of Multidisciplinary Engineering Science and Technology (JMEST) ISSN: 2458-9403 Vol. 5 Issue 10, October – 2018,

- 2018: M.Papoutsidakis, A.Chatzopoulos, C.Drosos, D.Piromalis,  A System for Distance Control and GPS Mapping for Automotive Applications, Journal of Multidisciplinary Engineering Science and Technology (JMEST) ISSN: 2458-9403 Vol. 5 Issue 10, October – 2018

- 2018:  M. Papoutsidakis, A. Chatzopουλος, C. Drosos, K. Kalovrextis , An Arduino Family Controller and its Interactions via an Intelligent Interface, International Journal of Computer Applications (0975 – 8887) Volume 179 – No.30, March 2018

- 2018: International Journal of Computer Applications (0975 – 8887) Volume 179 – No.30, March 2018. "Comparative Study of Control Methods's Application for Pneumatic System in Simulation Environment" Authors: E. Ntimeri Piraeus University of Applied Sciences, Dept. of Automation Engineering. Dr. Christos Drosos, Piraeus University of Applied Science, Dept. of Automation Engineering . D. Tseles Professor Deputy President P. Ralli & Thivon 250 12244 Aegaleo, Athens

- 2018 : International Journal of Computer Applications (0975 – 8887) Volume 179 – No.30, March 2018, "Linear Position Sensors – A Brief Guide of Use of the Most Common Types" Authors: M. Papoutsidakis Dept. of Automation Eng. Piraeus University  Of Applied Sciences, Athens, Greece. A. Chatzopoulos Dept. of Automation Eng. Piraeus University Of Applied Sciences, Athens, Greece. C. Drosos Dept. of Computer Science University of Thessaly, Lamia, Greece.

- 2018: International Journal of Engineering Applied Sciences and Technology, 2018 Vol. 2, Issue 10, ISSN No. 2455-2143, Pages 1-5 Published Online February 2018 in IJEAST (http://www.ijeast.com) "THE BIOMASS AS AN ENERGY SOURCE AND ITS APPLICATION BENEFITS" Authors: M. Papoutsidakis Dept. of Automation Engineering, Piraeus University of Applied Sciences, Athens, Greece. C. Drosos Dept. of Automation Engineering, Piraeus University of Applied Sciences, Athens, Greece. E. Symeonaki Dept. of Automation Engineering, Piraeus University of Applied Sciences, Athens, Greece. D. Tseles Dept. of Automation Engineering, Piraeus University of Applied Sciences, Athens, Greece

- 2017:   International Journal of Engineering Applied Sciences and Technology, Vol. 2, Issue 8, ISSN No. 2455-2143, Pages 29-33 Published Online December 2017 in IJEAST

(http://www.ijeast.com) "SENSORS AND µCONTROLLERS IN THE USE OF WEARABLES FOR RECORDING BIOMETRIC DATA" Authors: M. Papoutsidakis Dept. of Automation Engineering, PUAS, Athens, Greece . Kalovrextis Dept. of Informatics University of Thessaly Lamia, Greece.C. Drosos Dept. of Automation Engineering, PUAS, Athens, Greece. G.Stamoulis Dept. of Informatics  University of Thessaly Lamia, Greece

- 2017: Era-12 "The Use of Heuristic and Meta-Heuristic Algorithms to Solve the Optimization Problem of the Timing of Light Signals" Authors: Ch.Drosos, G. Stamoulis, D. Tseles and M. Papoutsidakis http://era-conference.puas.gr/

- 2017: International Journal of Computer Applications (0975 – 8887) Volume 176 – No.8, October 2017, "A Brief Guide for the Continuously Evolving µController Raspberry PI Mod.B" M. Papoutsidakis Dept. of Automation Engineering PUAS, Athens, Greece , A. Chatzopoulos Dept. of Automation Engineering PUAS, Athens, Greece, K. Kalovrektis Dept. of Informatics University of Thessaly Lamia, Greece, C. Drosos Dept. of Automation Engineering PUAS, Athens, Greece
  http://www.ijcaonline.org/archives/volume176/number8/28577-28577-2017915651

- 2017:  International Journal of Computer Applications (0975 – 8887), Volume 167 – No.12, June 2017, "Design of an Autonomous Robotic Vehicle for Area Mapping and Remote Monitoring" M. Papoutsidakis Dept. of Automation Engineering PUAS, Athens, Greece, K. Kalovrektis Dept. of Informatics University of Thessaly Lamia, Greece,C. Drosos Dept. of Automation Engineering PUAS, Athens, Greece G. Stamoulis Dept. of Informatics University of Thessaly Lamia, Greece.
  http://www.ijcaonline.org/archives/volume167/number12/27825-2017914496

- 2017: International Journal of Computer Applications (0975 – 8887) Volume 167 – No.12, June 2017, "Intelligent Design and Algorithms to Control a Stereoscopic Camera on a Robotic Workspace" M. Papoutsidakis Dept. of Automation Engineering PUAS, Athens, Greece,  K. Kalovrektis Dept. of Informatics University of Thessaly Lamia, Greece,C. Drosos Dept. of Automation Engineering PUAS, Athens, Greece G. Stamoulis Dept. of Informatics University of Thessaly Lamia, Greece.
  http://www.ijcaonline.org/archives/volume167/number12/27824-2017914495


- 2017: Netties 2017 Conference, Piraeus University of  Applied Science May 2017, "Shipping Telemetry Systems", Stavroula Chela, Christos Drosos, George Stamoulis, Konstantinos Kalovrektis

- 2017: Netties 2017 Conference, Piraeus University of Applied Scince May 2017, "A Study of Design and Implementation of a Telematics System for Control and Data Transfer for Road Transportations" , Papadopoulos P. – Smyrnaiou G. – Drosos C. – Tseles D.

- 2016 International Journal of Engineering Applied Sciences and Technology, 2
  Vol. 1, Issue 9, ISSN No. 2455-2143, Pages 20-25 Published Online July – August 2016 in IJEAST (http://www.ijeast.com) . "AN EVALUATION OF INFORMATION POINTS FOR CIVILIANS BASED ON TELEMATICS AND AUTOMATED DATA TRANSFER" D. Zareifis, M.Papoutsidakis, Ch. Drosos, D. Tseles

- 2016: IJCA (International Journal of Computer Applications) DL July 16, 2016., Foundation of Computer Science, New York, USA, "Solution of Economic load dispatch (ELD) Problem by Path Relinking (PR) Algorithm" Paper Reference ID: *2016910522. Christos Drosos, Ioannis Trichas and Aristidis Vlachos
  http://www.ijcaonline.org/archives/volume145/number3/25261-25261-2016910522

- 2014: International Scientific Conference, eRA-9, Aigaleo Greece: "Improved Microcontroller based Data Acquisition System for human body physiological and environmental parameters measurement" Ch.Drosos, Aliki Dagli-Kapoutsi, Dimitrios Piromalis, D.Tseles

- 2014: International Scientific Conference, eRA-9, Aigaleo Greece: "Solving a ship dispatching problem with PSO algorithm" Ch.Drosos, I.Trichas, A.Vlachos, G.Nikolaou, D.Tseles

- 2014: 3rd World Conference on Technology and Engineering Education, Aigaleo Greece: "An Integrated Course in Data Acquisition & Control" Ch.Drosos, A. Dagli - Kapoutsi, D. Piromalis, D. Tseles

- 2014: Fifth International Conference on Information, Intelligence, Systems and Applications IISA 2014, Chania Crete: "A comparative study of metaheuristic algorithms for Dartboard Design" Ioannis Trichas, Christos Drosos, Aristidis Vlachos.

- 2013: International Scientific Conference, eRA-7, Aigaleo Greece: "Ant Colony Optimization (ACO):The effect of Varying of Levels of Initial Pheromone Quantities on the Objective Function for a Vehicle Scheduling Problem (VSP)", Ch.Drosos, Th. Panayiotopoulos, G.Trichas, Gr. Nikolaou

- 2012: International Scientific Conference, eRA-6, Aigaleo Greece: *"Arduino electronics prototyping platform: the use as an Open source wireless data logger for Museum*

*Infrastructures"* Drosos Christos , Maniatis Nikolaos, Kanellopoulos Panagiotis, Prof Tseles Dimitris.

- 2011: International Scientific Conference, eRA-6, Aigaleo Greece: *"Implementation of a dynamic site for agricultural unions"* Automation Dpt., Technical Education Institute of Pireaus, Christos Drosos, Emanouil Sofianopoulos, Nikos Alafodimos, Dimitris Piromalis, Dr. Tseles Dimitris.

- 2008: International Scientific Conference, eRA-3, Aigina Greece*: "An IEEE 802.15.4 Transceivers Characteristics Evaluation"*,  Automation Dpt., Technical Education Institute of Pireaus, "D.Piromalis, I. Zisos, A. Charitopoulos, A. Tzerachoglou, D. Tseles, N. Vasilakis, Ch. Drosos."

## SEMINARS- SPECIALISATION PROGRAMS:

- Preliminary Education program of the Institute of Preliminary Training in the National Centre of Public Administration.

- Seminar with theme: *"Excavation of Knowledge from Databases"*, in the frames of activities of Human Network of Distribution & Usage of New Technologies (HELDiNET), which took place at the Aristotle University of Thessalonica (31/10/2000 – 02/11/2000).