CURRICULUM VITAE

KONSTANTINOS G. ARVANITIS
Professor (Full) of "Automation in Agriculture"
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PERSONAL INFORMATION:

Konstantinos G. Arvanitis was born in Lamia, Greece, in 09/15/1963. He is married and he has three children. His home address is: 64 Korai Str., 17122, Nea Smyrni, Athens, Greece.

EDUCATION:

Bachelor Degree: National Technical University of Athens (N.T.U.A.), Dept. of Electrical & Computer Engg. (1986).
Ph.D. Degree: N.T.U.A., Dept. of Electrical and Computer Engg., (1994). Specialization: Automatic Control, Mathematical Systems Theory, Computer Control Systems.

SCHOLARSHIPS:

Postgraduate Scholar of the Greek State Scholarships Foundation with specialization in Applied Mathematics. The scholarship was assigned after successful written examination in the following topics: "Mathematical Analysis", "Differential Equations", "Probability and Statistics", "International Technical Terminology".

COMPUTER SKILLS:

Well versed in the Windows Operation System (versions XP, 7, 8.1, 10), in MS Office (MS Word, MS Excel, MS Power Point, MS Outlook, versions 2007, 2010, 2013) and in several Internet browsers (Internet Explorer, Google Chrome, Mozilla Firefox). Well versed in multi-paradigm numerical computing environments, such as: Matlab/Simulink (ver. 2013), electronic systems design software Altium Designer (ver. 2014), SCADA systems design platform and development environment LabVIEW (ver. 2014). Adequate knowledge of programming languages: Visual Basic, C/C++, Visual C, PHP, Arduino-Ardublock, Python.

SPOKEN AND WRITTEN LANGUAGES

Greek (Fluent, Native Language), English (Fluent), French (Moderate, Certificat de la langue française, Institut Français d'Athènes, 1978).

PROFESSIONAL EXPERIENCE:

1989-1994: Research Assistant, N.T.U.A., Dept of Electrical & Computer Engg., Control Systems Laboratory.
1989-1993: Research Assistant, Chair of Electronics, Hellenic Naval Academy (H.N.A.).
1993-1999: Head of the Technical Services Department, Ministry of Justice, Greek Council of State.
1994-1995: Adjunct Professor, Dept. of Electronics, School of Pedagogical & Technological Education (S.P.T.E.).
1994-1996: Visiting Professor, Chair of Electronics, H.N.A..
1996-1998: Visiting Professor, Chair of Electrical Technology, H.N.A..
1996-1997: Visiting Professor, Dept. of Electrical Engg., Techonological Educational Institute (T.E.I.) of Piraeus.

1997-1998: Research and Development Engineer, "New Educational Technology-I. Vrontakis & Co".
1998-1999: Visiting Professor, Dept. of Automation Engg., T.E.I. of Piraeus.
1998-1999: Visiting Professor, Dept. of Electrical & Computer Engg., N.T.U.A.
1998-1999: Visiting Professor, Department of Natural Resources Manage ment and Agricultural Engineering, Agricultural University of Athens (A.U.A.).
1999-2000: Lecturer, Aristotle University of Thessaloniki, School of Agricultural Sciences, Dept. of Hydraulics, Soil Science and Agricultural Engg., Laboratory of Agricultural Engineering.
2000-2001: Visiting Professor, Dept. of Automation Engg., T.E.I. of Thessaloniki.
2001-2009: Visiting Professor, Dept. of Automation Engg., T.E.I. of Piraeus.
2001-: Lecturer (2001-2004) / Assistant Professor (2005-2011) / Associate Professor (2011-2017) / Professor (2017-present), Agricultural University of Athens, School of Environment and Agricultural Engineering, Department. of Natural Resources Management and Agricultural Engineerig, Section of Farm Structures and Farm Machinery, Laboratory of Farm Machine Systems.

TEACHING EXPERIENCE:

Since 1989 until 1999, Dr. K.G.Arvanitis offered various under-graduate (UG) and post-graduate (PG) courses as a Visiting Professor in H.N.A., in S.P.T.E, Dept. of Electronics, in T.E.I. of Piraeus, Dept. of Electrical Engg. and Dept. of Automation Engg., in N.T.U.A, Dept. of Electrical & Computer Engg. and in A.U.A., Dept. of Natural Resources Management & Agricultural Engg.. During his service in the Aristotle University of Thesaloniki, School of Agriculture, Forestry and Natural Environment, Dept. of Agriculture, he taught *General Mathematics I (UG), Electrical Drives and Pumps (UG), Exploitation of Animal Buildings and Waste Treatment (UG), Greenhouses (UG), Quantitative Data Analysis (PG).* After joining the Department of Natural Resources Management and Agricultural Engineering of A.U.A, he offered (and continues to offer) various courses in *Electrical Technology & Electric Machines (UG), Mechanics III (UG), Sensors and Measurements (UG), Farm Machinery II-Pumps and Electrical Drives (UG), Automatic Process Control (UG), Electronics & Microprocessors (UG), Measurement & Automatic Control Systems in the Food Industry (UG), Applications of Information Technology in Agriculture (UG), Optimization Techniques and Computational Intelligence in Agriculture (UG), Mechatronics & Robotics in Agriculture (UG), Applied Control and Advanced Automation (UG), Electromechanical Equipment of Agricultural Intallations (UG), Hydroponics Installations (UG), Theory & Application of Electromechanical Equipment and Automation in Irrigation (PG), Environmental and Process Control (PG), Advanced Electrical Technology & Power Electronics (PG), Advanced Analytic Measurements (PG), Design of Greenhouse Electromechanical Equipment (PG), Precision Agriculture (PG).*

ADVISORY AND SUPERVISORY EXPERIENCE:

Dr. K.G.Arvantis served as supervisor or/and member of the Advisory/Examination Boards: (a) of over 60 Graduation Theses (55 completed), (b) 22 Master Theses (20 completed), (c) 15 Ph.D. Theses (7 completed).

EVALUATION EXPERIENCE:

Dr. K.G.Arvantis served as a member of more than 60 multi-member Electoral Committees for the election/promotion of academic staff members in various Greek Universities. He also served as an eva-luator of the scientific work of 5 academic staff members in various Greek Universities and Research Insti-tutes, and as an evaluator of research proposals. Recently, he served as an academic member of commit-tees of the Supreme Council for Civil Personnel Selection, for positions demanding advanced skills..

ADMINISTRATIVE EXPERIENCE:

- Member of the Coordination Committe of the Postgraduate Education Program of the Dept. of Natural Resources Management & Agricultural Engg. of A.U.A. (September 2009-present).
- Member (May 2008 - June 2011, 2020-2022) and Head (June 2011-2017) of the Technical Council of A.U.A.
- Coordinator and Planning Manager of the Technical Services Department of A.U.A. (March 2011 – 2014).
- Member of the Internal Evaluation Committee of the Dept. of Natural Resources Management & Agricultural Engg. of A.U.A. (January 2013 – 2019).
- Member of the Management Committee of the project "Exploitation of the Scientific Research Results produced by A.U.A." (February 2014-present).
- Head/Deputy Head of the Section of Farm Structures and Farm Machinery, of the Dept. of Natural Resources Management & Agricultural Engg. of A.U.A. (June 2013-2016, 2018-2019 / 2016–2017).

PARTICIPATION IN RESEARCH AND DEVELOPMENT PROJECTS:

1989-1991: N.T.U.A., Dept. of Electrical & Computer Engg.: *"Development of a Regulator Design Software System for Performance Improvement of Industrial Processes"*, Project funded by the General Secretariat of Research and Technology of the Greek Ministry of Development.

1996-1998: N.T.U.A, Dept. of Electrical & Computer Engg.: *"Sampling Theory, Study of Structural Properties and Control of Sampled-Data System Models"*, Project funded by the General Secretariat of Research and Technology of the Greek Ministry of Development.

1997-1998: N.T.U.A., Dept. of Electrical & Computer Engg.: *"Feasibility Study and Implementation of an Educational System of Advanced Control Techniques in Control Systems Laboratory of N.T.U.A"*, Project funded by the Greek Ministry of Education.

1998-1999: A.U.A, Dept. of Natural Resources Management & Agricultural Engg.: *"Electromechanical Equipment of the Botanic Garden of Petroupolis"* Project funded by the Greek Ministry of Land Planning, Environment and Public Works and assigned to "Amyntas S.A.-Construction Company".

1999-2001: A.U.A., Dept. of Natural Resources Management & Agricultural Engg.: *"Management and Control for Quality in Greenhouses-Demonstration project"* (MACQU-D) (www.aua.gr/ns/project/ macqu_d/macqud.htm). Project funded by the European Union under the grant FAIR6-CT98-4310.

2000-2003: A.U.A, Dept. of Natural Resources Management & Agricultural Engg.: *"Sustainable Water Use in Protected Mediterranean Horticulture"* (HORTIMED) (www.hortimed.org). Project funded by the European Union under the grant ICA3-1999-00009.

2001-2003: Agricultural University of Athens, Department of Natural Resources Management and Agricultural Engineering: *"Reforming the Post-Graduate Program of the Department of Natural Resources Management and Agricultural Engineering".* Training and development project funded by the Hellenic Ministry of Education, within the ΕΠΕΑΕΚ II framework.

2002-2003: A.U.A., Dept. of Natural Resources Management & Agricultural Engg.: *"Business Plan for the Development of GEOMATIONS S.A., a Spin-Off Company of A.U.A.".* Project funded by the General Secretariat of Research and Technology of the Greek Ministry of Development, under the action "Praxe-Phase A".

2003-2006: A.U.A., Dept. of Natural Resources Management & Agricultural Engg.: *"Undergraduate Curriculum Reformation of the Dept. of Natural Resources Management & Agricultural Engg.".* Project under the EPEAEK II framework. Responsible for: <u>Action 2.2</u>: *Development of new teaching and examination ways. Multimedia, Case studies, laboratory exercises, computer practice,* and <u>Action 2.4</u>: *Introduction of digital material in networks and portals.*

2004-2006: T.E.I. of Kavala, Dept. of Informatics: *"Development and Exploitation of Modern Automatic Control Methods in Electric Power Generation Systems".* Project funded by the Greek Ministry of Education under "Archemides-Support of Research Groups in the Technological Education Institutes" program.

2004-2006: T.E.I. of Crete, Dept. of Civil Engg.: *"Application of Automatic Control Theory in Civil and Agricultural Engineering Structures".* Project funded by the Greek Ministry of Education under "Archemides-Support of Research Groups in the Technological Education Institutes" program.

2004-2006: T.E.I. of Piraeus, Dept. of Automation Engg.: *"Intelligent Robotic System for Allergy Diagnosis".* Project funded by the Greek Ministry of Education under "Archemides-Support of Research Groups in the Technological Education Institutes" program.

2004-2006: T.E.I. of Piraeus, Dept. of Automation Engg.: *"Integrated System of Neuro-Fuzzy Nets, Grey Models and Genetic Algorithms for the Prediction of Meteorological Parameters".* Project funded by the Greek Ministry of Education under "Archemides-Support of Research Groups in the Technological Education Institutes" program.

2004-2007: University of Athens (U.o.A.), Dept. of Mathematics: *"Robustness Analysis and Applications in the Control of Linear Singular Systems".* Project funded by the Greek Ministry of Education under "Heraklitos-Support of Basic Research" program.

2004-2007: U.o.A., Dept. of Mathematics: *"Parameter Identification and Controller/Dead-Time Compensator Tuning for Processes with Time-Delay, Unstable Dynamics or/and Inverse Response".* Project funded by the Greek Ministry of Education under "Pythagoras I- Support of Research Groups in the Greek Universities" program.

2004-2007: A.U.A., Dept. of Natural Resources Management & Agricultural Engg.: *"Integrated Intelligent Control of Aerial and Root Environment in Greenhouse Hydroponic Cultivations for Integrated Management Products".* Project funded by the Greek Ministry of Education under "Pythagoras I- Support of Research Groups in the Greek Universities" program.

2004-2007: A.U.A., Dept. of Natural Resources Management & Agricultural Engg.: *"Development of GEOMATIONS S.A., a Spin-Off Company of A.U.A.".* Development project funded the General Secretariat of Research and Technology of the Greek Ministry of Development, under the action "Praxe-Phase B".

2006-2010: GEOMATIONS S.A. (Spin-Off Company of A.U.A.): "*Farm Level Optimal Water Management: Assistant for Irrigation under Deficit (FLOW-AID)*" (www.flow-aid.wur.nl/UK/). Project funded by E.U. under 6th Framework European STREP project (FP6-2005-Global-4, PRIORITY II.3.5 under the call for Water in Agriculture, new systems and technologies for irrigation and drainage).

2011-2012: Agricultural University of Athens, Department of Natural Resources Management and Agricultural Engineering: *"Green Village – Aghios Georgios of Makrakomi Municipality»*. Research project with technical/economic study funded by the Makrakomi Municipality, Fthiotis, Central Greece Region.

2012-2015: Agricultural University of Athens, Department of Natural Resources Management and Agricultural Engineering: *«Practice of A.U.A. Students–Funding for the practice of A.U.A. Departments»*. Training and development project implemented in the frameworks of ESPA 2007-2013 and of the operational program «Education & Lifelong Learning», and funded by European Social Fund.

2012-2015: T.E.I. of Piraeus, Department of Electronics Engineering: *«Development of Open Source Plattform for Education and research in Wireless Sensor Networks»*. Research project funded by the Hellenic Ministry of education, within the action «Archimedes III», of the Operational Program "Education and Liflong learning".

2012-2015: T.E.I. of Piraeus: *«Information System for Sustainable Development».* Research Project funded by the General Secretariat of Research and Development, of the Greek Ministry of Education within the *«Archimedes III»* action of the Operational Program "Education and Liflong learning".

2012-2015: A.U.A., Dept. of Natural Resources Management & Agricultural Engg.: *«Direct Driven (Battery Less) Photovoltaic/Wind Turbine Reverse Osmosis Desalination Employing Computational Intelligence Techniques».* Research project funded by General Secretariat of Research and Technology of the Greek Ministry of Education under the *«Research Excellence I»* action.

2014-2015: A.U.A.: *«Intelligent Integrated Energy Management of Buildings and Installations based on Computational Intelligence Techniques and Implemented in Open Source hardware and Software Platform».* Research and development project funded by the Hellenic Ministry of Education, within the sub-action: «Innovation and Business – Exploitation of the research produced in the Agricultural University of Athens». of the action «PRAXE-Phase A'».

2014-2018: A.U.A.: *«Energy Autonomy of the Library Building and the Surrounding Area, including the Courts and the Main Street of Eastern Side of A.U.A.»*, Development project funded the Financing Mechanism of the European Economic Area 2009-2014.

2016-2018: A.U.A., Dept. of Natural Resources Management & Agricultural Engg.: «European Agricultural Knowledge and Innovation Systems (AKIS) Towards Innovation-Driven Research in Smart Farming Technology». Research Progect funded by EU under «H2020-EU.3.2.-SOCIETAL CHALLENGES-Food security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research, and the Bioeconomy» action.

MAIN RESEARCH INTERESTS:

Electrification and Automation in Agriculture, Advanced Process Control, Computer-Based Control and Industrial Automation, Wireless Sensor Networks, ICT and Artificial Intelligence Applications in Agriculture, Image Processing and Remote Sensing, Optimization Techniques nd Computstionsl Intelligence, Precision Farming, SCADA Systems, Decision Support Systems, Embedded and Cyper-Physical Systems. Energy Management and Control of Autonomous Micro-Grids, Desalination Installations and Elecric Vehicles, Internet of Things and Edge/Cloud Computing. Risk Management Assessment in the Context of Agriculture 4.0, Education 4.0 in the Context of Agriculture 4.0.

SCIENTIFIC PUBLICATIONS:

Dr. K.G.Arvanitis published until now **23** chapters in international scientific books, **110** articles in international refereed scientific journals (of which, **84** in journals included in Web of Science/SCI while **98** in Scopus), **153** papers in international refereed scientific conferences, **1** Chapter in adomestic scientific book and **27** papers in domestic scientific conferences.

MAIN ACHIEVEMENTS AND RECOGNITION:

During the period 2000-2017, Dr. K.G.Arvanitis was a member of the International Federation of Automatic Control (IFAC) Technical Committee on Control in Agriculture. He is, currently, a member of the Board of Directors of the World Scientific and Engineering Academy and Society (http://wseas.org/cms.action?id=2001). He is also a current member of the European Society of Agricultural Engineers (EurAgEng) and of the European Federation of National Association of Engineers (FEANI). He served (2009-2013) as a member of the Editorial Board of the international scientific journal *"Computers and Electronics in Agriculture"* (ISSN: 0168-1699, Elsevier Publishing Co.). He currently serves as: (i) an Associate Editor of the international scientific journal *"WSEAS Transactions on Advances in Engineering Education"* (Print ISSN: 1790-1979, e-ISSN: 2224-3410); (ii) a member of the Editorial Board of the

international scientific journal *"WSEAS Transactions on Systems and Control"* (ISSN: 1991-8763, http://wseas.org/wseas/cms.action?id=4073); (iii) a member of the Editorial Board of the international scientific journal *"Instruments"* (ISSN: 2410-390X, http://www.mdpi. com/journal/instruments); (iv) a member of the Editorial Board of the international scientific journal *"Inventions"* (ISSN: 2411-5134, http://www.mdpi.com/journal/inventions); (v) a member of the Editorial Board of the international scientific journal "*Automation, Control and Intelligent Systems"* (Print ISSN: 2328-5583, Online ISSN: 2328-5591, http://www.sciencepublishinggroup.com/journal/index?journalid= 134); (vi) a member of the Editorial Board of the international scientific journal "*The Open Agriculture Journal"* (eISSN: 1874-3315, https://openagriculturejournal.com/ editorial-board.php); (vii) a member of the Editorial Board of the international scientific journal "*Environmental and Agricultural Sciences"* (ISSN: 2313-8629, http://jeas.agropublishers.com/jeas-editorial-board/); (viii) a member of the Advisory Board of the international scientific journal "*Sci"* (ISSN: 2413-4155, http://www. mdpi.com/journal/sci); (ix) the Editor-in-Chief of the international scientific journal *"International Journal of Agricultural Science"* (ISSN: 2367-9026, https://www.iaras.org/iaras/journals/ijas#editorial-board). (x) a member of the Editorial Panel of the international scientific journal "*EC Agriculture"* (https://www.ecronicon.com/agri culture-editorial-panel.php); (xi) a member of the Editorial Board of the international scientific journal "*Global Journal of Civl and Environmental Engineering"* (https://raftpubls. com/gjcee-civil-and-environ mental-engineering/editorial-bord.php); (xii) a member of the Editorial Board of the international scientific journal "*Open Journal of Electrical and Electronic Engineering"* (https:// www.raftpubs.com/ojeee-electrical-and-electronic-engineering/editorial-board.php); (xiii) a member of the Editorial Board of the international scientific journal "*Journal of Electronic and Communication Engineering"* (https://www.raft pubs.com/jec-electronic-and-communication/editorial-board.php); (xiv) a member of the Editorial Board of the international scientific journal "*Research Journal of Computer Science and Engineering"* (https:// www.raftpubs.com/rjcse-computer-science-and-engineering/editorial-board.php); (xv) a Review Editor on the Editorial Board of Solar Energy (specialty section of *Frontiers in Energy Research,* ISSN: 2296-598X). He also served as: (i) a Guest Editor of a Special Issue on the topic: *"Precision Agriculture Technologies for a Sustainable Future: Current Trends and Perspectives"* of the international scientific journal *"Sustainability"* (ISSN: 2071-1050, http://www.mdpi.com/journal/ instruments); (ii) a Guest Editor of a Special Issue on the topic: "*Adnaced Instrumentation for an Intelligent Agriculture: Current Trends and Perspectives"*, of the international scientific journal *"Instruments"*; (iii) a Guest Editor of a Special Issue on the topic: "*Sustainable Microgrids for Remote, Isolated and Emerging Areas: Current trends and Perspectives in Policies, Practices and Technologies"*, of the international scientific journal *"Sustainability"*; (iv) a Guest Editor of a Special Issue on the topic: "*Computational Intelligence in Agriculture and Natural Resources*", of the international scientific journal *"Inventions".* He currently serves as a Guest Editor of: (i) a Special Issue on the topic: "*Smarts Sensors for Automation in Agriculture 4.0*", of the international scientific journal "*Sensors"*; (ii) a Special Issue on the topic: "*Micromachines in Agriculture: Current Trends and Perspectives*", of the international scientific journal "*Micomachines"* (ISSN: 2072-666X); (iii) a Special Issue on the topic: "*IoT for Smart Agriculture*", of the international scientific journal "*Sensors"*, (iv) a Special Issue on the topic: "*Electric and Hybrid Vehicles: Technology, Trends, Challenges and Opportunities*", of the international scientific journal "*Energies"* (ISSN: 1996-1073), and (v) a Special Issue on the topic: "*High-End Technologies for Sustainable Agri-Food Systems*", of the international scientific journal "*Sustainability"*. He participated in the Scientific and/or Program Committees of 72 international scientific conferences and in the Scientific/Organizing Committees of 11 national scientific conferences. He also served as Chairman in scientific sections of several international scientific conferences. He is an active reviewer in several international scientific journals (65), book series (2) and scientific conferences, while, since January 2018, he is cerified as an Outstanding Reviewer of the international scientific journal *"Applied Energy"* (ISSN: 0306-2619, Elsevier Publishing Co.). His research work has received significant international recognition (4203 indepedent citations, h-index=30, g-index=61).

List Of Selected Publications (2018-2022):

[1]. **Ch.-S.Karavas, K.G.Arvanitis, G.Kyriakarakos, D.D.Piromalis** and **G.Papadakis,** «*A Novel Auto-nomous PV Powered Desalination System based on a DC Microgrid Concept Incorporating Short-Term Energy Storage"*, **Solar Energy** (ISSN: 0038-092X, 2021/2022 Impact Factor: 7.188, 2021/2022 5-Year Impact Factor: 6.701, 2021 Scopus Citescore: 11.0). Vol. 159, pp. 947-961, 2018. DOI: 10.1016/j.solener.2017.11.057. *(75 citations).*

[2]. **L.Li, J.-Y.Li, H.-H.Wang, Ts.Georgieva, K.P.Ferentinos, K.G.Arvanitis** and **N.Sigrimis,** «*Sustainable Energy Management of Solar Greenhouses using Open Weather Data on MACQU Platform"*, **International Journal of Agricultural and Biological Engineering** (ISSN: 1934-6344, eISSN: 1934-6352, 2021/2022 Impact Factor: 1.885, 2021/2022 5-Year Impact Factor: 2.232, 2021 Scopus Citescore: 3.9), Vol. 11, No. 1, pp. 74-82, 2018. DOI: 10.25165/j.ijabe.20181101.2713. *(9 citations).*

[3]. **D.D.Piromalis, K.G.Arvanitis, P.Papageorgas** and **K.P.Ferentinos**, «*Smart Precision Lighting for Urban and Landscape Closed Controlled Horticultural Environments"*, in D.Nandwani (Ed.), **Urban Horticulture: Sustainability for the Future**, Chapter 6, pp. 107-140, 2018. DOI: 10.1007/978-3-319-67017-1_6. Hardcover ISBN: 978-3-319-67016-4, eBook ISBN: 978-3-319-67017-1. Series Title: **Sustainable Development and Biodiversity (Series ISSN: 2352-474X),** Vol. 18**,** Basel, Springer, Switzerland, 2018. *(7 citations).*

[4]. **D.Loukatos, I.Manolopoulos, E.-S.Arvaniti, K.G.Arvanitis** and **N.A.Sigrimis,** "*Experimental Testbed for Monitoring the Energy Requirements of LPWAN Equipped Sensor Nodes*", **6ᵗʰ IFAC Conference on Bio-Robotics (Biorobotics 2018)**, Paper 164, Beijing, P.R.China, July 13–15, 2018. In **IFAC PapersOnLine** (ISSN: 2405-8963, 2020 Scopus Citescore: 2.1)**,** Vol. 51, No. 17, pp. 309-313, 2018. DOI: 10.1016/j.ifacol.2018.08. 196. *(7 citations).*

[5]. **Y.Wu, Sh.-Sh.Li, L.Li, M.-Z.Li, M.Li, K.G.Arvanitis, Cz.Georgieva** and **N.Sigrimis,** "*Smart Sensors from Ground to Cloud and Web Intelligence*", **6ᵗʰ IFAC Conference on Bio-Robotics (Biorobotics 2018)**, paper 169, Beijing, P.R.China, July 13–15, 2018. In **IFAC PapersOnLine** (ISSN: 2405-8963, 2020 Scopus Citescore: 2.1)**,** Vol. 51, No. 17, pp. 31-38, 2018. DOI: 10.1016/j.ifacol.2018.08.057. *(35 citations).*

[6]. **C.-S.Karavas, K.G.Arvanitis** and **G.Papadakis,** *"Optimal Technical and Economic Configuration of Photovoltaic Powered Reverse Osmosis Desalination Systems Operating in Autonomous Mode"*, **Desalination** (ISSN: 0011-9164, 2021/2022 Impact Factor: 11.211, 2021/2022 5-Year Impact Factor: 10.657, 2021 Scopus Citescore: 16.3). Vol. 466, pp. 97-106, 2019. DOI: 10.1016/j.desal.2019.05.007. *(44 citations).*

[7]. **E.Anastasiou, A.Castrignanò, K.G.Arvanitis** and **S.Fountas,** *"A Multi-Source Data Fusion Approach to Assess Spatial-Temporal Variability and Delineate Homogeneous Zones: A Use Case in a Table Grape Vineyard in Greece"*, **Science of the Total Environment** (Print ISSN: 0048-9697, Online ISSN: 1879-1026, 2021/2022 Impact Factor: 10.753, 2021/2022 5-Year Impact Factor: 10.237, 2021 Scopus Citescore: 14.1). Vol. 684, pp. 155-163, 2019. DOI: 10.1016/ j.scitotenv.2019.05.324. *(24 citations).*

[8]. **E.Symeonaki, K.G.Arvanitis, D.D.Piromalis** and **D.Tseles,** *"Current Trends and Challenges in the Deployment of IoT Technologies for Climate Smart Facility Agriculture"*, **International Journal of Sustainable Agricultural Management and Informatics** (Print ISSN: 2054-5819, Online ISSN: 2054-5827, 2021 Scopus Citescore: 1.5), Vol. 5, Nos. 2/3, pp. 181-200, 2019. DOI: 10.1504/IJSAMI. 2019.101673. *(10 citations).*

[9]. **D.Loukatos** and **K.G.Arvanitis,** *"Extending Smart Phone Based Techniques to Provide AI Flavored Interaction with DIY Robots, over Wi-Fi and LoRa Interfaces"*, **Education Sciences** (ISSN: 2227-7102, 2021 Scopus Citescore: 2.9), Vol. 9, No. 3, Paper 224, 2019. DOI: 10.3390/educsci9030224. *(15 citations)*.

[10]. **E.G.Symeonaki, K.G.Arvanitis** and **D.D.Piromalis** *"Cloud Computing for IoT Applications in Climate-Smart Agriculture: A Review on the Trends and Challenges Towards Sustainability"*, in A.Theodoridis, A.Ragkos and M.Salampasis (Eds.), **Innovative Approaches and Applications for Sustainable Rural Development, HAICTA 2017,** Springer, Cham, **Earth System Sciences Series**, Vol. 29, Chapter 9, pp. 147-167, 2019. DOI: 10.1007/978-3-030-02312-6_9. Print ISBN: 978-3-030-02311-9. Online ISBN: 978-3-030-02312-6. *(13 citations).*

[11]. **D.Loukatos, G.Tzaninis, K.G.Arvanitis** and **N.Armonis,** *"Investigating Ways to Develop and Control a Multi Purpose and Low Cost Agricultural Robotic Vehicle, under Scale"*, **Proceedings of the XXXVIII CIOSTA & CIGR V International Conference,** pp. 89-94, Rhodes Island, Greece, June 24-26, 2019. Paper ID: 180. Full text available on: https://efita-org.eu/wp-content/uploads/ 2020/02/14.-ciosta8.pdf. *(4 citations).*

[12]. **E.Symeonaki, K.G.Arvanitis, P.Papageorgas** and **D.D.Piromalis,** *"Intelligent Conversational Agent Integration to a Social Media Platform for Controlling IoT Devices in Smart Agriculture Facilities"*, **Proceedings of 2019 EFITA-HAICTA-WCCA Congress,** pp. 180-185, Rhodes Island, Greece, June 27-29, 2019. Paper ID: 257. Full text available on: https://efita-org.eu/wp-content/uploads/ 2020/02/29.-efita33.pdf.

[13]. **D.Loukatos, A.Fragkos** and **K.G.Arvanitis,** *"Experimental Performance Evaluation Techniques of LoRa Radio Modules in Typical Agricultural Applications"*, **2019 EFITA-HAICTA-WCCA Congress,** Rhodes, Greece, June 27-29, 2019. Paper ID: 278. Accepted for presentation. *(1 citation)*

[14]. **D.Loukatos, A.Fragkos** and **K.G.Arvanitis,** *"Exploiting Voice Recognition Techniques to Provide Farm and Greenhouse Monitoring for Elderly or Disabled Farmers, over WiFi and LoRa Interfaces"*, **2019 EFITA-HAICTA-WCCA Congress,** Rhodes, Greece, June 27-29, 2019. Paper ID:266. Presented at the Conference. *(1 citation).*

[15]. **E.Symeonaki, K.G.Arvanitis, D.D.Piromalis** and **M.Papoutsidakis,** *"Conversational User Interface Integration in Controlling IoT Devices Applied to Smart Agriculture: Analysis of a Chatbot System Design"*, **Proceedings of SAI Intelligent Systems Conference 2019,** Vol. 1, London, United Kingdom, September 5-6, 2019. Also in: Y.-X.Bi, R.Bhatia and S.Kapoor (Eds.), **IntelliSys 2019: Intelligent Systems and Applications,** Springer, Cham, Part of the **Advances in Intelligent Systems and Computing Series,** Vol. 1037, Chapter 80, pp. 1071-1088, 2019. DOI: 10.1007/978-3-030-29516-5_80. Print ISBN: 978-3-030-29515-8. Online ISBN: 978-3-030-29516-5. See on: https://link.springer.com/chapter/10.1007/ 978-3-030-29516-5_80. *(5 citations).*

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