



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s)

Last update: 2/2021



**Ioannis Tsirogiannis**

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Nationality

Greek

Date of birth

21.09.1972

Gender

Male

Family status

Married with 2 children (13 and 16 y)

### Work experience

Dates

**December 2006 - today**

Occupation or position held

Member of the academic staff / permanent job, Associate Professor of Irrigation of Crops and Landscaping Projects at University of Ioannina, Dept. of Agriculture (<https://www.uoi.gr>). Job history: hired as Lecturer (12/2006) at the Technological Educational Institute of Epirus (TEIEP, tertiary level public education, research & development); permanent staff (Lecturer) from 2010; Assistant Professor from 4/2013, Associate Professor from 6/2017; TEIEP was merged with the University of Ioannina (Uoi) in 2018.

Main activities and responsibilities

Teaching and research concerning:

- Soil science, Land reclamation
- Design, construction and management of irrigation and drainage systems for agricultural and landscape projects (from scheme down to end-user level)
- Applications of GIS and CAD software in agronomic sciences (ESRI ArcGIS, QGIS, AutoDesk AutoCad, AEI Software IRRICAD, IRMA\_SYS, Manna etc.)

Managerial activities:

- TEIEP, Dean of the Faculty of Agricultural Technology and Food Technology and Nutrition and President of the Department of Agricultural Technology (25, 10 and 3 members of academic, technical and administrative staff respectively and 450 of active students) from 1/12/2017 – 15/12/2018. Representative of the Faculty (with vote right) to the Council of TEIEP.
- Representative (4/2012 – 4/2015) of TEIEP at UNISCAPE (European Network of Universities for the Implementation of the European Landscape Convention, <http://www.uniscape.eu>)
- Management of national and international R&D projects (for analytical information please check Annex 2 List of participation in R&D projects):
  - o Running
    - 1/4/2018 – now: CBC Programme V-A Greece – Italy 2014-2020, IR2MA Large Scale Irrigation Management Tools for Sustainable Water Management in Rural Areas and Protection of Receiving Aquatic Ecosystems (Subsidy Contract No: I1/2.3/27), project manager and scientific coordinator of Uoi's team
    - 1/4/2018 – now: Interreg IPA II CBC Programme Greece - Albania 2014 – 2020, OLIVE\_CULTURE Contribution to the enhancement of olive sector by promoting certified good cultivation practices, applying precision agriculture technologies, creating innovative local products and supporting relevant SMEs (Subsidy Contract No: A2-2.2.-5), scientific coordinator of Uoi's team
  - o Completed

	<ul style="list-style-type: none"> <li>▪ 12/2017 – 12/2019: NSRF Greece 2014-2020, HIMIOFoTS - Hellenic Integrated Marine and Inland Water Observing, Forecasting and Offshore Technology System (MIS code: 5002739), scientific coordinator of Uoi's team</li> <li>▪ 7/2017 – 6/2018: NSRF – ROP Epirus / Greece 2014-2020, Integrated monitoring system for the creation of time series, models and reports regarding floods in the city of Igoumenitsa (MIS 5006503), project manager and scientific coordinator of TEIEP's team</li> <li>▪ 1/1/2016 – 30/9/2018: ATOO, water volume and quality measurements in participatory irrigation and drainage systems, irrigation and drainage systems auditing, soil analysis, project manager and scientific coordinator of TEIEP's team</li> <li>▪ 1/2016 – 4/2017: EEEA grants 2009-2014, The anoxic zone of Amvrakikos Gulf: Registration, Effects and Management, as scientific coordinator – team manager of WP5 – Qualitative and Quantitative analysis of the inputs from the drainage system to Amvrakikos and their contribution to the status of the anoxic zone (TEI participated as partner)</li> <li>▪ 5/2013 – 10/2015: Project manager of the ETCP 2007-2013 Greece – Italy project: "IRMA - Efficient Irrigation Management Tools for Agricultural Cultivations and Urban Landscapes"</li> <li>▪ 10/2012 – 10/2015: NSRF 2007-2013 "Archimedes", HSoB - Hydroponic Structures on Buildings, field operations manager of the project team (TEIEP was the only partner)</li> <li>▪ September 2014 – November 2014: NSRF 2007-2013 "Triptolemos" - Training in modern greenhouse crops and hydroponics, project manager (TEIEP was the only partner)</li> <li>▪ 1/2011 – 12/2013: Departmental Manager of the "Entrepreneurship" for the Dept. of Floriculture - Landscape Architecture of TEIEP (organisation of on-site and web mentoring events)</li> </ul> <p>- Participation as researcher in national and international R&amp;D projects (details in Annex 2)</p>
Name and address of employer	University of Ioannina (Uoi), Dept. of Agriculture, Kostakii, 47100, Arta, GREECE ( <a href="http://www.uoi.gr">www.uoi.gr</a> )
Type of business or sector	Public, tertiary level education / university, research and development
Dates	<b>March 2003 – November 2006</b>
Occupation or position held	Rural development consultant
Main activities and responsibilities	Project monitoring and final beneficiaries sub-projects' support in the areas of Arta and Preveza (Region of Epirus / Greece) as well as representative in EuroVillages in the framework of the LEADER+ (an EU initiative designed to improve the quality of life of the population of the countryside and to attract young people into the rural economy)
Name and address of employer	ETANAM S.A., Ioanninon 210, 48100, Preveza, GREECE ( <a href="http://www.etanam.gr">http://www.etanam.gr</a> )
Type of business or sector	Local Development Company
Dates	<b>September 2002 – March 2003</b>
Occupation or position held	Agricultural consultant
Main activities and responsibilities	Productive operation regarding Agricultural Activities of the Civil Service Center
Name and address of employer	Municipality of Kompoti – Kompoti 47040, Arta, GREECE ( <a href="http://www.nskoufas.gr/index.php?lang=en">http://www.nskoufas.gr/index.php?lang=en</a> )
Type of business or sector	Municipality
Dates	<b>February 1999 – November 2006</b>
Occupation or position held	Freelancer agricultural engineer / consultant (owner of Agroworks)
Main activities and responsibilities	<ul style="list-style-type: none"> <li>- preparation of proposals for funding of agricultural development and research projects (EU and national level),</li> <li>- design of irrigation systems for landscape and agricultural projects,</li> <li>- sales representative and after sales technical expert of the special irrigation design software (AEI Software IRRICAD and FASTQUOTE),</li> <li>- co-founder, (2002), of the internet site <a href="http://www.agriculture.gr">www.agriculture.gr</a>, which aimed to the sharing of agricultural engineering knowledge,</li> <li>- sub-contractor of AGREK K. Samantouros S.A. technical company for greenhouse design and installation for the area of Arta,</li> <li>- sub-contractor of PKnet Informatics for the publication of the annual special directory "Greek agriculture – Yellow Pages" (1999).</li> </ul>
Name and address of employer	Agroworks, 92 Skoufa St., 47100, Arta, GREECE
Type of business or sector	Agricultural Engineering
Dates	<b>August 1997, January 1998 – February 1998</b>

Occupation or position held | Seconded researcher in the framework of HCM network project: "Greenhouse design: functional and structural aspects and test methods of covering materials"

Main activities and responsibilities | Experiments concerning greenhouse structural safety against wind loading (8/1997 IMAG-DLO, Wageningen, The Netherlands and 1-2/1998 ITG (Hannover University), Germany.

Name and address of employer | Agricultural University of Athens, Dept. of Natural Resources Development and Agricultural Engineering, 75 Iera Odos St., 118 55 Athens, GREECE

Type of business or sector | University

## Education and training

Dates | **March 2007 – December 2011**

Title of qualification awarded | PhD

Principal subjects/occupational skills covered | Thesis title "Water management of greenhouse cultivations using plant water condition indices"

Name and type of organisation providing education and training | University of Thessaly, School of Agricultural Sciences, Dept. of Agriculture Crop Production and Rural Environment, Volos, GR

Level in national or international classification | ISCED 6

Dates | **September 1998 – June 2000**

Title of qualification awarded | MSc

Principal subjects/occupational skills covered | Natural Resources Management and Agricultural Engineering

Name and type of organisation providing education and training | Agricultural University of Athens, Dept. of Natural Resources Management and Agricultural Engineering, Athens, GR

Level in national or international classification | ISCED 5

Dates | **September 1990 – September 1996**

Title of qualification awarded | Bachelor in Agricultural Engineering (5 years)

Principal subjects/occupational skills covered |

- agricultural water management (hydrology, hydraulics, plant's water needs, scheduling)
- agricultural machinery
- agricultural structures

Name and type of organisation providing education and training | Agricultural University of Athens, Dept. of Natural Resources Management and Agricultural Engineering, Athens, GR

Level in national or international classification | ISCED 5

## Personal skills and competences

Mother tongue(s) | **Greek**

Other language(s)

Self-assessment  
*European level (\*)*

**English**

**French**

**Italian**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
B1	Basic user	A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user
A1	Basic user	A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user

(\*) [Common European Framework of Reference for Languages](#)

Certifications:

English: Proficiency (ECPE), University of Michigan, 2005

French: Certificat de Langue Francaise, Institut Français d'Athenes, 1987

Italian: Greek State Certification of Language Skills Level A2

Social skills and competences	<ul style="list-style-type: none"> <li>- Team worker with good ability to adapt in different environments (I have participated in various types of teams: professional, teaching, research and voluntary work with Greek and multinational colleagues)</li> <li>- 20 months of military service at the Greek Airforce as Facilities Preservation Duties Soldier (obligatory in Greece)</li> </ul>
Organisational skills and competences	<ul style="list-style-type: none"> <li>- Coordination and administration of people, projects and budgets. Good experience in project management, good experience in field work and research organization and management.</li> </ul>
Technical skills and competences	<ul style="list-style-type: none"> <li>- Expert skills in irrigation systems design, installation and management concerning both agricultural and landscape architecture projects.</li> <li>- Good technical skills in agricultural constructions, greenhouse climate control and hydroponic, equipment.</li> <li>- Good skills in technical design</li> <li>- Good skills regarding installation of sensors for environmental and crop related measurements.</li> </ul>
Computer skills and competences	<ul style="list-style-type: none"> <li>- Power user of: Microsoft Office programs (MS Word, MS Excel, MS Power Point and MS Access), Autodesk Autocad, ESRI ArcGIS, QGIS, AEI Software IRRICAD, IRMA_SYS and Adobe Photoshop</li> <li>- Programming capabilities (FORTRAN, VISUAL BASIC for APPLICATIONS)</li> <li>- Experience with HTML and CMS tools (Mambo, Joomla etc) and ANSYS (Finite Elements Analysis software)</li> </ul>
Other skills and competences	<ul style="list-style-type: none"> <li>- Member of chamber, scientific societies and R&amp;D organisations: International Society of Horticulture Science (ISHS), Geotechnical Chamber of Greece, Greek Agricultural Engineers Society, Friends of Ancient Greek Technology</li> </ul>
Vehicle licences	Car (category B), Motorcycle (category A), Agricultural tractor, Motor boat, Sailing boat (sailor).

## Additional information

### Research and development experience

Participation in 26 R&D projects related to agricultural research, development and training funded in the framework of Greek and EU programmes (more information is available at: Annex 2: List of participation in research projects).

### Scholarships / Awards

1. Award (2015) for the creation of e-class επιπέδου A+ for Irrigation – Drainage in the framework of Opecoues project (available at: <http://eclass.teiep.gr>)
2. Manager of the team that won the 1<sup>st</sup> prize at EU EURID web awards 2015 (The Laurels category), for the project web site [www.irrigation-management.eu](http://www.irrigation-management.eu)
3. Coach of the student team that won the 8<sup>th</sup> prize at the innovation contest (European Council and Greek State) ideatree (<http://ideatree.gr>), for Hydroponic Structures on Buildings, 2014
4. Award from the National Research Institute for the development of internet site concerning «Greenhouses», in the framework of a relative national contest, 1999.
5. Scholarship from Greek State Scholarship Foundation for post graduate studies, 1998-2000.

### Patents, tools etc.

1. Participation in the team which developed the Android app IRMA\_SYS OPIA (<https://play.google.com/store/apps/details?id=org.goodagro.irmasysoria>) which calculated the irrigation needs of crops in Greece according to the JMD F.16/6631 (JG B' 428 2/6/1989) 1/6/2017-15/1/2018
2. Tsirogiannis I.L., Malamos N., 2017. Virtual agrometeorological stations system. OVI, Confirmation of prototype for use Πιστοποιητικό No. 20160200073 ([https://www.obl.gr/obl/Portals/0/ImagesAndFiles/Files/EDBI/2017/A/EDBI\\_A\\_2017\\_07.pdf](https://www.obl.gr/obl/Portals/0/ImagesAndFiles/Files/EDBI/2017/A/EDBI_A_2017_07.pdf), p. 16)
3. Tsirogiannis I.L., Karras G., Savvas D., Varras Gr., 2015. Hydroponic Surfaces for Planting. OVI No. 1008414, IN.CL.: A01G 31/02 (<http://www.obl.gr/obl/Default.aspx?tabid=124>, [http://www.obl.gr/obl/Portals/0/ImagesAndFiles/Files/EDBI/2015/A/EDBI\\_A\\_2015\\_01.pdf](http://www.obl.gr/obl/Portals/0/ImagesAndFiles/Files/EDBI/2015/A/EDBI_A_2015_01.pdf))
4. Participation in the team that developed the model of the participatory system for irrigation recommendations (DSS) for the plain of Arta/Greece (<https://irmasys.eu/>) 1/1/2014 – 31/12/2015

### Training

1. European Irrigation Association's 2020 Annual Conference, WEB event, 10/11/2020 (<https://irrigationeurope.eu/node/355>)
2. 3rd Workshop on "Application of technological tools in agricultural crop production" ETCP GR-IT 2014-20 TAGS project, CREA 5/11/2020 (<https://www.tagsinterreg.eu/en/2020/10/30/crea-organizes-the-3rd-workshop-of-tags-project/>)
3. IX International Symposium on Irrigation of Horticultural Crops, ISHS - International Society for Horticultural Science, Matra (Italy) 17-20/6/2019
4. Hellenic Agricultural Organization DIMITRA / Naoussa Institute, Seminar for "Agricultural Water Management – Land Reclamation Organisations", 20/4/2018, Naoussa, Greece
5. 28<sup>th</sup> Greek Society of Horticulture Science, October 2018, Thessaloniki, Greece
6. ISHS International Symposium on Sensing Plant Water Status - Methods and Applications in Horticultural Science, 5-7/10/2016, Potsdam/Berlin, Germany
7. ISHS Landscape & Urban Horticulture (LUH), June 21-24 2016, Athens, Greece
8. IrriMED2015, September 2015, Bari, Italy
9. IRLA2014 International Symposium "The Effects of Irrigation and Drainage on Rural and Urban Landscapes", 26-28 Nov 2014, Patras, Greece
10. 29<sup>th</sup> International Horticultural Congress (ISHS - International Society for Horticultural Science), 16-23 August 2014, Brisbane, Australia
11. Use of modern technology for the sustainable use of natural resources and the protection of environment. Seminar of the Scientific and Research Center of Epirus, 23/4/2013 Ioannina, Greece
12. 7<sup>o</sup> National Conference of the Greek Society of Agricultural Engineers, 24-27 November 2011, Athens, Greece
13. ISHS GreenSys 2011, ISHS, 5-10 June 2011, Chalkidiki, Greece
14. Design and Construction Methodology for Green Roofs. DIADEM in the framework of International Kipotechnika'11. Feb 12, 2011, Athens, Greece
15. 5<sup>th</sup> Greek national conference of P.E.EK.P.E. «Environmental Education: The crossroad of Education for Sustainable Development», 26-28 November 2010, Ioannina, Greece
16. 2<sup>nd</sup> International Conference of Pre-School Education, «Contemporary trends in Pre-School Education for the 21<sup>st</sup> century». Ioannina 22-24 October 2010
17. ISHS 28<sup>th</sup> International Horticultural Congress , 22-27 August 2010, Lisbon-Portugal
18. INTERNATIONAL TEACHING WEEK, Conference: "Teaching in a Foreign language", 26 -30 April 2010, Almería (Spain)
19. 6<sup>th</sup> National Conference of the Greek Society of Agricultural Engineers, 8-10/10/2009, Thessaloniki, Greece
20. ISHS 2<sup>nd</sup> International Conference on Landscape and Urban Horticulture, 9-13 June 2009, Bologna, Italy
21. Irrigation management and Mediterranean urban landscapes: Proposals and solutions for a sustainable future. Professional meeting in the framework of Kipotechnika'09, 17 January 2009, Athens, Greece
22. 5<sup>th</sup> National Conference of the Greek Society of Agricultural Engineers, 18-20 October 2007 Larissa, Greece
23. 11<sup>th</sup> Panhellenic Soil Science Congress (Greek Soil Science Society), 4-7/10/2006, Arta, Greece
24. Geographical Information Systems –G.I.S., Centre of Continuous Education and Training of the National and Kapodistrian University of Athens, 5/12/2005 to 27/4/2006 (distance learning)
25. Human Resources Management, National Authority for LEADER+, 29-30/3 2006 Athens, Greece
26. Art & Landscape – Gardens and Urban Green Spaces. TEI of Epirus Depts Floriculture – Landscape Architecture and Crop Science. Arta 15-16/4/2005
27. ArcGIS I (ArcInfo-ArcView) Version 9, Marathon Data Systems, 2005, Athens, Greece
28. Integrated agricultural production systems (AGRO 2.1., AGRO 2.2., EUREPGAP), TUF HELLAS, Halkida, 2004
29. 21<sup>st</sup> Panhellenic Congress of the Greek Society of Horticulture Science, 8-10/10/2003 Ioannina, Greece
30. 3<sup>rd</sup> Seminar for designing project for improvement of agricultural enterprises, Geotechnical Chamber of Greece, 2002, Arta, Greece
31. 2<sup>nd</sup> Greek National Agricultural Engineering Congress, 2000, Volos, Greece
32. 1<sup>st</sup> Greek National Agricultural Engineering Congress, 1999, Athens, Greece
33. Training in informatics - Datatechnika, 1996, Athens, Greece
34. Training in technical design – Studies Center for architectural design", K. and E. Zacharakis", 1990, Athens, Greece

#### Participation in the organising / scientific committees of international R&D events

1. Member of the scientific committee of the 29<sup>th</sup> Conference of the Greek Society of Horticulture Science, October 2019, Patras, Greece

2. Member of the scientific committee of the 28<sup>th</sup> Conference of the Greek Society of Horticulture Science, October 2018, Thessaloniki, Greece
3. Member of the scientific committee of ISHS International Symposium on Sensing Plant Water Status - Methods and Applications in Horticultural Science, Potsdam/Berlin, Germany 5-7/10/2016
4. Member of the scientific committee of ISHS Landscape & Urban Horticulture (LUH), June 21-24 2016, Athens, Greece
5. Member of the scientific and the organising committees of IriMED2015, September 2015, Bari, Italy
6. Representative of TEI of Epirus at the European Irrigation Association - Education and Certification Committee, from 5/2015 (F38.1899 / 13-5-2015)
7. Member of the scientific committee of the 9<sup>th</sup> Panhellenic Conference of Agricultural Engineers 2015 (<http://egme.gr/>)
8. Member of the scientific committee of HAICTA 2015 (7th International Conference on Information and Communication Technologies in Agriculture, Food and Environment, September 17-20, 2015, Kavala, Greece, <http://2015.haicta.gr/>)
9. Convenor of IRLA2014 International Symposium "The Effects of Irrigation and Drainage on Rural and Urban Landscapes", 26-28 Nov 2014, Patras, Greece
10. Member from 2014 of the organising committee of WATERinMARCH! irrigation and drainage design, construction and management event (<http://www.irrigation-management.eu/communication/water-in-march>) (every year, at the end of March, in the framework of the World Water Day)
11. Member of the steering committee of the 1<sup>st</sup> Thematic topic: Agriculture of the Technological Platform for Food Production of the Innovation Hub of Thessaly (<http://www.ekt.gr/el/news/10190>), from 2011 to 2013.
12. Member of the organising committee of the 11th Panhellenic Soil Science Conference, Hellenic Soil Science Society, Arta 4-7/10/2006.
13. Secretary of the organising committee of the 21<sup>st</sup> Conference of the Greek Society of Horticulture Science, October 2013, Ioannina, Greece

#### Technical teaching / training experience

March 2016-2020 Organiser of the annual event for irrigation management, WATERinMARCH! (listed in UN / World Water Day activities)

2020 Water and climate change, Arta, Greece 22/3/2020.

2019 DSS for irrigation management, Arta, Greece 28/3/2019.

2018 DSS for irrigation management, Arta, Greece 22 and 26/3/2018.

2017 Kiwifruit irrigation management, Arta, Greece 22-24/3/2017.

2016 Kiwifruit irrigation management, Arta, Greece 22-23/3/2016.

January 2016

Participation in the round table e-farmer, organized by Compo Hellas in the framework of Agrotica 2016 (Thessaloniki, Greece, 30/1/2016)

December 2014

Region of Apoulia (Italy). Educator in training session for irrigation and drainage systems auditing (11-12/12/2014, ETCP GR-IT 2007-13 IRMA project)

February 2014

Universidad de Almeria (Spain), Escuela Superior Politécnica, Departamento Produccion Vegetal. Educator regarding irrigation systems at Erasmus IP SUS HORTO "Advances in off-season vegetable production" (24/2-7/3/2014 cooperation between UAL, TEIEP, UGranada, UniPi και MendelU)

January 2012 and every January up to 2016

University of Ioannina (Greece), MSc AgroChemistry and Environment. Lectures regarding: "Water management in agricultural ecosystems. Irrigation and Drainage networks design, construction and management"

March 2012

Universidad de Almeria (Spain), Escuela Superior Politécnica, Laboratory training in the framework of «Master in Innovation and Technology of Greenhouses» under the theme: «Greenhouse irrigation systems: design and management" / ERASMUS

April 2010

Universidad de Almeria (Spain), Escuela Superior Politécnica, Laboratory training in the framework of «Master in Innovation and Technology of Greenhouses» under the theme: «Modern greenhouse irrigation systems: design and management” / ERASMUS

July 2008

Aegean University (Greece) – Dept. Of Environment & TEI of Epirus STEG 5h Laboratory training in the framework of “Master in Agriculture and Environment” under the theme: “Use of GPS and GIS for agricultural projects”

November 2006 – Today

Member of the permanent teaching stuff at the Department of Agricultural Technology of the Technological Educational Institute (TEI) of Epirus. Teaching subjects (12-16 hours / week):

- Soil science
- Irrigation and drainage systems design, installation and management
- CAD and GIS in agronomic sciences

From 1999 to 2006

I worked at the TEI of Epirus and at the TEI of Messologhi as part time professor for the teaching of: “Greenhouse structures”, “Irrigation and Drainage Systems Design” and GIS applications”

February 1998

“Greenhouse Damage in Greece” presentation in the framework of the seminar «Special Tasks in the field of horticulture Engineering», ITG Hanover, Hanover.

Published work (for analytical information please check Annex 1: List of Publications):

- PhD, MSc and BSc Theses
- Co-author of 30 research papers, published in international scientific peer reviewed journals and 1 research paper published in Greek national scientific peer reviewed journal, co-author of 34 research papers presented in international and national scientific conferences (more information at: Annex 1: List of Publications)
- Author of 1 book (more information at: Annex 1: List of Publications)
- Participation in the authoring teams of 10 books (more information at: Annex 1: List of Publications)
- Author of 9 booklets and e-class support regarding teaching subjects (Irrigation and Drainage, GIS, Technical Design – CAD/CAE) in the framework of my academic duties at TEIEP / UoI

Relevant information:

- h index (1/1/2021), SCOPUS = 9 (64 co-authors, 267 total references from 175 papers) and Google Scholar = 11 (426 references)
- Reviewer for:
  - Biosystems Engineering (Elsevier, <http://www.journals.elsevier.com/biosystems-engineering>), Impact Factor (2016): 1,997
  - Agricultural and Food Science (The Scientific Agricultural Society of Finland, <http://www.afsci.fi/>), Impact Factor (2016): 1,2
  - Agricultural Systems (Elsevier, <https://www.journals.elsevier.com/agricultural-systems>), Impact Factor (2016): 2,571
- BSc Theses supervision (since 2007 and in the framework of my academic duties at TEIEP/UoI): 57 theses (84 students) regarding irrigation, CAD/CAE and GIS in agriculture and landscape management, greenhouse design and management.
- MSc Theses supervision (since 2016 and in the framework of my academic duties at TEIEP/UoI): 4 theses / students
- PhD Theses: participation in consulting committee of one on going PhD at the University of Thessaly

## Annexes

- 1) List of Publications
- 2) List of R&D projects

## Annex 1: List of Publications

### 1. Theses

1. Tsirogiannis I.L., 2011. Water management of greenhouse crops using plant water condition indices", PhD Thesis, University of Thessaly, School of Agricultural Sciences, Dept. of Agriculture Crop Production and Rural Environment [in Greek, Greek National PhDs' Repository: <http://phdtheses.ekt.gr/eadd/handle/10442/28569>]
2. Tsirogiannis I.L., 2000. Critical load combinations for typical Greek greenhouse structures, MSc Thesis, Agricultural University of Athens, 2000 [in Greek]. Scholarship for post graduate studies from the Greek State Scholarships Foundation.
3. Tsirogiannis I.L., 1996. Greenhouse structures in Greece and their damages, BSc Thesis, Agricultural University of Athens, 1996 [in Greek].

### 2. Books, booklets and book chapters

1. Tsirogiannis I., Chapter regarding irrigation and drainage at: Encyclopedia of Olive Tree, 2017. Zambounis V. (Ed.) Gaia – Axion Editors, ISBN 978-618-83434-0-5
2. Luz P., F. Orsini, I. Tsirogiannis. Chapter at: Rooftop Urban Farming. Chapter 3. Rooftop Agriculture management / Section 3a. Water management and irrigation systems. To be published in 2016 by Springer
3. Orsini F., M. Accorsi, P. Luz, I.L. Tsirogiannis, G. Gianquinto, 2016. Sustainable Water Management in Green Roofs. Chapter (pages 167-207) at: Sustainable Water Management in Urban Environments. Younos, Tamim, Parece, Tammy E. (Eds), ISBN 978-3-319-29337-0 Springer (<http://www.springer.com/cn/book/9783319293356>)
4. Tsirogiannis I.L., Chalkidis I., Papanikolaou C., 2015. Irrigation Systems Auditing Guide. Arta (IRMA, 132p, ISBN: 978-618-80909-9-6, [http://www.irrigation-management.eu/deliverables/Del516Audit\\_PlanandSheets.rar](http://www.irrigation-management.eu/deliverables/Del516Audit_PlanandSheets.rar))
5. Karras G., Gizas G., Tsirogiannis I.L., 2015. Low-water demand local species for landscape design (Entiposis Pub., 119p, ISBN: 978-618-80909-8-9)
6. Karras G., Tsirogiannis I.L., Baltzoi P., 2014. Low-water demand agricultural cultivations and local species for landscape design (Entiposis Pub., 156p, ISBN: 978-618-80909-5-8, <http://www.irrigation-management.eu/flippingbook/irmaguide/#/0>)
7. Tsirogiannis I.L., 2014. Facts regarding effects of irrigation on yield and environmental issues in Zampounis V., Manos G., Tsirogiannis I.L., 2014. Potentials of olive cultivation in the Region of Epirus/ Greece. TEIEP, Arta (ISBN 978-618-80909-1-0, in Greek).
8. Tsirogiannis I.L., 2011. Use of rain harvest techniques in order to irrigate school gardens. Sustainable School Series, Arta (ISBN 978-960-93-2558-5, in Greek)
9. Tsirogiannis I.L., 2009. Use of special software for irrigation systems design – Applications with IRRICAD v9 PRO. Arta (ISBN 978-960-931254-7, in Greek)
10. Tsirogiannis I.L., 2008. Chapter regarding irrigation systems design and management in the book: Critical points and Guidance for Organic Kiwi Production. Pro.Bio.Sis, INTERREG IIIA GREECE-ITALY 2000-2006
11. Gizas G., Karras G., Patakiouta G., Tsirogiannis I.L., Varras G., Filis E., Mantzos N., Kirkas D., Giotis D., Stamati E., Karra A., Savvas D., Nectarios P. Dimirkou A., Golia E., 2007. Use of *Posidonia oceanica* L. Delille residues in agriculture. Greek-Italian Edition (ISBN: 978-960-86583-5-6) in the framework of Experiments concerning water use of turf grown on seaweed substrates in the framework of the INTERREG III 2000-2006 GREECE-ITALY project: " «*Posidonia oceanica*: fields protection and use in agriculture» (PoPruRa)"

### 3. Research papers published in scientific journals

1. Tsirogiannis, I.L., Malamos, N., Christofides, A., Anastasiadis, S., Koliopoulos, C., Fotia, K. and Baltzoi, P., 2018. Pilot operation and evaluation of a meteorological data fed water budget system for turfgrass. *Acta Hort.* 1197, 195-202 DOI: 10.17660/ActaHortic.2018.1197.26 <https://doi.org/10.17660/ActaHortic.2018.1197.26> (following presentation at ISHS International Symposium on Sensing Plant Water Status - Methods and Applications in Horticultural Science, Potsdam (Germany) 5-7/10/2016)
2. Fotia, K., Ntoulas, N., Koliopoulos, C., Tsirogiannis, I.L. and Nektarios, P., 2018. Utilization of reflectance indices to evaluate the impact of grey or recycled irrigation water on *Festuca arundinacea* turfgrass. *Acta Hort.* 1197, 103-108 DOI: 10.17660/ActaHortic.2018.1197.14 <https://doi.org/10.17660/ActaHortic.2018.1197.14> (following presentation at ISHS International Symposium on Sensing Plant Water Status - Methods and Applications in Horticultural Science, Potsdam (Germany) 5-7/10/2016)
3. Tsirogiannis I.L., Karras G., Varras Gr., Lampraki E., Bakea M., Savvas D., 2017. Exterior hydroponic panel - System and plants evaluation and effects on the building's outer surface conditions. ISHS International Symposium Landscape and Urban Horticulture, Athens (Greece) 20-25/6/2016. *Acta Hort.* 1189, 217-222 DOI: 10.17660/ActaHortic.2017.1189.42.
4. Antoniadis D., N. Katsoulas, I. Tsirogiannis and C. Kittas, 2017. Effect of planting and structural configurations on human thermal comfort in a schoolyard. ISHS International Symposium Landscape and Urban Horticulture, Athens (Greece) 0-25/6/2016. *Acta Hort.* 1189, 229-234. DOI: 10.17660/ActaHortic.2017.1189.44
5. Katsoulakou S., Lampraki E., Tsirogiannis I.L., Papakonstantinou K., Baltzoi P., Karras G., 2017. Evaluation of two hydroponic vertical planting systems for indoor living walls under different exposure to light. ISHS International Symposium Landscape and Urban Horticulture, Athens (Greece) 20-25/6/2016. *Acta Hort.* 1189, 291-296 DOI: 10.17660/ActaHortic.2017.1189.57
6. Katsoulas N., Antoniadis D., Tsirogiannis I., Labraki E., Bartzanas T., Kittas C., 2016. Microclimatic effects of planted hydroponic structures in urban environment: measurements and simulations. *International Journal of Biometeorology*. Published on line 29/11/2016
7. Varras G., Andreopoulou, Z., Tasoulas E., Papadimas C.H., Tsirogiannis I., Myriounis C.H., Koliouka C.H., 2016. Multi-purpose internet-based information system 'urban' urban tree database and climate impact evaluation. *Journal of Environmental Protection and Ecology*, 17(1): 380-386
8. Malamos, N., Tsirogiannis, I.L., and Christofides, A., 2016. Modelling irrigation management services: the IRMA\_SYS case. *International Journal of Sustainable Agricultural Management and Informatics*, 2(1): 1–18 DOI: <http://dx.doi.org/10.1504/IJSAMI.2016.077264>
9. Patakioutas, G., Dimou, D., Kostoula, O., Yfanti, P., Kyrkas, D., Baltzoi, P., Tsirogiannis, I.L., Ntoulas, N. and Nektarios, P.A. 2016. Turfgrass root system inoculation and colonization by a mycorrhizal fungus and other symbiotic micro-organisms and evaluation of its effects on green turf cover and growth. *Acta Hort.* (ISHS) 1122:65-72. IHC24 III International Conference on Turfgrass Management and Science for Sports Fields



10. Karras, G., Tsirogiannis, I.L., Bakea, M., Varras, G., Savvas, D., Lykas, C. and Salas, M.C. (2016). A plants palette for hydroponic structures on buildings. *Acta Hort.* 1108, 279-286 DOI: 10.17660/ActaHortic.2016.1108.36 <http://dx.doi.org/10.17660/ActaHortic.2016.1108.36>
11. Tsirogiannis, I.L., Karras, G., Lambraki, E., Varras, G., Savvas, D. and Castellano, S. (2016). Evaluation of a plastic tube based hydroponic system for horizontal and vertical green surfaces on buildings. *Acta Hort.* 1108, 323-330 DOI: 10.17660/ActaHortic.2016.1108.43 <http://dx.doi.org/10.17660/ActaHortic.2016.1108.43>
12. Baltzoi P., Tsirogiannis I.L., Dimou D., Kostoula O., Yfanti P., Patakioutas G., 2015. Effect of Symbiotic Microorganisms on Turfgrass under Two Irrigation Regimes. *International Journal of Plant & Soil Science* 8(2): 1-9, <http://sciencedomain.org/issue/1249>
13. Tsirogiannis I., Antoniadis D., Katsoulas N., Christidou V., Kittas C., 2015. Application of microclimatic landscape design in schoolyards in Greece. II International Symposium on Horticulture in Europe - SHE2012 (ISHS), July 1-5, 2012, Angers (France). *Acta Hort. (ISHS)* 1099:935-941, [http://www.actahort.org/books/1099/1099\\_119.htm](http://www.actahort.org/books/1099/1099_119.htm)
14. Varras G., Vozikis K.T., Myriounis C., Tsirogiannis I., 2015. Design of extensive green roofs for the major school plants of Piraeus. II International Symposium on Horticulture in Europe - SHE2012 (ISHS), July 1-5, 2012, Angers (France). *Acta Hort. (ISHS)* 1099:959-966, [http://www.actahort.org/books/1099/1099\\_122.htm](http://www.actahort.org/books/1099/1099_122.htm)
15. Tsirogiannis I.L., Fragaki V., Malamos N., Barouchas P., Fillis E., Scamarco L., Vanino S., Parente A., 2014. Evaluation Presentation and Development of a Web Based Irrigation Management Tool. 29th ISHS/IHC, Brisbane Australia, 16-23 August 2014. *Acta Horticulturae*, 1112, 225-232
16. Tsirogiannis I., Katsoulas N., Kittas C., Karras G., Savvas D., 2013. Relationships between Reflectance and Water Status in a Greenhouse Rocket (*Eruca sativa* Mill.) Crop. *European Journal of Horticultural Science* 78 (6): 275-282
17. Karras G., Tsirogiannis I.L., Fillis E., 2013. A Case Study of an in Situ Botanical Garden in Zagori, Greece. *Journal of Agricultural Science and Technology B*(3): 823-831
18. Gizas G., Tsirogiannis I., Bakea M., Mantzos N., Savvas D., 2012. Impact of hydraulic characteristics of raw or composted *Posidonia* residues, coir, and their mixtures with pumice on root aeration, water availability and yield in a lettuce crop. *HortScience* 47(7):896-901
19. Tsirogiannis, I., Savvas, D., Katsoulas, N. and Kittas, C. 2012. Evaluation of Crop Reflectance Indices for Greenhouse Irrigation Scheduling. *Acta Horticulturae* 927:269-276 [http://www.actahort.org/books/927/927\\_30.htm](http://www.actahort.org/books/927/927_30.htm)
20. Al Naddaf O., Livieratos I., Stamatakis A., Tsirogiannis I., Gizas G., and D. Savvas, 2011. Hydraulic properties of composted pig manure used as sole substrate or in mixture with perlite and their impact on agronomic performance of cucumber. *Scientia Horticulturae*, 129(1): 135-141
21. Tsirogiannis I., Katsoulas N. and C. Kittas, 2010. Effect of irrigation scheduling on gerbera flower yield and quality. *HortScience* 45(2): 265-270
22. Tsirogiannis I.L., 2010. Optimizing water use efficiency in urban landscapes using GIS. *Acta Horticulturae*, 881:317-320.
23. Katsoulas, N., Savvas, D., Tsirogiannis, I., Merkouris, O., Kittas, C, 2009. Response of an eggplant crop grown under Mediterranean summer conditions to greenhouse cooling. *Scientia Horticulturae*, 123(1): 90-98.
24. Katsoulas N., C. Kittas, I.L. Tsirogiannis, E. Kitta, D. Savvas, 2007. Greenhouse Microclimate and Soilless Pepper Crop Production and Quality as Affected by a Fog Evaporative Cooling System, *Transactions of the ASABE*, 50(5): 1831-1840
25. Savvas D., E. Stamatii, I.L. Tsirogiannis, N. Mantzos, P.E. Barouchas, K. Kittas, N. Katsoulas, 2007. Interactions between Salinity and Irrigation Frequency in Greenhouse Pepper Grown in a Closed-loop Hydroponic System, *Agricultural Water Management*, 91:102-111
26. Savvas D., Mantzos N., Barouchas P.E., Tsirogiannis I., Olympios C., Passam H.C., 2007. Modeling Salt Accumulation by a Bean Crop Grown in a Closed Hydroponic System in Relation to Water Uptake. *Scientia Horticulturae*, 111(4): 311-318
27. Katsoulas, N., Kitta, E., Kittas, C., Tsirogiannis, I.L., Stamatii, E., Savvas, D., 2006. Greenhouse cooling by a fog system: Effects on microclimate and on production and quality of a soilless pepper crop. *Acta Horticulturae (ISHS)*, 719:455-461
28. Savvas D., Tsirogiannis I.L., Gizas G., Petropoulos N., Koukladas S. and Sigrimis N., 2006. Exploring a model relating the accumulation of NaCl with water consumption in closed hydroponic systems, *HORTIMODEL 2006* October 29 - November 2, 2006 Wageningen, The Netherlands. 2006 *Acta Horticulturae (ISHS)*, 718: 453-460
29. Savvas D., Meletioui G., Margariti S., Tsirogiannis I.L. and Kotsiras A., 2005. Modeling the Relationship between Water Uptake by Cucumber and NaCl Accumulation in a Closed Hydroponic System, *HortScience*, 40(3): 802-807
30. Tsirogiannis I.L., Briassoulis D., «Damages of greenhouse structures in Greece», *Geotechnical Scientific Issues*, Volume 10, Issue I – No 3/1999 [in Greek].

#### 4. Presentations at scientific conferences (date order)

1. Malamos N., Tsirogiannis I., 2021. The agrometeorological stations network of Epirus for irrigation recommendations. Accepted for presentation at the 15<sup>th</sup> International Conference on Meteorology, Climatology and Atmospheric Physics - COMECAP 2020, Ioannina, Greece 26/09/2021 - 29/09/2021
2. Barouchas P., Avramidis P., Krinas K., Evangelopoulou F., Kakaridi E., Tsirogiannis I., Karantzas K., Liopa-Tskalidi A., Salahas G., Moustakas N., 2019. TAGs: Precision agriculture techniques for the estimation of specific electric conductivity of soil in industrial tomato crop at Western Greece. 29<sup>th</sup> Conference of the Greek Society of Horticulture Science (15 – 18 / 10 / 2019, Patras, Greece) [in Greek].
3. Barouchas P., Christodoulou K., Kampranis A., Tsirogiannis I., Ioannou K., Sirmakesis S., Katsis M., Papadatos P., 2019. SOILSYS-PHOS: Method for quick estimation of available soil phosphorus using low volume reagents suitable for robotic systems. 29<sup>th</sup> Conference of the Greek Society of Horticulture Science (15 – 18 / 10 / 2019, Patras, Greece) [in Greek].
4. Tsirogiannis I., P. Baltzoi, K. Fotia, P. Barouchas, A. Christofides, N. Malamos, 2019. Evaluation of an operational participatory system for irrigation recommendations - Case study for kiwifruit crop in Greece. Presented at ISHS IX International Symposium on Irrigation of Horticultural Crops, Matera (Italy) 17-20/6/2019, under publication in *Acta Horticulturae*.

5. Fotia K., I.L. Tsirogiannis, P. Baltzoi, P. Barouchas, N. Malamos, N. Mantzos, K. Zisis, G.D. Nanos, 2019. Evaluation of Water Footprint for table olive groves of *Olea europaea* L. – cv. Conservolea. Presented at ISHS IX International Symposium on Irrigation of Horticultural Crops, Matera (Italy) 17-20/6/2019, under publication in *Acta Horticulturae*.
6. Tsikerdekis A., Myriounis C., Zanis P., Tsirogiannis I., G. Varras, 2019. Climate change and its impact on annual maximum precipitation using high resolution regional climate simulations for the region of Igoumenitsa. AIC 2019 Climatic Change, Variability and Climate Risks XXXIIth International Climatology Conference (Association International de Climatologie) Thessaloniki, Greece 29/5-1/6/2019.
7. Tsirogiannis I.L., Malamos N., Barouchas P., Baltzoi P., Fotia K., Tenedios G., Kateris D., Giotis D., Tsoumani E., Xiras S., Christophedes A, 2017 Evaluation of the application of rhw participatory system for irrigation management IRMA\_SYS regarding kiwi fruit crop. 28<sup>th</sup> Conference of the Greek Society of Horticulture Science (16 – 20 / 10 / 2017, Thessaloniki, Greece) (Proceedings p. 465-468) [in Greek]
8. Fotia K., Baltzoi P., Mantzos N., Kirkas D., Yfanti P., Beza P., Patakioutas G., Karras G., Tsirogiannis I.L., Koutsikopoulos K., 2017. The development of horticulture at the plain of Arta and its effects on the ecosystem of Amvrakikos. 28<sup>th</sup> Conference of the Greek Society of Horticulture Science (16 – 20 / 10 / 2017, Thessaloniki, Greece) (Proceedings p. 469-472) [in Greek]
9. Malamos N., Tsirogiannis I.L., Tegos A. and Koutsoyiannis D., 2016. Bilinear surface smoothing for spatial interpolation of daily potential evapotranspiration for irrigation design purposes. 10th World Congress of EWRA (European Water Resources Association) – “Panta Rhei” 5-9 July 2017, Athens, Greece <http://ewra2017.ewra.net/>
10. Kittas C., Antoniadis D., Katsoulas N., Tsirogiannis I.L., Varras G. and Bartzanas T., 2015. Measurements and simulation of microclimatic effects of a horizontal hydroponic pergola. 7th International Conference in ICT for Food, Agriculture & environment - HAICTA 2015, Sept 17-22, 2015 Kavala, Greece: 255-262
11. Malamos N., Tsirogiannis I.L., Christofides A., Anastasiadis S., Vanino S., 2015. Main features and application of a web-based irrigation management tool for the plain of Arta. 7th International Conference in ICT for Food, Agriculture & environment - HAICTA 2015, Sept 17-22, 2015 Kavala, Greece: 174-185
12. Tsirogiannis I.L., P. Barouchas, N. Malamos, P. Baltzoi, K. Fotia, 2015. Sustainability for Soil and Water Resources in Agriculture and Landscaping, the ETCP GR-IT IRMA project: One Step at a Time Concept. Congress Soil Functions and Climate Change, Kiel/Germany 23-26 September 2015
13. Castellano S. and Tsirogiannis I.L., 2015. Daylight analysis inside photovoltaic greenhouses. 43rd International Symposium "Actual Tasks on Agricultural Engineering", 24-27 Jan 2015, Opatija, Croatia (pp 703-712)
14. Tsirogiannis I.L., Karras G., Barellos D., Tsolis D., 2015. The irrigation scheme of the plain of Arta and its effects on the rural landscape and the Amvrakikos' Natura area. IRLA2014, 26-28 Nov 2014, Patras, Greece. (Agriculture and Agricultural Science Procedia, 4:20-28).
15. Myriounis C., Barouchas P., Tsirogiannis I.L., Chalkides I., Malamos N., Babilis D., 2015. Agricultural and urban green infrastructure irrigation systems auditing - A case study for the Region of Epirus, Greece. IRLA2014, 26-28 Nov 2014, Patras, Greece (Agriculture and Agricultural Science Procedia, 4, 2015: 300-309)
16. Malamos N., Barouchas P., Tsirogiannis I.L., Liopa-Tsakalidi A., Koromilas T., 2015. Estimation of monthly FAO Penman-Monteith evapotranspiration in GIS environment, through a geometry independent algorithm. IRLA2014, 26-28 Nov 2014, Patras, Greece (Agriculture and Agricultural Science Procedia, 4: 290-299)
17. Barouchas Pantelis, E., Ioannis Tzimas, Aglaia Liopa-Tsakalidis, Nicolaos Malamos and Ioannis Tsirogiannis. 2014. Predicting soil lime requirements using agro-informatics practices. 20th World Congress of Soil Science, June 8-13, 2014 - Jeju, KOREA, Friday, 13 June 2014, P4-107, AF2511 (only abstract available)
18. Papanastasiou D.K, Bartzanas T., Baltzoi P., Tsirogiannis I.L. Kittas K., 2013. Future Irrigation Needs of Thessaly Region. Approved for presentation in the 8<sup>th</sup> Conference of the Greek Society of Agricultural Engineers, Sept 2013, Volos, Greece [in Greek]
19. Barouchas P. Liopa-Tsakalidi A., Malamos N., Tsirogiannis I. L., Kouloupoulos A., 2013. Effects of soil organic content to the development of rocket plants (*Eruca sativa* L.) under over irrigation conditions. 14th Conference of Greek Society of Horticulture Science, 10/2013, Kalamata [in Greek]
20. Tsirogiannis I.L., Varras G., Voziki T.K., Chioteli K., Tsoukala C., 2013. Evaluation of the Legal Framework for the Design, Construction and Management of Playgrounds in Greece and Presentation of the Relevant Spaces' Current State in Ten Cities. UNISCAPE's 2013 conference: "Landscape and Imagination. Towards a new baseline for education in a changing world", Paris, France 2-4 May 2013, pp617-620
21. Varras Gr., Myriounis Ch., Tsirogiannis I.L., Ganatsios H.P., Kalfa A., Paulidis Th., 2013. Evaluation of the Level of Incorporation of Hydronic Works in Natural Landscape. UNISCAPE's 2013 conference: "Landscape and Imagination. Towards a new baseline for education in a changing world", Paris, France 2-4 May 2013, pp625-630.
22. Tasoulas E., Varras G., Tsirogiannis I., Myriounis C., 2013. Development of a GIS application for Urban Forestry Management Planning. 6th International Conference on Information and Communication Technologies in Agriculture, Food and Environment (HAICTA 2013), September 19-22, 2013, Corfu Island, Greece
23. Antoniadis D., Tsirogiannis I.L., Katsoulas N., Kitta E., Christidou V., Kittas K., 2013. Optimization of bioclimatic parameters of School Yards Approved for presentation in the 8<sup>th</sup> Conference of the Greek Society of Agricultural Engineers, Sept 2013, Volos, Greece [in Greek]
24. Tsirogiannis I.L., Savvas D., Katsoulas N., Kittas C., 2011. Evaluation of the relationship between water status and solar radiation reflectance over greenhouse cultivations. 7<sup>th</sup> Greek National Conference of Agricultural Engineering, 5-7 Oct. 2011, Athens [in Greek]
25. Tsirogiannis I.L., Triantos S., Gizas G., 2011. Turfgrass irrigation system auditing - application in football stadiums & landscape projects. 7<sup>th</sup> Greek National Conference of Agricultural Engineering, 5-7 Oct. 2011, Athens [in Greek]
26. Tsirogiannis I.L., Kitta E., 2010. Evapotranspiration – presentation to the primary level educators in order to use in the teaching of water cycle. Poster. 5<sup>th</sup> Greek national conference of P.E.EK.P.E. «Environmental Education: The crossroad of Education for Sustainable Development», Ioannina, 26-28 November 2010 [in Greek]
27. Tsirogiannis I.L., Kitta E., Tsoukala C., 2010. Design, management and evaluation of public urban spaces devoted to play with emphasis to playgrounds. Oral presentation. 2<sup>nd</sup> International Conference for PreSchool Education Ioannina 22 - 24 Oct. 2010 [in Greek]

28. Tsirogiannis I., Triantos S., 2009. Survey of irrigation practice in Arta and development of web tools for irrigation management. National Conference of the Greek Society of Agricultural Engineers, Thessaloniki, 8-10/10/2009 (pp. 51-58) [in Greek]
29. Varras G., Alexopoulou A., Papanikolaou T., Kalogrias A., Petropoulos N., Tsirogiannis I., 2009. Photointerpretation at the mapping of the new Hellenic land parcel identification system. 29th EARSeL (European Association of Remote Sensing Laboratories) Symposium, June 15-18, Chania, Greece
30. Varras Gr., Paulidis TH., Ganatsios X., Petropoulos N., Tsirogiannis I.L., Frantzi A., 2007. The use of drystone wall as construction material. (Poster) 13th National Forestry Conference, 7-10 October 2007 Kastoria [in Greek]
31. Stamati E., Savvas D., Tsirogiannis I.L., Barouchas P., Katsoulas N., Kittas K., 2007 Irrigation frequency and salinity in greenhouse pepper crop under closed hydroponic system. 23rd Conference of EEEO 23-26/10/2007 Chania [in Greek].
32. Tsirogiannis I. L., N. Katsoulas, C. Kittas, D. Savvas, 2007. Comparison of water needs calculation methods for greenhouse pepper cultivation. 5th National Conference for Agricultural Engineering Larissa, 18-20 October 2007 [in Greek]
33. Varras Gr., Petropoulos N., Tsirogiannis I.L., Frantzi A., 2007. Development of a GIS for evaluation, management and planning of urban landscapes. 'Landscape Architecture and New Technologies' conference', Kavala, May 25-26, 2007.
34. Savvas D., Tsirogiannis I.L., Gizas N., Petropoulos N., Sigrimis N., 2006. Evaluation of a model for connecting NaCl with water consumption in closed hydroponic systems. 11th Conference of the Greek Soil Science Society, Arta 4-7/10/2006 [in Greek].
35. Savvas D., Tsirogiannis I.L., 2002. Computer - Controlled Recycling of nutrient solutions in Hydroponics by means of two alternative models. 1st Conference of Hellenic Association of ICT in Agriculture, Food and Environment, Athens 6-7 June 2002.
36. Tsirogiannis I.L., Briassoulis D., 2000. Critical load combinations for typical Mediterranean greenhouse according the new European standard for greenhouses prEN 13031-1. AgEng 2000 International conference on agricultural engineering, Warwick 2-7 July 2000
37. Tsirogiannis I.L., Briassoulis D., 2000. Critical load combinations for typical Mediterranean greenhouse according the new European standard for greenhouses prEN 13031-1:1999- a first approach. 2nd Hellenic conference of Agricultural Engineering, Volos 28-30/9/2000. [in Greek].
38. Briassoulis D., Tsirogiannis I.L., Mistriotis A., 1998. Wind loading on greenhouse structures. 1st, Hellenic conference of Agricultural Engineering, Athens 10-12/1/1999. [in Greek].
39. Waaijenberg D., Briassoulis D., Tsirogiannis I.L., 1998. Design of plastic covered greenhouses following the new European Standard for greenhouses prEN 1301-1. AgEng Oslo 98 International conference on agricultural engineering, Oslo 24-27 August 1998.
40. Briassoulis D., Tsirogiannis I.L., Mistriotis A., 1998. Wind loading on greenhouse structures. AgEng Oslo 98 International conference on agricultural engineering, Oslo 24-27 August 1998

**Annex 2: List of participation in research projects (start date order)**

Period	Partner	Programme / Project / Duties
<b>Active</b>		
16/2/2021-31/12/2023	University of Ioannina (Uoi) Research Committee	NSRF 2014-20 Regional Excellence, BIOFUSE - Developing biodynamics in vineyards residues and wine lees management for the production of a bioactive organic fertilizer and its application in combination with a mycorrhizal fungus for the grapevine's organic cultivation improvement, as member of the research team
16/2/2021-31/1/2022	University of Ioannina (Uoi) Research Committee	NSRF 2014-20 Epirus. ICT – FoodAware - Modern kiwi quality assessment system, traceability of kiwi products and intelligent supply chain management based on advanced IT applications, as member of the research team
4/2018 – 6/2020	University of Ioannina (Uoi) Research Committee (Lead Partner)	CBC Programme V-A Greece – Italy 2014-2020, IR2MA Large Scale Irrigation Management Tools for Sustainable Water Management in Rural Areas and Protection of Receiving Aquatic Ecosystems (Subsidy Contract No: 11/2.3/27), project manager and scientific coordinator of TEIEP's team
4/2018 – 6/2021	University of Ioannina (Uoi) Research Committee	Interreg IPA II CBC Programme Greece - Albania 2014 – 2020, OLIVE_CULTURE Contribution to the enhancement of olive sector by promoting certified good cultivation practices, applying precision agriculture technologies, creating innovative local products and supporting relevant SMEs (Subsidy Contract No: A2-2.2.-5), scientific coordinator of TEIEP's team
<b>Completed</b>		
2/2020-2/2021	University of Patras (UoP) – Research Committee	Application of 5G-IoT technologies rationalize and optimize the use of water in agricultural sector. AREThOUSA (Co-financing of Greece and the European Union / 80896), as member of the research team
2/2020-11/2020	University of Patras (UoP) – Research Committee	Interreg V- A Greece-Italy Programme 2014-2020 TAGs as member of the research team ( <a href="https://www.tagsinterreg.eu/">https://www.tagsinterreg.eu/</a> )
12/2017-12/2019	University of Ioannina (Uoi) Research Committee	Operational Programme Competitiveness, Entrepreneurship and Innovation 2014-2020 (EPAnEK) - Hellenic Integrated Marine and Inland Water Observing, Forecasting and Offshore Technology System (HIMIOFoTS) as scientific coordinator of sub-project 16
6/2019-12/2018	TECHNOLOGICAL EDUCATIONAL INSTITUTE OF Western Greece (TEIWG)	NSRF – ROP Western Greece / Greece 2014-2020 Smart Digital System for Monitoring, Analysis, Advisory services and Quality Control of Soil and Fertilisation Using Microelectronics and IT technologies (SoilSYS), as member of the research team
9/2017-12/2018	Agricultural University of Athens (AUA)	H2020 – Action 3.2.1.1. - Increasing production efficiency and coping with climate change, while ensuring sustainability and resilience, TomRes (A novel and integrated approach to increase multiple and combined stress tolerance in plants using tomato as a model / Project ID: 727929, <a href="http://www.tomres.eu/">http://www.tomres.eu/</a> ), as substrate - crop – water consultant
7/2017-6/2018	TECHNOLOGICAL EDUCATIONAL INSTITUTE OF EPIRUS (TEIEP) Research Committee	NSRF – ROP Epirus / Greece 2014-2020, Integrated monitoring system for the creation of time series, models and reports regarding floods in the city of Igoumenitsa (MIS 5006503, <a href="http://tegeo.teiep.gr/50-agriculturalengineering-naturalresources-management/622-pepfloods-igou">http://tegeo.teiep.gr/50-agriculturalengineering-naturalresources-management/622-pepfloods-igou</a> ), as scientific coordinator – team manager for the period 1/7/2017-30/6/2018
10/2016-12/2017	TECHNOLOGICAL EDUCATIONAL INSTITUTE OF EPIRUS (TEIEP) Research Committee	Life, AGROMINE (Cropping hyperaccumulator plants on nickel rich soils and wastes for the green synthesis of pure nickel compounds / LIFE15 ENV/FR000512, <a href="http://ec.europa.eu/environment/life/project/Projects/index.cfm?fuseaction=search.dspPage&amp;n_proj_id=5759">http://ec.europa.eu/environment/life/project/Projects/index.cfm?fuseaction=search.dspPage&amp;n_proj_id=5759</a> ), as substrate - crop – water expert
12/2015-4/2017	TECHNOLOGICAL EDUCATIONAL INSTITUTE OF EPIRUS (TEIEP) Research Committee	EEEA grants 2009-2014, The anoxic zone of Amvrakikos Gulf: Registration, Effects and Management ( <a href="http://eeagrants.amvrakikos.upatras.gr/">http://eeagrants.amvrakikos.upatras.gr/</a> ), as scientific coordinator – team manager of WP5 – Qualitative and Quantitative analysis of the inputs from the drainage system to Amvrakikos and their contribution to the status of the anoxic zone (TEI participated as partner, <a href="http://eeagrants0914.ioa.teiep.gr/">http://eeagrants0914.ioa.teiep.gr/</a> )
1/2/2016	CERETETH (Centre for Research and Technology – Thessaly)	EU, DEAR Raising Public Awareness of development issues and promoting development education in the EU (EuropeAid/134863/C/ACT/MULTI, <a href="https://www.ruraldearagenda.eu/">https://www.ruraldearagenda.eu/</a> ) as expert regarding good practices regarding agricultural water management
7/2016	University of Bologna	External Expert for Precise Irrigation / Water Governance, The EU FP7 FIGARO Project ( <a href="http://www.figaro-irrigation.net/">http://www.figaro-irrigation.net/</a> )
3/2103 – 10/2015	TECHNOLOGICAL EDUCATIONAL INSTITUTE OF EPIRUS (TEIEP) Research-Committee (Lead Partner)	ETCP 2007-2013 Greece – Italy, IRMA - Efficient Irrigation Management Tools for Agricultural Cultivations and Urban Landscapes (I3.11.06, <a href="http://www.irrigation-management.eu">www.irrigation-management.eu</a> ), as project manager

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10/2012-10/2015	TECHNOLOGICAL EDUCATIONAL INSTITUTE OF EPIRUS (TEIEP) Research Committee	NSRF 2007-2013 "Archimedes", HSoB - Hydroponic Structures on Buildings, field operations manager of the project team
4/2015 – 9/2015	CERETETH (Centre for Research and Technology – Thessaly)	FP7, opIRIS - Irrigation Scheduling Expert System ( <a href="http://www.opiris.eu">http://www.opiris.eu</a> ), as irrigation expert
3/2015 – 9/2015	TECHNOLOGICAL EDUCATIONAL INSTITUTE OF EPIRUS (TEIEP) Research Committee	Greek Ministry of Agriculture, OpenCourses, preparation electronic educational material regarding irrigation systems design, installation and management
9/2014-10/2014	TECHNOLOGICAL EDUCATIONAL INSTITUTE OF EPIRUS (TEIEP) Research Committee	NSRF 2007-2013 "Triptolemos", Training in modern greenhouse cultivations and hydroponics, as project manager
5/2012-8/2015	TECHNOLOGICAL EDUCATIONAL INSTITUTE OF EPIRUS (TEIEP) Research Committee	NSRF 2007-2013 "Archimedes", Effect of mycorrhizal and other symbiotic microorganisms in plants cultivated in soil and soilless culture systems under biotic and abiotic stress conditions (EOMYCO) as researcher
4/2013-9/2013	Agricultural University of Athens	Life Learning Program, AGRICOM Competence Model Hydroponics – Irrigation ( <a href="http://www.agriculture-competence.eu">www.agriculture-competence.eu</a> ), as irrigation expert
2/2012-12/2013	TECHNOLOGICAL EDUCATIONAL INSTITUTE OF EPIRUS (TEIEP) Research Committee	ETCP 2007-2013 Greece – Italy, Towards a Common Quality Control and Food Chain Traceability System for the Greek – Italian Primary Sector of Activity "AGROQUALITY" ( <a href="http://agroquality.ioa.teiep.gr/">http://agroquality.ioa.teiep.gr/</a> ), as irrigation expert
1/2012-9/2013	TECHNOLOGICAL EDUCATIONAL INSTITUTE OF EPIRUS (TEIEP) Research- Committee	NSRF 2007 -2013 – Epirus, URBAN: Integrated Framework for Optimum Management, Protection and Use of Urban and Peri-Urban Green Infrastructure, as irrigation and drainage expert
5/2011 – 10/2011	CERETETH (Centre for Research and Technology – Thessaly)	EU FP7, SIRRIMED – Sustainable Use of Irrigation Water in the Mediterranean Region ( <a href="http://www.sirrimed.org">www.sirrimed.org</a> ) as irrigation and drainage expert
2/2011-6/2011	UTH (University of Thessaly)	UTH special R&D account, Contribution of Reasonable Landscape Design in the Amelioration of Bioclimatic Parameters of School Yards and on their use as educational places, as irrigation and drainage expert
1/2011-12/2013	TECHNOLOGICAL EDUCATIONAL INSTITUTE OF EPIRUS (TEIEP) Research Committee	TEIEP special R&D account, Entrepreneurship for the Dept. of Floriculture - Landscape Architecture of TEIEP, departmental manager
10-12/2006	TECHNOLOGICAL EDUCATIONAL INSTITUTE OF EPIRUS (TEIEP) Research Committee	NSRF 2000 -2006 – Epirus, NEW LAND – Integrated Geographical Information System for the Agricultural Sector of Epirus, production of shapefiles regarding soil parameters
12/2006 – 2/2008	TECHNOLOGICAL EDUCATIONAL INSTITUTE OF EPIRUS (TEIEP) Research Committee	INTERREG III 2000-2006 GREECE-ITALY, Posidonia oceanica: fields protection and use in agriculture» (PoPruRa), researcher concerning water use of turf grown on seaweed substrates
12/2006 – 10/2008	TECHNOLOGICAL EDUCATIONAL INSTITUTE OF EPIRUS (TEIEP) Research Committee	INTERREG III 2000-2006 GREECE-ITALY, Development and promotion for organic farming producing systems (ProBioSis), researcher concerning water needs of basic organic cultures of Epirus

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01/2004- 12/2007	TECHNOLOGICAL EDUCATIONAL INSTITUTE OF EPIRUS (TEIEP) Research Committee	EPEAEK II / "Archimedes", Development of know-how and technology for greenhouse close loop hydroponic cultivations, researcher concerning crops water needs
3/2003- 11/2006	ETANAM S.A - Local Development Company	EU Initiative LEADER+ for agricultural production and agro-tourism in the areas of Arta and Preveza, Region of Epirus / Greece, rural development consultant (project monitoring, final beneficiaries sub-projects' auditing and representative in EuroVillages
01/1998- 02/1998	ITG (Hannover University), Germany	HCM network, Greenhouse design: functional and structural aspects and test methods of covering materials, researcher
08/1997	IMAG-DLO, Wageningen, The Netherlands	