

# ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ ΘΩΜΑΣ ΜΠΑΡΤΖΑΝΑΣ

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Γεωπονικό Πανεπιστήμιο Αθηνών  
Τμήμα Αξιοποίησης Φυσικών Πόρων και Γεωργικής Μηχανικής

## ΠΛΗΡΟΦΟΡΙΕΣ

Εθνικότητα:	Ελληνική
Τόπος και Ημερομηνία Γέννησης:	Βέροια, 13-09-1973
Οικογενειακή κατάσταση:	Έγγαμος με 1 παιδί
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## 1 ΕΚΠΑΙΔΕΥΣΗ

### 1.1 ΔΙΔΑΚΤΟΡΙΚΟ

- Διδακτορικό Δίπλωμα Φιλοσοφίας στις Γεωπονικές Επιστήμες Τμήμα Γεωπονίας Φυτικής Παραγωγής και Αγροτικού Περιβάλλοντος του Πανεπιστημίου Θεσσαλίας.

### 1.2 ΒΑΣΙΚΟ ΠΤΥΧΙΟ

- Πτυχίο Γεωπονίας Φυτικής και Ζωικής Παραγωγής, Τμήμα Γεωπονίας Φυτικής και Ζωικής Παραγωγής του Πανεπιστημίου Θεσσαλίας

### 1.3 ΥΠΟΤΡΟΦΙΕΣ

- “Γενική Γραμματεία Έρευνας και Τεχνολογίας”, 1998-2000, Υποτροφίες Προσανατολισμένης Έρευνας (ΥΠΕΡ), 3 χρόνια

### 1.4 ΞΕΝΕΣ ΓΛΩΣΣΕΣ

- Ελληνικά (Μητρική Γλώσσα)
- Αγγλικά (Proficiency University of Michigan)
- Γαλλικά (Μέτρια γνώση)

## 2 ΕΠΑΓΓΕΛΜΑΤΙΚΗ ΕΜΠΕΙΡΙΑ

### 2.1 ΔΙΔΑΣΚΑΛΙΑ

#### 2.1.1 ΠΑΝΕΠΙΣΤΗΜΙΑΚΑ ΜΑΘΗΜΑΤΑ

- A. Γεωπονικό Πανεπιστήμιο Αθηνών, Τμήμα Αξιοποίησης Φυσικών Πόρων και Γεωργικής Μηχανικής, ακαδημαϊκό έτος 2018-σήμερα
- **Θερμοκηπιακές εγκαταστάσεις**
  - **Υδροπονικές εγκαταστάσεις**
  - **Διαμόρφωση εξωτερικών χώρων**
  - **Σχεδιασμός, Οργάνωση και Λειτουργία Θερμοκηπιακών Εγκαταστάσεων**
- B. Πανεπιστήμιο Θεσσαλίας, Τμήμα Γεωπονίας Φυτικής Παραγωγής και Αγροτικού Περιβάλλοντος, ακαδημαϊκά έτη: 2008-2009, 2009-2010, 2010-2011
- “Αποθήκευση αγροτικών προϊόντων”, M.Sc. course
  - “Αποθήκευση - συντήρηση αγροτικών προϊόντων”, B.Sc. course

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## 2.1.2 ΜΑΘΗΜΑΤΑ ΣΕ ΤΕΧΝΟΛΟΓΙΚΑ ΙΔΡΥΜΑΤΑ

C. ΤΕΙ Λάρισας, Σχολή Γεωπονίας, Τμήμα Μηχανικής Βιοσυστημάτων

- “Αποθήκες”, 3 ακαδημαϊκά έτη: 2004-2006.
- “Γεωργικά μηχανήματα” 3 ακαδημαϊκά έτη: 2004-2006.
- “Αποθήκευση - χειρισμός αγροτικών προϊόντων» 3 ακαδημαϊκά έτη: 2006-2008.
- “Μηχανικά μέσα διακίνησης αγροτικών προϊόντων» 3 ακαδημαϊκά έτη: 2006-2008.
- “Αγροτικά κτίρια” 1 ακαδημαϊκό έτος 2008-2009.
- “Έλεγχος Περιβάλλοντος Αγροτικών Κτιρίων” 2 ακαδημαϊκά έτη 2009-2011

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## 2.1.3 ΕΡΓΑΣΤΗΡΙΑΚΑ ΠΑΝΕΠΙΣΤΗΜΙΑΚΑ ΜΑΘΗΜΑΤΑ

Πανεπιστήμιο Θεσσαλίας, Τμήμα Γεωπονίας Φυτικής Παραγωγής και Αγροτικού Περιβάλλοντος

- “Έλεγχος Περιβάλλοντος Θερμοκηπίων”, 3 ακαδημαϊκά έτη: 1999-2002
- “Ενεργειακές τεχνολογίες στη Γεωργία”, 3 ακαδημαϊκά έτη: 1999-2002
- “Αποθήκευση αγροτικών προϊόντων”, 3 ακαδημαϊκά έτη: 2006-2008

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## 2.1.4 ΕΠΙΒΛΕΨΗ ΔΙΔΑΚΤΟΡΙΚΩΝ / ΜΕΤΑΠΤΥΧΙΑΚΩΝ

1. PhD co-supervisor: Προσομοίωση και πειραματική αποτίμηση πράσινης στέγης, 2010- Τσιάντου Στελλίνα, Πανεπιστήμιο Θεσσαλίας
2. M.Sc co-supervisor. Επίδραση δύο νεών υλικών κάλυψης θερμοκηπίου στην ενεργειακή κατανάλωση και την ψύξη θερμοκηπίων, 2009 Αθανάσιος Τσουκνίδας, Πανεπιστήμιο Θεσσαλίας
3. B.Sc supervisor. Καινοτόμα συστήματα αποθήκευσης αγροτικών προϊόντων, 2009, Άρτεμις Κίρτσα, ΤΕΙ Λάρισας
4. B.Sc supervisor. Αποθήκευση αγροτικών προϊόντων σε συνθήκες χαμηλού οξυγόνου, 2010, Χρήστος Κοκολόγος, Νίκος Ξαρχάς, ΤΕΙ Λάρισας
5. B.Sc co supervisor. Χρήση δεικτών καλλιέργειας για έλεγχο περιβάλλοντος θερμοκηπίων, 2010, Αθανάσιος Θασανέρης, Πανεπιστήμιο Θεσσαλίας
6. Msc co supervisor. Εφαρμογές τεχνικών γεωργίας ακριβείας για ολοκληρωμένη παραγωγή αχλαδιών, , 2011. Αλίκη Ζάχου. Ζαχου, Πανεπιστήμιο Θεσσαλίας
7. Msc co supervisor. Κατανομή μικροκλίματος σε διχτυοκίτια, 2012. Άννα Κανδύλα, Πανεπιστήμιο Θεσσαλίας
8. Msc co supervisor. Ορθολογική χρήση νερού σε περιβάλλον υψηλής αλατότητας θερμοκηπιακών καλλιεργειών 2012. Χρύσα Νικολάου, Πανεπιστήμιο Θεσσαλίας
9. Msc co supervisor. Προγραμματισμός άρδευσης υδροπονικών καλλιεργειών σε πραγματικό χρόνο, 2012. Πέτρος Παπαδόπουλος, Πανεπιστήμιο Θεσσαλίας

10. PhD co-supervisor. Microclimate and environment of livestock buildings – A CFD approach, 2012 Wentao Wu's, Aarhus University, Denmark
11. Msc co supervisor. Βελτιστοποίηση παραγόντων περιβάλλοντος θερμοκηπίου για έλεγχο αλατότητας σε υδροπονική καλλιέργεια, 2013. Ζαγάρη Ελένη. Πανεπιστήμιο Θεσσαλίας
12. Msc co supervisor. Χρησιμοποίηση αισθητήρων καταγραφής καλλιέργειας για την ανάπτυξη σχετικών διεκτών υδατικής καταπόνησης., 2013. Δερμάτη Κανέλλη, Πανεπιστήμιο Θεσσαλίας
13. PhD co supervisor. Εφαρμογή τεχνολογιών κτηνοτροφείας ακριβείας για τη μείωση του περιβαλλοντικού αποτυπώματος σε κτηνοτροφικές μονάδες. Βασίλειος Ανέστης, Πανεπιστήμιο Θεσσαλίας
14. PhD co supervisor. Βελτιστοποίηση σχεδιασμού αγροτικών κτιρίων με τη χρήση υπολογιστικών μεθόδων Μιχαλίνα Μαρκούση, Πανεπιστήμιο Θεσσαλίας

## 2.2 ΕΡΕΥΝΑ

### 2.2.1 ΙΝΣΤΙΤΟΥΤΑ

1. INRA, Station de Bioclimatology, Avignon. 15/2/2000 - 15/06/2000, προσκεκλημένος Ερευνητής
2. University of Thessaly, Department of Agriculture Crop Production and Rural environment, Laboratory of Agricultural Constructions and environmental Control, 2004-
3. Wageningen University, Greenhouse Technology Group. April 2008. Σύντομη ερευνητική επίσκεψη
4. CNRS, Laboratoire de Combustion et Systèmes Réactifs, France Orlean. May 2008. Σύντομη ερευνητική επίσκεψη
5. University of Aarhus, Department of Biosystems Engineering, September 2009, προσκεκλημένος Ερευνητής
6. University of Aarhus, Department of Biosystems Engineering, 1/08/2010 – 31/10/2010. Επισκέπτης Καθηγητής
7. Seoul National University, College of Life Sciences and Engineering, 1/10/2011 – 31/10/2011 and 1/5/2012-15/5/2012. Σύντομη ερευνητική επίσκεψη
8. Seoul National University, College of Life Sciences and Engineering, 1/10/2011 – 31/10/2011 and 1/5/2012-15/5/2012. Σύντομη ερευνητική επίσκεψη
9. University of Illinois Department of Agricultural and Biological Engineering, August 2012, Σύντομη ερευνητική επίσκεψη
10. University of Arizona Department of Agricultural and Biosystems Engineering, September 2012, Σύντομη ερευνητική επίσκεψη

11. Εθνικό Κέντρο Έρευνας και Τεχνολογικής Ανάπτυξης, Ινστιτούτο Έρευνας και Τεχνολογίας Θεσσαλίας, Τμήμα Αγροτεχνολογίας, Ερευνητής Β, Υπεύθυνος Τμήματος Αγροτεχνολογίας, 2007 έως σήμερα
12. University of Aarhus, Department of Engineering, Section Agricultural Engineering, Νοέμβριος 2015- post doc researcher

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### 2.2.2 ΕΡΕΥΝΗΤΙΚΑ ΠΡΟΓΡΑΜΜΑΤΑ

1. 1998.«Διερεύνηση των επιδράσεων παθητικού συστήματος θερμοκουρτίνας στην ενεργειακή συμπεριφορά του θερμοκηπίου». (Χρηματοδότηση Επιτροπή Ερευνών Πανεπιστημίου Θεσσαλίας). Ιδιότητα στο πρόγραμμα: Ερευνητής. (Ανάδοχος φορέας: Πανεπιστήμιο Θεσσαλίας)
2. 1998-2001. «Διαχείριση της Υψηλής Υγραμετρίας σε Ελληνικά Θερμοκήπια», Γενική Γραμματεία Έρευνας και Τεχνολογίας». Ιδιότητα στο πρόγραμμα: Ερευνητής/ (Χρηματοδότηση Υπουργείο Ανάπτυξης, Γενική Γραμματεία Έρευνας και Τεχνολογίας).
3. 2000. «Διερεύνηση της επίδρασης διχτύων εντομοστεγανότητας στον αερισμό θερμοκηπίου». Ιδιότητα στο πρόγραμμα: Ερευνητής . (Χρηματοδότηση, INRA, France).
4. 2001-2002 «Γεωργία και Περιβάλλον. Θερινό Σχολείο για Γεωργικούς Μηχανικούς». Ιδιότητα στο πρόγραμμα: Ερευνητής (Χρηματοδότηση Ευρωπαϊκή Ένωση).
5. 2001-2002. «Νέες τεχνολογίες εκμάθησης για Γεωργικούς μηχανικούς. Ένα τρίγωνο πιλοτικό διαδικτυακό εργαλείο». Ιδιότητα στο πρόγραμμα: Ερευνητής. (Χρηματοδότηση Ευρωπαϊκή Ένωση).
6. 2003-2004. «Παραγωγή UV-απορροφητικών φύλλων κάλυψης θερμοκηπίων με σκοπό τη μείωση των εχθρών και ασθενειών των φυτών και δοκιμή τους σε συνθήκες καλλιέργειας». Ιδιότητα στο πρόγραμμα: Ερευνητής (Χρηματοδότηση Υπουργείο Ανάπτυξης, Γενική Γραμματεία Έρευνας και Τεχνολογίας)..
7. 2004-2006. «Διερεύνηση της συμπεριφοράς φυτοπροστατευτικών ουσιών στο περιβάλλον του θερμοκηπίου». Ιδιότητα στο πρόγραμμα: Ερευνητής (Χρηματοδότηση Υπουργείο Παιδείας και Θρησκευμάτων).
8. 2006-2008. «Ανάπτυξη και βελτιστοποίηση καινοτόμου συστήματος θέρμανσης και στήριξης υδροπονικών καλλιεργειών φιλικού στο περιβάλλον». Ιδιότητα στο πρόγραμμα: Ερευνητής (Χρηματοδότηση Υπουργείο Ανάπτυξης, Γενική Γραμματεία Έρευνας και Τεχνολογίας, ΠΑΒΕ2005).
9. 2006-2008. «Ανάπτυξη και αξιολόγηση αντισταγονικών φύλλων κάλυψης κατάλληλων για θερμοκήπια φιλικά στο περιβάλλον». Ιδιότητα στο πρόγραμμα: Ερευνητής (Χρηματοδότηση Υπουργείο Ανάπτυξης, Γενική Γραμματεία Έρευνας και Τεχνολογίας, ΠΑΒΕ2005).

10. 2006-2008. «Καινοτόμες Μέθοδοι και Τεχνολογίες Διασφάλισης Ολικής Ποιότητας στην Παραγωγή, Συσκευασία, Διακίνηση, Αποθήκευση και Διάθεση Τροφίμων και Ποτών». Ιδιότητα στο πρόγραμμα: Ερευνητής (Χρηματοδότηση Υπουργείο Ανάπτυξης, Γενική Γραμματεία Έρευνας και Τεχνολογίας, Περιφερειακοί Πόλοι Καινοτομίας).
11. 2006-2008. «Διασφάλιση Ολικής Ποιότητας στην Παραγωγή, Συσκευασία, Διακίνηση, Αποθήκευση και Διάθεση Τροφίμων στη Θεσσαλία». Ιδιότητα στο πρόγραμμα: Συντονιστής (Χρηματοδότηση Υπουργείο Ανάπτυξης, Γενική Γραμματεία Έρευνας και Τεχνολογίας, Περιφερειακοί Πόλοι Καινοτομίας).
12. 2007-2008. «Διερεύνηση της συμπεριφοράς φυτοπροστατευτικών ουσιών στο περιβάλλον φυσικά αεριζόμενου θερμοκηπίου». Ιδιότητα στο πρόγραμμα: Ερευνητής. Πρόγραμμα Ελληνο-Γαλλικής συνεργασίας. (Χρηματοδότηση, Υπουργείο Ανάπτυξης, Γενική Γραμματεία Έρευνας και Τεχνολογίας).
13. 2007-2008. «Ενεργειακές Καλλιέργειες – Παραγωγή, Αξιοποίηση & Εμπορία Βιοκαυσίμων στην Ελλάδα». Ιδιότητα στο πρόγραμμα: Επιστημονικός Υπεύθυνος (Χρηματοδότηση, Υπουργείο Ανάπτυξης, Γενική Γραμματεία Έρευνας και Τεχνολογίας).
14. 2008-2010. « Integration of Farm Management Information Systems to support real-time management decisions and compliance of management standards-Future Farm». Ιδιότητα στο πρόγραμμα: Ερευνητής. (Research program founded by the European Commission, FP7, KBBE 2007-1-4-05).
15. 2009. «Πειραματική αξιολόγηση νέων θερμικών πλαστικών υλικών κάλυψης θερμοκηπίων» Ιδιότητα στο πρόγραμμα: Ερευνητής, (Χρηματοδότηση από Πλαστικά Κρήτης ΑΒΕΕ)
16. 2010-2012 «Sustainable use of irrigation water in the Mediterranean region – SIRRIMED». Ιδιότητα στο πρόγραμμα: Ερευνητής. (Research program founded by the European Commission, FP7, KBBE 2009-3).
17. 2010. «Ανάπτυξη λογισμικού θερμοδυναμικών ηλιακών συστημάτων». Κουπόνια Καινοτομίας για Μικρομεσαίες Επιχειρήσεις της Γενικής Γραμματείας Έρευνας & Τεχνολογίας (αρ. έγκρισης 36017963-01-000160). Ιδιότητα στο πρόγραμμα: Επιστημονικός Υπεύθυνος.
18. 2010. «Βελτιστοποίηση σχεδιασμού πράσινων οροφών». Κουπόνια Καινοτομίας για Μικρομεσαίες Επιχειρήσεις της Γενικής Γραμματείας Έρευνας & Τεχνολογίας. Ιδιότητα στο πρόγραμμα: Επιστημονικός Υπεύθυνος.
19. 2010-2012. «Ανάπτυξη ολοκληρωμένου συστήματος παρακολούθησης και διαχείρισης ποσότητας και ποιότητας υδατικών πόρων αγροτικών λεκανών απορροής υπό συνθήκες

- κλιματικής αλλαγής. Ιδιότητα στο πρόγραμμα: Ερευνητής. Εφαρμογή στη λεκάνη απορροής της λίμνης Κάρλας».
20. 2010-2012. «Βελτιστοποίηση Ελέγχου Περιβάλλοντος σε Καλλιέργειες υπό κάλυψη για διαχείριση της αλατότητας με αξιοποίηση ομικών τεχνολογιών» Ιδιότητα στο πρόγραμμα: Ερευνητής. (Χρηματοδότηση, Γενική Γραμματεία Έρευνας και Τεχνολογίας)
  21. 2011 – 2013. Smart technologies for controlled environment agriculture. Ιδιότητα στο πρόγραμμα: Ερευνητής. FP7, People, Marie Curie actions, IRSES.
  22. 2012-2015. Intelligent crop-based environmental monitoring and control of sustainable greenhouse eco-systems. Ιδιότητα στο πρόγραμμα: Ερευνητής (Χρηματοδότηση, Γενική Γραμματεία Έρευνας και Τεχνολογίας).
  23. 2012-2015. Assessment of techniques and technologies for reducing the environmental footprint of poultry facilities. Ιδιότητα στο πρόγραμμα: Συντονιστής (Χρηματοδότηση, Γενική Γραμματεία Έρευνας και Τεχνολογίας).
  24. 2013-2015. Translation network SME support in the animal breeding and horticulture sector. South East Europe. Ιδιότητα στο πρόγραμμα: Ερευνητής (Χρηματοδότηση South-East Interreg Europe)
  25. 2013-2015. Smart Integrated Livestock Farming: integrating user-centric & ICT-based decision support platforms. ). Ιδιότητα στο πρόγραμμα: Επιστημονικός Υπεύθυνος (Χρηματοδότηση EU, FP7, ICT-Agri-2)
  26. 2013-2015. Ανάπτυξη και αξιολόγηση καινοτόμων υλικών κάλυψης θερμοκηπίου. Ιδιότητα στο πρόγραμμα: Ερευνητής (Χρηματοδότηση, Γενική Γραμματεία Έρευνας και Τεχνολογίας).
  27. 2013-2015. Ευφυής Πόλος Εξειδίκευσης και Ανάπτυξης Θεσσαλίας: Έρευνα, Καινοτομία, Στρατηγικές. Ιδιότητα στο πρόγραμμα: Συντονιστής. (Χρηματοδότηση, Γενική Γραμματεία Έρευνας και Τεχνολογίας).
  28. 2013-2015. Online Professional Irrigation Scheduling – OIris. Ιδιότητα στο πρόγραμμα: Ερευνητής. (Χρηματοδότηση EU-FP7, KBBE-2013).
  29. 2014-2015. Αειφορικός σχεδιασμός προβατοστασίων. Ιδιότητα στο πρόγραμμα: Επιστημονικός Υπεύθυνος. (Χρηματοδότηση, Γενική Γραμματεία Έρευνας και Τεχνολογίας)
  30. 2016-2019. Bridging competence infrastructure gaps and speeding up growth and jobs delivery in regions – BRIDGES. Ιδιότητα στο πρόγραμμα: Επιστημονικός Υπεύθυνος (Χρηματοδότηση Interreg Europe).

31. 2019-2021. Ανάπτυξη συστήματος παραγωγής ορνίθιου κρέατος μειωμένου περιβαλλοντικού αποτυπώματος με πλήρη απουσία χρήσης αντιβιοτικών (Green poultry production, antibiotic free). (Χρηματοδότηση, Γενική Γραμματεία Έρευνας και Τεχνολογίας, ΕΔΚ)
32. 2019-2021. Ανάπτυξη ασύρματων αισθητήρων αερίων με χρήση ναυσοωλήνων άνθρακα και εφαρμογές στην προστασία αποθηκευμένων γεωργικών προϊόντων και τη διασφάλιση της ασφάλειας τροφίμων. (Χρηματοδότηση, Γενική Γραμματεία Έρευνας και Τεχνολογίας, Διμερής συνεργασία Ελλάδα-Γερμανία)
33. 2020-2022. Enabling Smart Livestock Farming Technologies for Environmental Sustainability using Blockchain (H2020-Era-Gas-ICT AGRI-Susan Joint Call 2018)
34. 2020-2022. Mitigating greenhouse gas emissions from livestock systems. (H2020-Era-Gas-ICT AGRI-Susan Joint Call 2018)
35. 2020-2022. Decision support system for sustainable and GHG optimized milk production in key European areas (H2020-Era-Gas-ICT AGRI-Susan Joint Call 2018)

### 2.3 ΔΙΟΙΚΗΣΗ

1. 2007-2013: Μέλος της επιτροπής αξιολόγησης εξοπλισμούς του Κέντρου Έρευνας Τεχνολογίας και Ανάπτυξης Θεσσαλίας
2. 2007- 2013: Επικεφαλής του Εργαστηρίου Γεωργικής Μηχανικής και Περιβάλλοντος του Κέντρου Έρευνας Τεχνολογίας και Ανάπτυξης Θεσσαλίας
3. 2012-2013: Επικεφαλής του Τμήματος Αγροτεχνολογίας του Κέντρου Έρευνας Τεχνολογίας και Ανάπτυξης Θεσσαλίας
4. 2012-2013: Μέλος του Διοικητικού Συμβουλίου του Κέντρου Έρευνας Τεχνολογίας και Ανάπτυξης Θεσσαλίας
5. 2013-2018. Μέλος του Τεχνικού Συμβουλίου του ΕΚΕΤΑ
6. 2016-2018: Αναπληρωτής Διευθυντής ΙΕΤΕΘ / ΕΚΕΤΑ
7. 2017- . Συντονιστής της πλατφόρμας καινοτομίας Αγροδιατροφής της Γενικής Γραμματείας Έρευνας και Τεχνολογίας
8. 2018 – Αντιπρόεδρος και συντονιστής των ακαδημαϊκών φορέων της Ελληνικής Τεχνολογικής Πλατφόρμας Τρόφιμων Food for Life
9. 2017- Πρόεδρος της Ένωσης Γεωργικών Μηχανικών Ελλάδας (ΕΓΜΕ)
10. 2019- Διευθυντής, Εργαστήριο Γεωργικών Κατασκευών, Γεωπονικό Πανεπιστήμιο Αθηνών

### 2.4 ΜΕΛΟΣ ΕΠΙΤΡΟΠΩΝ

1. 2013- 2018. Μέλος του Επιστημονικού Συμβουλίου του Ινστιτούτου Έρευνας και Τεχνολογίας Θεσσαλίας (ΙΕΤΕΘ-ΕΚΕΤΑ)
2. 2013- μέλος (με ρόλος συντονιστή) του θεματικού άξονα Αγροδιατροφή στο περιφερειακό πρόγραμμα RIS3 της Περιφέρειας Θεσσαλίας
3. 2014 – μέλος (εκπρόσωπος Ελλάδας) στην Ευρωπαϊκή πλατφόρμα αειφορικής παραγωγής κτηνοτροφικών προϊόντων (Animal Task Force)
4. 2015- μέλος της Ευρωπαϊκής Επιτροπής Καινοτομίας (European Innovation Partnership) στο θεματικό δίκτυο για τις εκδόμπες αερίων θερμοκηπίου από αγροτικές δραστηριότητες)
5. 2015 – Συντονιστής (Chair) του θεματικού δικτύου της διεθνούς κοινότητας οπωροκηπευτικών (International Society of Horticultural Sciences) στο τομέα Υπολογιστική Ρευστοδυναμική στη γεωργία
6. 2018- Μέλος του Περιφερειακού Συμβουλίου Καινοτομίας Θεσσαλίας

## 3 ΔΗΜΟΣΙΕΥΣΕΙΣ

### 3.1 ΔΙΑΤΡΙΒΕΣ

- [1] Θ. Μπαρτζάνας, 2004. Διαχείριση της υψηλής υγραμετρίας σε ελληνικά θερμοκήπια Διδακτορική διατριβή. Πανεπιστήμιο Θεσσαλίας, 2004, 258 σελίδες.
- [2] Θ. Μπαρτζάνας, 1998. Τύποι, εξοπλισμός, ενεργειακή αξιολόγηση και προτάσεις για την βελτίωση του εξοπλισμού των θερμοκηπίων της Μαγνησίας. Πτυχιακή διατριβή. Πανεπιστήμιο Θεσσαλίας, 1998, 84 σελίδες.

### 3.2 ΔΗΜΟΣΙΕΥΣΕΙΣ ΣΕ ΕΠΙΣΤΗΜΟΝΙΚΑ ΠΕΡΙΟΔΙΚΑ ΜΕ ΚΡΙΤΕΣ

#### 3.2.1 ΔΗΜΟΣΙΕΥΜΕΝΕΣ

- [3] C.Kittas, **T. Bartzanas**, A. Jaffrin, 2001. Greenhouse evaporative cooling. Measurements and Data Analysis. Transactions of the ASAE, 44(3), 683 - 689.
- [4] **T. Bartzanas**, T. Boulard, C. Kittas, 2002. Numerical simulation of airflow and temperature patterns in a greenhouse equipped with insect-proof screen. Computers and Electronics in Agriculture 34, 207 - 221.
- [5] C.Kittas, T. Boulard, **T. Bartzanas**, N. Katsoulas, M. Mermier, 2002. Influence of an insect screen on greenhouse ventilation. Transactions of the ASAE 45(4), 1083-1090.
- [6] C. Kittas, **T. Bartzanas**, A. Jaffrin, 2003. Temperature Gradients in a Partially Shaded large Greenhouse equipped with Evaporative Cooling Pads. Biosystems Engineering, 85 (1), 87-94.

- [7] **T. Bartzanas**, C. Kittas, 2003. Numerical investigation of the influence of ventilators configuration on greenhouse microclimate. *Geotechnical and Scientific Subjects*, 14 (4): 14- 23
- [8] **T. Bartzanas** C. Kittas, T. Boulard, 2004. Effect of vent arrangement on windward ventilation of a tunnel greenhouse. *Biosystems Engineering* 88 (4), 479-490
- [9] **T. Bartzanas**, M. Tchamitchian and C. Kittas, 2005. Influence of the heating method on greenhouse microclimate and energy consumption. *Biosystems Engineering*, 91 (4), 487-499
- [10] **T. Bartzanas**, N. Katsoulas, C. Kittas, T. Boulard, M. Mermier, 2005. Effect of Vent Configuration and Insect Screen on Greenhouse Microclimate. *International Journal of Ventilation*, 4 (3), 193-202
- [11] N. Katsoulas, **T. Bartzanas**, T. Boulard, M. Mermier, C. Kittas, 2006. Effect of Vent Openings and Insect Screens on Greenhouse Ventilation. *Biosystems Engineering*, 93 (4), 427-436.
- [12] C. Kittas and **T. Bartzanas**, 2007. Greenhouse Microclimate and Dehumidification Effectiveness under Different Ventilators Configuration. *Energy and Buildings*, 42 (10), 3774- 3784
- [13] **T. Bartzanas**, C. Kittas; A.A Sapounas, Ch. Nikita-Martzopoulou, 2007. Analysis of Airflow through Experimental Rural Buildings: Sensibility to Turbulence Models. *Biosystems Engineering*, 97 (2), 229-239
- [14] A.A. Sapounas, **T. Bartzanas**, C. Nikita – Martzopoulou, C. Kittas, 2008. Aspects of CFD modeling of Fan and Pad Evaporative Cooling System in Greenhouses. *International Journal of Ventilation*, 6 (4): 212-224.
- [15] N. Tadj, **T. Bartzanas**, B .Draoui, G. Theodoridis and C. Kittas, 2008. Convective heat transfer in a tunnel cultivated greenhouse. *International Journal of Applied Engineering Research*, 3(9): 1161-1168
- [16] N. Tadj, **T. Bartzanas**, B. Draoui, C. Kittas, 2008. Experimental and Numerical Investigation of Convective Heat Transfer in a Tunnel Greenhouse. *International Review of Mechanical Engineering*, 2 (6): 872-887
- [17] C. Kittas; N. Katsoulas, **T. Bartzanas**, Marie Mermier, Thierry Boulard, 2009. The impact of insect screens and ventilation openings on the greenhouse microclimate. *Transactions of the ASABE*, 51(6): 2151-2165
- [18] D.K. Papanastasiou, D. Melas, **T. Bartzanas**, C. Kittas, 2009. Temperature, comfort and pollution levels during heat waves and the role of sea breeze. *International Journal of Biometeorology*, 54(3):307-17
- [19] D. Fidaros, C. Baxevanou, **T. Bartzanas**, C. Kittas, 2010. Numerical simulation of thermal behavior of a ventilated arc greenhouse during a solar day, *Renewable Energy*, 35 (7): 1380-1386
- [20] N. Tadj, **T. Bartzanas**, D. Fidaros, B. Draoui, C. Kittas, 2010. Influence of Heating System on Greenhouse Microclimate Distribution, *Transactions of the ASABE*, 53 (1): 225-238

- [21] I.-H. Seo, I.-B. Lee, M.-H. Shin, G.-Y. Lee, H.-S. Hwang, S.-W. Hong, J. P. Bitog, J.-I. Yoo, K.-S. Kwon, Y.-H. Kim, **T. Bartzanas**, 2010. Development of a CFD Model to Predict the Diffusion of Fugitive Dust at the Reclaimed Land. *Transactions of the ASABE*, 53 (3): 891-901
- [22] **T. Bartzanas**, D.D. Bochtis, C.G. Sørensen, A.A Sapounas, 2010. A Numerical Modelling Approach on Biomass Field Drying. *Biosystems Engineering*, 106: 458-469
- [23] D. Bochtis, C.G. Sørensen, O. Green, **T. Bartzanas**, S. Fountas, 2010. Feasibility of a modelling suite for the optimised biomass harvest scheduling. *Biosystems Engineering*, 107 (4): 283-293
- [24] C. Baxevanou, D. Fidaros, **T. Bartzanas**, C. Kittas, 2010. Numerical simulation of solar radiation distribution in a naturally ventilated agricultural building. *CIGR E-Journal*, 12: 3-4: 58-69
- [25] D. Papanastasiou, D. Fidaros, **T. Bartzanas**, C. Kittas, 2011. Monitoring particulate matter levels and climate conditions in a Greek sheep and goat livestock building. *Environmental Monitoring and Assessment*, 183, 285 – 296
- [26] D.Bochtis, C. G. Sørensen, O. Green, **T. Bartzanas**, 2011. A diagnostic System for Improving Biomass Quality Based on a Sensor Network, *Sensors*, 11(5), 4990-5004
- [27] D. Papanastasiou, D. Melas, **T. Bartzanas**, C. Kittas, 2011. Estimation of ozone trend in central Greece based on meteorological adjusted time series. *Environmental Modeling & Assessment*, 17:353–361
- [28] C. Kittas, N. Katsoulas, N. Rigakis, **T. Bartzanas**, E. Kitta, 2012. Microclimate and tomato crop production and quality under shading nets. *Journal for Horticulture Science and Biotechnology*, 87 (1): 7-12
- [29] O. Green, **T. Bartzanas**, M.M. Løkke, O.J. Jørgensen, V. G. Tortajada, D.D. Bochtis, C.G. Sørensen, 2012. Spatial and temporal variation of temperature and oxygen concentration inside silage stacks. *Biosystems Engineering*, 111(2): 155-165
- [30] N. Katsoulas, T. Boulard, N. Tsiropoulos, **T. Bartzanas**, C. Kittas, 2012. Experimental and modelling analysis of pesticides fate from greenhouses: case of pyrimethanil on tomato crop. *Biosystems Engineering*, 113: 195-206
- [31] D.K. Papanastasiou, D. Fidaros, **T. Bartzanas**, C. Kittas, 2013. Impact of urban heat island development on buildings' energy consumption. *Fresenius Environmental Bulletin*, 22(7): 2087-2092
- [32] In-Bok Lee, Se-Woon Hong, Il-Hwan Seo, Jessie P. B. Kyeong-Seok Kwon, **T. Bartzanas**, T. Norton, 2013. The past, present and future of CFD for agro-environmental applications, *Computers and Electronics in Agriculture*, 98: 168-193
- [33] **T. Bartzanas**, M. Kacira, H. Zhu, S. Karmakar, E. Tamimi, N. Katsoulas, In Bok Lee, C. Kittas, 2013. Computational fluid dynamics applications to improve crop production systems. *Computers and Electronics in Agriculture*, 98: 151-167
- [34] **T. Bartzanas**, D.D. Bochtis, O. Green, C.G. Sørensen D. Fidaros, 2013. Prediction of quality parameters for biomass silage: a CFD approach, *Computers and Electronics in Agriculture*, 98: 209-216
- [35] **T. Bartzanas**, D.D. Bochtis, C.G. Sørensen, O. Green, 2013. Moisture content evaluation of forage grass using CFD approach, *Scientia Agrícola*, 69(5): 1-8

- [36] B. Bjerg, T. Norton, T. Banhazi, G. Zhang, **T. Bartzanas**, P. Liberati, G. Cascone, I.-B. Lee, A. Marucci, 2013. Modelling of ammonia emissions from naturally ventilated livestock buildings – Part one: Ammonia release modelling. *Biosystems Engineering*, 116(3), 232-245
- [37] B. Bjerg, P. Liberati, A. Marucci, G. Zhang, T. Banhazi, **T. Bartzanas**, G. Cascone, I.-B. Lee, T. Norton, 2013. Modelling of ammonia emissions from naturally ventilated livestock buildings – Part two: Air change modelling. *Biosystems Engineering*, 116(3): 246-258
- [38] B. Bjerg, G. Cascone, I.-B. Lee, **T. Bartzanas**, T. Norton, S.-W. Hong, I-H Seo, T. Banhazi, P. Liberati, A. Marucci, G. Zhang, 2013. Modelling of ammonia emissions from naturally ventilated livestock buildings – Part three: CFD modelling. *Biosystems Engineering*, 116(3): 259-275
- [39] D. K. Papanastasiou, **T. Bartzanas**, P. Panagakis, C. Kittas, 2014. Assessment of a typical sheep barn based on potential seasonal heat-stress of dairy ewes. *Applied Engineering in Agriculture*, 30 (6): 953-959
- [40] N. Katsoulas, D. Savvas, T. Bartzanas, C. Kittas C., 2015. Development of a decision support system (DSS) for model-based management of Na<sup>+</sup> accumulation in a semi-closed soilless cultivation of tomato. *Computers and Electronics in Agriculture*, 113: 61–71.
- [41] D.K. Papanastasiou, **T. Bartzanas**, C. Kittas, 2015. Classification of Potential Sheep Heat-Stress Levels According to the Prevailing Meteorological Conditions, *CIGR e- Journal*, Special Issue 57
- [42] E. Kitta, T. **Bartzanas**, N. Katsoulas, C. Kittas, 2015. Benchmark irrigated under cover agriculture crops. *Agriculture and Agricultural Science Procedia*, 4: 348–355
- [43] N. Rigakis, N. katsoulas, M. Teitel, **T. Bartzanas**, C. Kittas, 2015. A simple model for ventilation rate determination in screenhouses, *Energy and Buildings*, 87: 293-301.
- [44] S. Akdemir and **T. Bartzanas**, 2015. Numerical modelling and experimental validation of a cold store ambient factors, *Tarim Bilimleri Dergisi*, 21 (4): 606-619
- [45] D.K. Papanastasiou, **T. Bartzanas**, P. Panagakis, G. Zhang, C. Kittas, 2016. Study of heat-stress levels in naturally ventilated sheep barns during heat waves: development and assessment of regression models. *International Journal of Biometeorology*, 60:1637–1644
- [46] I. Giannenas, A. Karamoutsios, **T. Bartzanas**, A Tsinas, A. Tzora, I. Skoufos, 2016. Oregano and Sage essential oils improve antioxidant status of raw and cooked breast and thigh chicken meat. *Agro FOOD Industry Hi Tech* 27(4): 10-13
- [47] I. Skoufos, I. Giannenas, D. Tontis, **T. Bartzanas**, C. Kittas, P. Panagakis & A. Tzora, 2016. Effects of oregano essential oil and attapulgit on growth performance intestinal microbiota and morphometry in broilers, *South African Journal of Animal Science*, 46: 77-88
- [48] N. Katsoulas, D. Antoniadis, I. Tsirogiannis, E. Labraki, **T. Bartzanas**, C. Kittas, 2016. Microclimatic effects of planted hydroponic structures in urban environment: measurements and simulations. *International Journal of Biometeorology*, DOI 10.1007/s00484-016-1274-0
- [49] A. Elvanidi et al. , N. Katsoulas, **T. Bartzanas**, K.P. Ferentinos, C. Kittas, 2017. Crop water status assessment in controlled environment using crop reflectance and temperature measurements. *Precision Agriculture*, DOI 10.1007/s11119-016-9492-3

- [50] K.P. Ferentinos, N. Katsoulas, A. Tzounis, **T. Bartzanas**, C. Kittas, 2017. Wireless sensor networks for greenhouse climate and plant condition assessment. *Biosystems Engineering*, 153, 70-81.
- [51] I. Giannenas et al. , E. Bonos, V. Anestis, G. Filioussis, D. K. Papanastasiou, **T. Bartzanas**, N. Papaioannou, A. Tzora, I. Skoufos, 2017. Effects of Protease Addition and Replacement of Soybean Meal by Corn Gluten Meal on the Growth of Broilers and on the Environmental Performances of a Broiler Production System in Greece. *PLoS ONE* 12(1): e0169511. doi:10.1371/journal.pone.0169511
- [52] A. Tzora, I. Giannenas, N. Papaioannou, D. Papanastasiou, E. Bonos, S. Skoufos, T. Bartzanas,,I. Skoufos, 2017. Effects of Oregano, Attapulgit, Benzoic Acid and their Blend on Chicken Performance, Intestinal Microbiology and Intestinal Morphology, *Journal of Poultry Science*, 54:218-227
- [53] Tzounis, N.Katsoulas, **T. Bartzanas**, C. Kittas, 2017. Internet of Things in agriculture, recent advances and future challenges. *Biosystems Engineering*, 164:31-48
- [54] Fidaros, C. Baxevanou, A. Tsangarasoulis, T. Bartzanas, C. Kittas, 2017. Bioclimatic Reformation of Urban Area – A CFD Stud. *Procedia Environmental Sciences* 38: 586-594
- [55] D. Fidaros, C. Baxevanou, **T. Bartzanas**, C. Kittas, 2018. Numerical study of mechanically ventilated broiler house equipped with evaporative pads. *Computer and Electronics in Agriculture*, 149: 101-109
- [56] C. Baxevanou, D. Fidaros, **T. Bartzanas**, C. Kittas, 2018. Yearly numerical evaluation of greenhouse cover materials. *Computer and Electronics in Agriculture*, 149: 54-70
- [57] Elvanidi, N. Katsoulas, K.P. Ferentinos, **T. Bartzanas**, C. Kittas, 2018. Hyperspectral machine vision as a tool for water stress severity assessment in soilless tomato crop. *Biosystems Engineering*, 165: 25-35.
- [58] Manolakos D., Panagakis P., **Bartzanas T.**, Bouzianas K., 2019. Use of heat pumps in HVAC systems for precise environment control in broiler houses: System's modeling and calculation of the basic design parameters. *Computer and Electronics in Agriculture*, 163
- [59] Nakov, D., Hristov, S., Stankovic, B., Pol, F., Dimitrov, I., Ilieski, V., Mormede, P., Hervé, J., Terenina, E., Lieubeau, B., Papanastasiou, D.K., **Bartzanas, T.**, Norton, T., Piette, D., Tullo, E., van Dixhoorn, I.D.E., 2019. Methodologies for assessing disease tolerance in pigs. *rontiers in Veterinary Science*, 5: 329

### 3.3 ΚΕΦΑΛΑΙΑ ΒΙΒΛΙΩΝ

- [1] Fountas S; **Bartzanas T**; D. Bochtis, 2011. Emerging foot-print technologies in agriculture from field to farm gate. *Intelligent agrifood chains and networks*. Bourlakis M., Vlachos I., Zeimpekis V. Eds, Wiley-Blackwell, Oxford, 312pp, ISBN: 1405182997, DOI:10.1002/9781444339895
- [2] Sørensen C G; C. Kittas; **T. Bartzanas**; D. Bochtis, 2011. Minimizing environmental impact from applying selected inputs in plant production. *Environmental Management: Systems, Sustainability and Current Issues*, Dupont H. Editor, Nova Publishers, ISBN: 978-1-61324-899-7, 93-102, New York, USA

- [3] Kittas, C., Katsoulas, N., **Bartzanas, T.**, 2012. Greenhouse climate control in Mediterranean greenhouses. CUADERNOS DE ESTUDIOS AGROALIMENTARIOS. Lopez J.C., Torrente R.G. Eds | ISSN 2173-7568 | 89-114|
- [4] C. Kittas, N. Katsoulas, **T. Bartzanas**, S. Bakker, 2011. Greenhouse climate control and Energy use. In "Good agricultural practices (GAPs) principles for greenhouse vegetable production in the Mediterranean Region", Baudoin W., Castilla N., Qaryouti M. Eds, FAO publications, Rome, 2013, 63-96
- [5] T. Fronimos, M. Koutsoubelias, S. Lalis, **T. Bartzanas**, 2018. A Service-Based Approach for the Uniform Access of Wireless Sensor Networks and Custom Application Tasks Running on Sensor Nodes. In: Gravina R., Palau C., Manso M., Liotta A., Fortino G. (eds) Integration, Interconnection, and Interoperability of IoT Systems. Internet of Things (Technology, Communications and Computing). Springer, Cham

### 3.4 ΔΙΕΘΝΗ ΣΥΝΕΔΡΙΑ

- [1] C. Kittas, P. Giaglaras, **T. Bartzanas**, G. Gangas. Heating Energy Saving in Greenhouse for Ornamental Plant Production in Magnesia Region (GR). Proceedings of the conference "Energy and Agriculture towards the Third Millennium" v 2, p.872-879.
- [2] C. Kittas, G. Papadakis, P. Giaglaras, **T. Bartzanas**. Renewable Energy Sources and Energy Saving in Mediterranean. Proceedings of the conference "Energy and Agriculture towards the Third Millennium" v 2, p.912-926.
- [3] C. Kittas, A. Jaffrin, **T. Bartzanas**. Greenhouse Evaporative Cooling. Measurements and Data Analysis. Acta Horticulturae 534, 67-74.
- [4] **T. Bartzanas**, H. Fatnassi, D. Feidaros, C. Kittas. Investigation of Greenhouse Natural Ventilation using numerical methods (CFD). Proceedings of the 2nd National Conference of Agriculture Engineers, Volos, 2000, 366-373
- [5] **T. Bartzanas**, T. Boulard, C. Kittas, 2001. Numerical simulation of airflow and temperature patterns in a greenhouse equipped with insect-proof screen. Acta Horticulturae, 578: 351-358.
- [6] C. Kittas and **T. Bartzanas**, 2001. Prediction of temperature distribution in a large greenhouse equipped with evaporative cooling. International Symposium on Design and Environmental Control of Tropical and Subtropical Greenhouses, Taiwan, 15-18 April 2001.
- [7] **T. Bartzanas** and C. Kittas. Design optimization of heating and ventilation systems of greenhouse. Proceedings of 1st HAICTA's Conference, The Impact of ICT in Agriculture, Food and Environment, 6-7 June 2002 Athens pp 243-252.
- [8] **T. Bartzanas**, T. Boulard, C. Kittas. Analysis of greenhouse ventilation performance using computational fluid dynamic tools. Proceedings of International Conference on Agriculture Engineering AgEng2002, 30 June – 4 July 2002, Budapest, Hungary.
- [9] C. Kittas, **T. Bartzanas**, T. Boulard. Influence of the heating system on greenhouse microclimate during night time. AgEng2002, Budapest, Hungary, 30 June 30 - 4 July 2002.
- [10] **T. Bartzanas**, C. Kittas, 2002. Optimization of Greenhouse Heating using Numerical Methods. Proceedings of the 7th National Conference of Renewable Energy Sources, Patra, 2002.

- [11] **T. Bartzanas** and C. Kittas, 2004. Heat and Mass Transfer in a Large Evaporative Cooled Greenhouse Equipped with a Progressive Shading. GREENSYS2004, Leuven 2004., *Acta Horticulturae* 691: 624-635.
- [12] C. Kittas, **T. Bartzanas**, S. Tsalapatas, E. Tzanakaki, 2004. Training Young European Engineers on the Application of Renewable Energy Sources in Agriculture. Proceedings of 2nd HAICTA's Conference, Information Systems & Innovative Technologies in Agriculture, Food and Environment, 18-20 March, Thessaloniki 2004, pp 358-365.
- [13] N. Adritsos, N. Kolios, G. Karidakis, **T. Bartzanas**, 2004. Implementation of Geothermal Heat Pumps in Agriculture. Proceedings of the International Conference of "Geothermal Applications in Agriculture", Athens, 2004.
- [14] **T. Bartzanas**, T. Boulard, N. Katsoulas, M. Mermier and C. Kittas, 2005. Effect of Vent Configuration and Insect Screen on Greenhouse Microclimate. Proceedings of the 1<sup>st</sup> International Conference on Passive and Low Energy Cooling for the Built Environment, Palenc 2005, 19-21 May 2005 Santorini, Greece, Volume II: 1003-1008.
- [15] C. Kittas, T. Boulard, **T. Bartzanas**, M. Mermier and N. Katsoulas, 2005. Effect of Vent Openings and Insect Screens on Greenhouse Ventilation. Proceedings of the 1<sup>st</sup> International Conference on Passive and Low Energy Cooling for the Built Environment, Palenc 2005, 19-21 May 2005 Santorini, Greece, Volume I: 59-64.
- [16] M. Tchamitchian, C. Kittas, **T. Bartzanas** and Ch. Lykas, 2005. Daily Temperature Optimisation in Greenhouse by Reinforcement Learning. Proceedings of the 16<sup>th</sup> IFAC World Congress, 4-8 July 2005, Praha.
- [17] **T. Bartzanas**, N. Katsoulas, C. Kittas. Analysis of the Ventilation Performance of a Tunnel Greenhouse Using Computational Fluid Dynamics Tools. Proceedings of the conference for Integration of R.E.S. into the Buildings Structures, pp. 29- 34 July, 2005, Patra.
- [18] C. Kittas, **T. Bartzanas**, At. Sapounas. Numerical Analysis of Airflow through an Experimental Livestock Building: Sensibility to Turbulence Models. 4th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT2005), 19-22 September Cairo Egypt.
- [19] **T. Bartzanas**, N. Tadj, G. Theodoridis, C. Kittas. Numerical Analysis of Airflow through Porous Screens. Influence of Screens' Porosity. 4th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT2005), 19-22 September Cairo Egypt.
- [20] C. Kittas, At. Sapounas, **T. Bartzanas**. Prediction of Pesticides Emission and Dispersion from a Naturally Ventilated Greenhouse: a CFD approach. Proceedings of the XXXI CIOSTA-CIGR V Congress pp. 106- 114, 19-21 September 2005, Hohenheim, Germany.
- [21] N. Tadj, **T. Bartzanas**, C. Kittas, 2005. Convective Heat Transfer in a Heated from Soil Greenhouse Tunnel. International Symposium on Protected Culture in a Mild-Winter Climate, 19-24 February 2006 Agadir, Morocco
- [22] **T. Bartzanas** and C. Kittas Influence of vents' design on greenhouse microclimate during dehumidification with simultaneous heating and ventilation. International Symposium on Greenhouse Cooling: methods, technologies and plant response, 24-27 April 2006 Almeria Spain. *Acta Horticulturae* 719: 349- 356.
- [23] C. Kittas **T. Bartzanas**, N. Katsoulas and Numerical modelling of pesticides emission from a naturally ventilated greenhouse. International Symposium on Greenhouse Cooling: methods,

- technologies and plant response, 24-27 April 2006 Almeria Spain. *Acta Horticulturae* 719: 565-574.
- [24] C. Kittas, T. Boulard, **T. Bartzanas** N. Katsoulas, M. Mermier. Effect of vents' openings and insect screens on greenhouse ventilation. International Symposium on Greenhouse Cooling: methods, technologies and plant response, 24-27 April 2006 Almeria Spain. *Acta Horticulturae* 719: 615-622.
- [25] C. Kittas, T. Bartzanas, N. Katsoulas, A. Sapounas. Measurements and modelling of a tracer gas distribution in a naturally ventilated greenhouse for pesticides dispersion determination. 24-27 April 2006 Almeria Spain. *Acta Horticulturae*, 719:565-574
- [26] **T. Bartzanas**, A.A Sapounas, Ch. Nikita-Martzopoulou, C. Kittas, Applications of CFD on Agricultural Structures. Proceeding of the International Conference on: Information Systems in Sustainable Agriculture, Agro-environment and Food Technology, HAICTA 2006, Volos 20-23 September, Volos, Greece, 506- 514.
- [27] **T. Bartzanas**, A.A Sapounas, N. Katsoulas, C. Kittas. Dispersion of Pesticides from a Naturally Ventilated Greenhouse: a CFD approach. III International Symposium on Models for Plant Growth, Environmental Control and Farm Management in Protected Cultivation (HortiModel 2006). *Acta Horticulturae* 718: 307- 314.
- [28] S.Gialis, **T. Bartzanas**, Ch. Tselios, L. Toullos, C. Kittas. GIS as a Decision Support Tool for Protected Cultivations Planning. Accepted for Poster Presentation in the 6<sup>th</sup> European Conference on Precision Agriculture, 3-6 June 2007, Skiathos, Greece.
- [29] Sapounas, Ch. Nikita – Martzopoulou, **T. Bartzanas**, C. Kittas. Numerical Simulation of Fan and Pad Evaporative Cooling System of an Experimental Greenhouse with Tomato Crop. 35th International Symposium "Actual Tasks on Agricultural Engineering", 19-23 February 2007, Croatia.
- [30] Kittas, N. Katsoulas, At. Sapounas, **T. Bartzanas**. Distribution of a Tracer Gas in Naturally Ventilated Greenhouse for Pesticides Dispersion Determination. 2nd Palenc Conference and 28th AIVC Conference "Building low energy cooling and advanced ventilation technologies in the 21<sup>st</sup> century", 27-29 September 2007, Crete Island, Greece.
- [31] **T. Bartzanas**, N. Tadj, C. Kittas. Influence of vents type arrangement on greenhouse thermal driven ventilation. 2nd Palenc Conference and 28th AIVC Conference "Building low energy cooling and advanced ventilation technologies in the 21st century", 27-29 September 2007, Crete Island, Greece.
- [32] A.A. Sapounas, **T. Bartzanas**, Ch. Nikita – Martzopoulou, C. Kittas. Aspects of CFD modeling of Fan and Pad Evaporative Cooling System in Greenhouses. 2nd Palenc Conference and 28th AIVC Conference "Building low energy cooling and advanced ventilation technologies in the 21st century", 27-29 September 2007, Crete Island, Greece.
- [33] N. Katsoulas, **T. Bartzanas**, Ch. Manolaraki, C. Kittas. Effect of anti-drip greenhouse cover materials on microclimate and production of a hydroponic cucumber crop. International Confernece GreenSys 2007, 4-6 October 2007, Naples, Italy.
- [34] D. Fidaros, C. Baxevanou, **T. Bartzanas**, C. Kittas. Thermal behaviour of a tunnel arc greenhouse during a solar day. International Conference GreenSys 2007, 4-6 October 2007, Naples, Italy.

- [35] C. Kittas, **T. Bartzanas**, A. Sapounas, N. Katsoulas, N. Tsiropoulos. Numerical modelling and experimental measurements of pesticides dispersion in a naturally ventilated greenhouse. International Conference GreenSys 2007, 4-6 October 2007, Naples, Italy.
- [36] **T. Bartzanas**, N. Tadj, B. Draoui, C. Kittas. Numerical and experimental analysis of convective heat transfer in a greenhouse. International Conference GreenSys 2007, 4-6 October 2007, Naples, Italy.
- [37] C. Baxevanou, **T. Bartzanas**, D. Fidaros, C. Kittas. Solar radiation distribution in a tunnel greenhouse. International Conference GreenSys 2007, 4-6 October 2007, Naples, Italy.
- [38] **T. Bartzanas**, C. Baxevanou, D. Feidaros, C. Kittas. Microclimate patterns under different shading nets. 1st European Horticulture Conference, 1-2 February 2008, Vienna Austria.
- [39] S. Gialis, **T. Bartzanas**, C. Tselios, L. Toullos, C. Kittas Assessing the possibility of biomass use on greenhouse heating using GIS. 1st European Horticulture Conference, 1-2 February 2008, Vienna Austria.
- [40] C. Kittas, N. Rigakis, N. Katsoulas, **T. Bartzanas**. Influence of shading screens on microclimate and growth of a tomato crop. Strategies Towards Sustainability of Protected Cultivation in Mild Winter Climate. April 6-11, 2008, Antalya, Turkey
- [41] **T. Bartzanas**, D. Fidaros, C. Baxevanou, N. Katsoulas, C. Kittas. Improving the Efficiency of Insect Screens in Greenhouses. Strategies Towards Sustainability of Protected Cultivation in Mild Winter Climate. April 6-11, 2008, Antalya, Turkey
- [42] D. Syrivelis, N. Katsoulas, D. Papanastasiou, **T. Bartzanas**, C. Kittas. A network framework to exploit meteorological data for sustainable agriculture. International Advanced Workshop on Information and Communication Technologies for Sustainable Agri-production and Environment (AWICTSAE 2008), Alexandroupolis, Greece, 22 – 23 of May, 2008
- [43] C. Kittas, **T. Bartzanas**, K. Peponakis. ThessalyFood, A Regional Technological Platform for Food: Aims and Actions AgEng2008 International Conference on Agricultural Engineering & Industry Exhibition, 23-25 June 2008, Hersonissos Creta, Greece
- [44] D.K. Papanastasiou, **T. Bartzanas**, C. Kittas. Ozone levels in central Greece: trend and impacts on agriculture. AgEng2008 (International Conference on Agricultural Engineering & Industry Exhibition), Crete, Greece, 23 – 25 of June, 2008
- [45] **T. Bartzanas** and C. Kittas. Influence of heating system on greenhouse microclimate and crop activity. AgEng2008 (International Conference on Agricultural Engineering & Industry Exhibition), Crete, Greece, 23 – 25 of June, 2008
- [46] C. Baxevanou, D. Fidaros, **T. Bartzanas**, C. Kittas. Ammonia emission from a livestock building. AgEng2008 (International Conference on Agricultural Engineering & Industry Exhibition), Crete, Greece, 23 – 25 of June, 2008
- [47] N. Tsiropoulos, A. Papadi-Psyllou, N. Katsoulas, K. Kravvariti, **T. Bartzanas**, T. Boulard and C. Kittas, 2008. Measurements of pyrimethalin residues in the greenhouse air after low volume spray application. Proceedings of the 5th European Conference on Pesticides and related micropollutants in the environment, 22-25 October 2008, Marseille, France, Pesticides 2008 pp: 73-77.
- [48] D. Fidaros, C. Baxevanou, **T. Bartzanas** and C. Kittas. Flow characteristics and temperature patterns in a fan ventilated greenhouse. Acta Horticulturae 2008, 797: 123-130.

- [49] Sapounas, **T. Bartzanas**, Ch. Nikita-Martzopoulou and C. Kittas. Fan and Pad Evaporative Cooling System for Greenhouses: Evaluation of a Numerical and Analytical Model. *Acta Horticulturae* 2008, 797: 131-137
- [50] Ch. Baxevanou, D. Fidaros, **T. Bartzanas**, C. Kittas. Numerical simulation of solar thermal load of a typical room with planted roof. 9th National Conference on Renewable Energy Sources, Pafos 26-28 March 2009, Cyprus
- [51] D. Fidaros, C. Baxevanou, **T. Bartzanas**, C. Kittas. Numerical simulation thermal behaviour of a ventilated arc greenhouse during a solar day. 9th National Conference on Renewable Energy Sources, Pafos 26-28 March 2009, Cyprus
- [52] C. Kittas, **T. Bartzanas**, N. Katsoulas. Greenhouse heating- challenges in the Mediterranean region in light of the increase in fuel prices: a review and current trends in Greece. 19th Agro Mashov Exhibition, Israel Trade Fairs and Convention Center, Tel Aviv, Israel 14-15 January 2009 (Invited presentation).
- [53] **T. Bartzanas**, D. Fidaros, N. Katsoulas, C. Kittas, T. Boulard. Experimental results and simulation analysis of climate distribution in a greenhouse with insect screens. *GreenSys 2009*, 14-19 June, 2009, Quebec Canada. *Acta Hort. (ISHS)* 893:597-604
- [54] Vatsanidou, **T. Bartzanas**, Ch. Papaioannou, C. Kittas. Efficiency of physical means of IPM on insect population control in greenhouse crops. *GreenSys 2009*, 14-19 June, 2009, Quebec Canada
- [55] N. Katsoulas, C. Kittas, D. Feidaros, **T. Bartzanas**. Study of a passive solar heating greenhouse crop grow gutter. *GreenSys 2009*, 14-19 June, 2009, Quebec Canada
- [56] D. Fidaros, C. Baxevanou, **T. Bartzanas**, C. Kittas. Analysis of flow patterns in a greenhouse with mechanically assisted ventilation. *GreenSys 2009*, 14-19 June, 2009, Quebec Canada
- [57] C. Kittas, N. Katsoulas, **T. Bartzanas**. Characterization and analysis of the effects of greenhouse climate control equipment on greenhouse microclimate and crop response, *GreenSys 2009*, 14-19 June, 2009, Quebec Canada.
- [58] S. Fountas, D.D. Bochtis, C.G. Sørensen, O. Green, R.N. Jørgensen, **T. Bartzanas**, 2010. Spatial-temporal management zones for biomass moisture. *International Conference of Precision Agriculture Colorado*, July 18–21, 2010.
- [59] C.G. Sørensen, D.D. Bochtis, O. Green, **T. Bartzanas**, 2010. Optimised biomass harvest scheduling and machinery performance. *ASABE 2010 - Annual International Meeting*, 20 Jun 2010 - 23 Jun 2010
- [60] E. Kitta, N. Katsoulas, D. Savvas, **T. Bartzanas**, 2010. Effect of shading on greenhouse energy balance and crop gas exchanges. *International Horticultural Congress*, Lisbon, Portugal, August 22-27 2010
- [61] C. Kittas, N. Katsoulas, **T. Bartzanas**, K. Papa, A. Thanasenaris, 2010. Improvement of greenhouse microclimate distribution by means of air mixing fans. *International Horticultural Congress*, Lisbon, Portugal, August 22-27 2010
- [62] N. Katsoulas, **T. Bartzanas**, C. Kittas, 2010. Microclimate distribution in a greenhouse cooled by a fog system. *International Horticultural Congress*, Lisbon, Portugal, August 22-27 2010

- [63] **T. Bartzanas**, N. Katsoulas, A. Tsouknidas, C. Kittas, 2010. Effect of two new cover materials on greenhouse energy consumption and cooling load. International Horticultural Congress, Lisbon, Portugal, August 22-27 2010
- [64] **T. Bartzanas**, C. Baxevanou, D. Fidaros, D. Papanastasiou, C. Kittas, 2010. Airborne particles and microclimate distribution in a livestock building. International Conference of Agricultural Engineering Towards Environmental Technologies – AgEng 2010, Clermont Ferrand 6-8 September France)
- [65] C. Kittas, N. Katsoulas, **T. Bartzanas**, N. Tsiropoulos, T. Boulard, 2010. Measurements and modelling of pesticides residues in the greenhouse air after low volume spray application. International Conference of Agricultural Engineering Towards Environmental Technologies – AgEng 2010, Clermont Ferrand 6-8 September France
- [66] D. Papanastasiou, **T. Bartzanas**, C. Kittas, 2010. Monitoring the urban heat island in a Greek coastal city. 5th European Conference on Energy Performance and Indoor Climate in Buildings & 1st Cool Roof Conference 29 September-1 October 2010, Rhodes Island, Greece
- [67] D. Fidaros, C. Baxevanou, D. Papanastasiou, **T. Bartzanas** & C. Kittas, 2010. Numerical investigation of particle pollutants reduction due to green roof. 5th European Conference on Energy Performance and Indoor Climate in Buildings & 1st Cool Roof Conference 29 September-1 October 2010, Rhodes Island, Greece
- [68] D. Fidaros, C. Baxevanou, **T. Bartzanas** & C. Kittas, 2010. . Estimation of the reduced cooling needs from a typical green roof. 5th European Conference on Energy Performance and Indoor Climate in Buildings & 1st Cool Roof Conference 29 September-1 October 2010, Rhodes Island, Greece
- [69] N. Katsoulas E. Kitta, **T. Bartzanas**, 2011. Effects of anti-drip polyethylene covering films on microclimate and production of a greenhouse tomato crop. GreenSys 2011, International Conference for Advanced technologies and management towards sustainable greenhouse ecosystems, 5-10 June 2011, Greece
- [70] E. Kitta, N. Katsoulas, **T. Bartzanas**, 2011. Influence of two new greenhouse covering materials on greenhouse microclimate and cooling load. GreenSys 2011, International Conference for Advanced technologies and management towards sustainable greenhouse ecosystems, 5-10 June 2011, Greece
- [71] **T. Bartzanas**, D. Fidaros, C. Baxevanou, C. Kittas, 2012. Climate distribution in a fan and pad evaporative cooled greenhouse: A CFD approach, AgEng-CIGR2012, Valencia, Spain
- [72] D. K. Papanastasiou, **T. Bartzanas**, P. Panagakis, C. Kittas, 2012. Preliminary findings on seasonal heat stress of sheep, AgEng-CIGR2012, Valencia, Spain
- [73] Katsoulas N., **Bartzanas T.**, Nikolaou Ch., Anagnostopoulos D., Kittas C. 2012. Use of polyethylene films with high reflection to NIR and low transmission to IR in greenhouses: effects on microclimate, energy saving and crop production, AgEng-CIGR2012, Valencia, Spain
- [74] C. Kittas, **T. Bartzanas**, N. Katsoulas, E. Kitta, A. Batilliani. Benchmarking of irrigated agriculture: the case of Thessaly-Greece, AgEng-CIGR2012, Valencia, Spain
- [75] **T. Bartzanas**, N. Katsoulas, C. Kittas, 2012. Solar radiation distribution in screenhouses: a CFD approach, ISHS Lightsym2012, The Netherlands
- [76] N. Rigakis, N. Katsoulas, E. Kitta, **T. Bartzanas**. Microclimate of a Pepper Crop under Screenhouse Conditions, ISHS Lightsym2012, The Netherlands

- [77] N. Katsoulas, C. Kittas, G. Kakavikaki, **T. Bartzanas**. Performance test of a Na<sup>+</sup> concentration model included in a decision support system for closed hydroponic systems management, HortiModel 2012, 04-08 November Nanjing, China
- [78] N. Katsoulas, N. Rigakis, E. Kitta, **T. Bartzanas**, A. Baille. Transpiration of a pepper crop under screenhouse conditions, HortiModel 2012, 04-08 November Nanjing, China
- [79] **T. Bartzanas**, D.D. Bochtis, C.G. Sørensen, O. Green, 2013. Application of Computational Fluid Dynamics (CFD) for Optimizing the Biomass Field Drying Process. CIOSTA2013, From effective to intelligent agriculture and forestry3 to 5 July 2013 - Billund, Denmark
- [80] N. Katsoulas, C. Kittas, **T. Bartzanas**, D. Savvas, 2013. Development and evaluation of a DSS for drainage management in semi-closed hydroponic systems. Acta Horticulturae, 1034: 509-516. (Proceedings of the ISHS International Symposium on Growing Media and Hydroponics-GroSci2013», June 17-21, 2013, Leiden, The Netherlands.)
- [81] Papanastasiou D.K., Zhang G., **Bartzanas T.**, Panagakis P., Norton T., Kittas C., Development of models to assess potential sheep heat-stress during heat waves. Joint European Conference on Precision Livestock Farming (EC-PLF 2013), 10 – 12 September, Leuven, Belgium. In: Berckmans D, Vandermeulen J. (eds), 2013, Precision Livestock Farming '13, 391 – 396
- [82] **Bartzanas T.**, Zhang G., Norton T., Wu W., Papanastasiou D.K., Kittas C. Numerical and experimental assessment of the airflow field and ventilation rates in a naturally ventilated free cubical cattle house with large openings. Joint European Conference on Precision Livestock Farming (EC-PLF 2013), 10 – 12 September, Leuven, Belgium. In: Berckmans D, Vandermeulen J. (eds), 2013, Precision Livestock Farming '13, 652 – 657.
- [83] N. Rigakis, N. Katsoulas, P. Belitsiotis, C. Kittas, T. Bartzanas, 2013. Pepper crop production under shading and insect proof screenhouses. Acta Horticulturae, 1037:599-604. (Proceedings of the ISHS International Symposium on «New Technologies for Environment Control, Energy saving and Crop Production in Greenhouses and Plant Factory - GreenSys2013», October 6-10, 2013, Jeju, Korea).
- [84] Katsoulas, N., Kittas, C., **Bartzanas, T.**, Savvas, D., 2013. Use of a decision support system for management of the drainage solution in semi-closed hydroponic systems under different drainage fractions. Proceedings of the ISHS International Symposium on «New Technologies for Environment Control, Energy saving and Crop Production in Greenhouses and Plant Factory - GreenSys2013», October 6-10, 2013, Jeju, Korea.
- [85] Fatnassi, H., Boulard, T., **Bartzanas, T.**, Katsoulas, N., Kacira, M., Poncet, C., 2013. CFD modeling of microclimate in the leaf boundary layer, ecological niche of pests. Proceedings of the ISHS International Symposium «New Technologies for Environment Control, Energy saving and Crop Production in Greenhouses and Plant Factory - GreenSys2013», October 6-10, 2013, Jeju, Korea.
- [86] E. Kitta, T. Bartzanas, A. Baille, 2013. Improving irrigation efficiency of protected agrosystems using benchmarking tools, Proceedings of the ISHS International Symposium «New Technologies for Environment Control, Energy saving and Crop Production in Greenhouses and Plant Factory - GreenSys2013», October 6-10, 2013, Jeju, Korea
- [87] Kittas, C., Katsoulas, N., **Bartzanas, T.**, Kacira, M., Boulard, T., 2013. Exposure of greenhouse workers to pesticides. Proceedings of the ISHS International Symposium «New Technologies for

Environment Control, Energy saving and Crop Production in Greenhouses and Plant Factory - GreenSys2013», October 6-10, 2013, Jeju, Korea.

- [88] **Bartzanas T.**, Baxevanou K., Fidaros D., Kacira M., Boulard T., Fatnassi H., Bournet P E., Roy J C., Katsoulas N., Kittas C. 2013. The use of User Define Functions in CFD applications in greenhouses. Invited presentation, International Symposium «New Technologies for Environment Control, Energy saving and Crop Production in Greenhouses and Plant Factory - GreenSys2013», October 6-10, 2013, Jeju, Korea).
- [89] C. Kittas, N. Katsoulas, **T. Bartzanas**, 2014. Energy needs and energy saving in Mediterranean greenhouses. *Acta Horticulturae*, 1054:25-30. (Proceedings of the ISHS International Conference on Agricultural Engineering, New Technologies for Sustainable Agricultural Production and Food Security, Muscat, Oman).
- [90] Baxevanou, D. Fidaros, **T. Bartzanas**, C. Kittas, 2014. Energy consumption in poultries – energy audits in Greece. Proceedings of the International Conference of Agriculture Engineers, AgEng2014, Zurich 6-10 July 2014
- [91] D. K. Papanastasiou, **T. Bartzanas**, C. Kittas, 2014. Relation between potential sheep heat-stress and meteorological conditions. Proceedings of the International Conference of Agriculture Engineers, AgEng2014, Zurich 6-10 July 2014
- [92] C. Kittas, A. Elvanidi, N. Katsoulas, K.P. Ferentinos, **T. Bartzanas**, 2014. Reflectance indices for the detection for water stress in greenhouse plant. XXIX International Horticultural Congress: IHC2014, 17-22 August 2014, Brisbane, Australia
- [93] K.P. Ferentinos, N. Katsoulas, **T. Bartzanas**, A. Tzounis, C. Kittas, 2014. A Climate Control Methodology Based on Wireless Sensor Networks in Greenhouses. XXIX International Horticultural Congress: IHC2014, 17-22 August 2014, Brisbane, Australia
- [94] N. Katsoulas, A. Elvanidi, K.P. Ferentinos, **T. Bartzanas**, C. Kittas, 2014. Calibration Methodology of a Hyperspectral Imaging System for Greenhouse Plant Water Stress Estimation 6th Balkan Symposium on Vegetables and Potatoes, September 29 – October 2, 2014 Zagreb, Croatia
- [95] E. Kitta, N. Katsoulas, **T. Bartzanas**, and C. Kittas, Sustainable use of irrigation water in the Mediterranean Region: Improvement of greenhouse water use efficiency 6th Balkan Symposium on Vegetables and Potatoes, September 29 – October 2, 2014 Zagreb, Croatia
- [96] Katsoulas, N., A. Elvanidi, K.P. Ferentinos, **T. Bartzanas**, C. Kittas. 2014. A hyperspectral imaging system for plant stress detection: calibration and preliminary results. 25th International Scientific - Experts Congress on Agriculture and Food Industry, September 25-27, Cesme-Izmir, Turkey.
- [97] V. Anestis, **T. Bartzanas**, C. Kittas, 2015. Life Cycle Inventory Analysis for a Commercial Dairy Cattle Producing Farm in Greece, 7<sup>th</sup> European Conference of Precision Livestock Farming, 15-19 September, Milan, Italy
- [98] D. K. Papanastasiou, **T. Bartzanas**, C. Kittas, 2015. Estimation of thermal stress indexes based on time series of 50 years. 7<sup>th</sup> European Conference of Precision Livestock Farming, 15-19 September, Milan, Italy
- [99] M. Marcousi, D. Fidaros, **T. Bartzanas**, 2015. Dispersion of aerial pollutants from poultry buildings, 7<sup>th</sup> European Conference of Precision Livestock Farming, 15-19 September, Milan, Italy

- [100] **T. Bartzanas**, V. Anestis, 2015. Life cycle assessment of livestock operations: Application on dairy milk production. Second DairyCare Conference
- [101] **T. Bartzanas**, N. Katsoulas, A. Elvanidi, K.P. Ferentinos, C. Kittas, 2015. Remote sensing for crop water stress detection in greenhouses, 10th European Conference on Precision Agriculture (ECPA), Tel-Aviv, July 12-16, 2015.
- [102] C. Kittas, D. Antoniadis, N. Katsoulas, I. Tsirogiannis, G. Varras, **T. Bartzanas**, 2015. Measurements and simulation of microclimatic effects of a horizontal hydroponic pergola. CEUR Workshop Proceedings, 1498, pp. 255-262.
- [103] N. Katsoulas, T. Bartzanas, C. Kittas, C, 2015 Online professional irrigation scheduling system for greenhouse crops. Proceedings of the ISHS International Symposium on Modelling for Horticulture- Model IT, 11-14 October 2015, Wageningen The Netherlands).
- [104] Katsoulas, N., K.P. Ferentinos, A. Tzounis, **T. Bartzanas**, C. Kittas. 2015. Spatially distributed greenhouse climate control based on wireless sensor network measurements. 5th Symposium on Applications of Modelling as an Innovative Technology in the Horticultural Supply Chain (Model-IT), October 11-14, Wageningen, The Netherlands.
- [105] Katsoulas, N., K.P. Ferentinos, A. Tzounis, **T. Bartzanas**, C. Kittas. 2015. Operation reliability of wireless sensor networks in greenhouse conditions. International Symposium on New Technologies and Management in Greenhouses (GreenSys 2015), July 19-23, Evora, Portugal.
- [106] Kittas, C., A. Elvanidi, K.P. Ferentinos, **T. Bartzanas**, N. Katsoulas. 2015. Crop temperature measurements for crop water status identification in greenhouses. International Symposium on New Technologies and Management in Greenhouses (GreenSys 2015), July 19-23, Evora, Portugal.
- [107] Kittas, C., Elvanidi, A., Katsoulas, N., Ferentinos, K.P., **Bartzanas, T.**, 2016. Reflectance indices for the detection of water stress in greenhouse tomato (*Solanum lycopersicum*). *Acta Horticulturae*, 1112, pp. 63-70.
- [108] Elvanidi, A., N. Katsoulas, **T. Bartzanas**, K.P. Ferentinos, C. Kittas. 2016. Assessment of crop water status by means of crop reflectance. 3rd International Symposium on Organic Greenhouse Horticulture (OGH 2016), April 11-14, Izmir, Turkey
- [109] **T. Bartzanas**, 2016. Applications of the CFD in the horticulture agrofood industry. International Conference of Agricultural Engineering, CIGR – AgEng 2016, 26 – 29 June, Aarhus, Denmark
- [110] Anestis V., **Bartzanas T.**, Papanastasiou D.K., Kittas C., 2016. Carbon footprint and energy use calculator for Greek intensive sheep and goat production processes. International Conference of Agricultural Engineering, CIGR – AgEng 2016, 26 – 29 June, Aarhus, Denmark.
- [111] Papanastasiou D.K., **Bartzanas T.**, 2016. Air quality and climate interactions in a naturally ventilated sheep barn under hot weather. International Conference of Agricultural Engineering, CIGR – AgEng 2016, 26 – 29 June, Aarhus, Denmark.
- [112] Anestis V., **Bartzanas T.**, Papanastasiou D.K., Kittas C., 2016. Environmental footprint calculator for intensive broiler production processes in Greece. 10th International Conference on Life Cycle Assessment of Food, 19 – 21 October, Dublin, Ireland.

- [113] T. Fronimos, S. Lalis, M. Koutsoubelias, **T. Bartzanas**, 2016. Unified service-oriented access for WSNs and dynamically deployed application tasks. Proceedings - 2016 IEEE 1st International Conference on Internet-of-Things Design and Implementation, IoTDI 2016
- [114] **Bartzanas, T.**, Fidaros, D., Baxevanou, C., Katsoulas, N., 2017. Precision modelling of distributed greenhouse climate (2017) CEUR Workshop Proceedings, 2030, pp. 232-236.
- [115] Liakos, K., Moustakidis, S., Tsiotra, G., **Bartzanas, T.**, Bochtis, D., Parisses, C., 2017. Machine learning based computational analysis method for cattle lameness prediction (2017) CEUR Workshop Proceedings, 2030, pp. 128-139.
- [116] A Vatsanidou, N. Katsoulas, **T. Bartzanas**, 2018. Environmental assessment of a close hydroponic greenhouse system. AgeEng 2018, July 1018, The Netherlands
- [117] V. Anestis, A. Vatsanidou, **T. Bartzanas**, 2018. Application of the EU Product Environmental Footprint (PEF) Methodology on the Supply Chain of Feta Cheese in Greece. 1st workshop on Environmentally Sound Livestock Production, LivAge COST Action
- [118] Katsoulas, N., Elvanidi, A., **Bartzanas, T.**, Ferentinos, K.P. and Kittas, C., 2018. Sensing crop reflectance for water stress detection in greenhouses. International Symposium on Sensing Plant Water Status - Methods and Applications in Horticultural Science. Acta Hort. 1197, 117-126
- [119] **T Bartzanas**, A. Vatsanidou, N. Katsoulas, 2018. Farm scale strategies for reducing the environmental footprint in intensive crop production systems. XXX International Symposium of Horticulture Science (ISHS), Istanbul 13-18 August 2018
- [120] **T Bartzanas**, A. Vatsanidou, N. Katsoulas, 2018. Environmental assessment of a close hydroponic greenhouse system. XXX International Symposium of Horticulture Science (ISHS), Istanbul 13-18 August 2018
- [121] **T. Bartzanas**, D. Fidaros, C. Baxevanou, N. Katsoulas, C. Kittas, 2018. Precision Modelling of Distributed Greenhouse Climate. XXX International Symposium of Horticulture Science (ISHS), Istanbul 13-18 August 2018
- [122] **T. Bartzanas**, A. Vatsanidou, N. Katsoulas, 2019. Assessing the sustainability of greenhouse crops using life cycle analysis tools. XI International Symposium on Protected Cutlivation in Mild Winter Climates & I International Symposium on Nettings and Screens in Horticulture, Tenerife Spain-Canary Islands), January 27-31, 219
- [123] **T. Bartzanas**, D. Fidaros, C. Baxevanou, 2019. Numerical evaluation of greenhouse's covering materials. . XI International Symposium on Protected Cutlivation in Mild Winter Climates & I International Symposium on Nettings and Screens in Horticulture, Tenerife Spain-Canary Islands), January 27-31, 219
- [124] **T.Bartzanas**, A. Pantazidis, M. Kontogianni, G. Profitiliotis, 2019. Controlled environment food production for space applications. GreenSys 2019 International Symposium on Advanced Technologies and Management for Innovative Greenhouses, Angers, France, 16-20 June 2019.
- [125] **T. Bartzanas**, A. Vatsanidou, N. Katsoulas, 2019. Farm scale strategies for reducing the environmental footprint in intensive crop production systems. GreenSys 2019 International Symposium on Advanced Technologies and Management for Innovative Greenhouses, Angers, France, 16-20 June 2019.

- [126] Bjerg, B., Demeyer, P., Hoyaux, J., Didara, M., Grönroos, J., Hassouna, M., Amon, B., **Bartzanas, T.**, Sándor, R., Fogarty, M., Klas, S., Schiavon, S., Juskiene, V., Radeski, M., Attard, G., Aarnink, A., Gülzari, Ş.Ö., Kuczyński, T., Fangueiro, D., Marin, M.P., Mihina, S., Verbič, J., Calvet, S., Jeppsson, K.-H., Menzi, H., Sizmaz, O., Norton, T., 2019. Review of legal requirements on ammonia and greenhouse gases emissions from animal production buildings in european countries. ASABE Annual International Meeting,2019
- [127] **T. Bartzanas**, A. Pantazidis, M. Kontogianni, G. Profitiliotis, 2019. Design and optimization of a vertical farming growth chamber for space farming applications. 2<sup>nd</sup> International Symposium for Vertical Farming Systems (VertiFarm2019), October 2019, Wageningen

### 3.5 ΕΘΝΙΚΑ ΣΥΝΕΔΡΙΑ

- [128] **T. Bartzanas**, P. Giaglaras, C.Kittas. Types, Equipment. Energetic Evaluation and potential Energy Saving in the Greenhouses of Magnesia Region(GR). Proceedings of the 1<sup>st</sup> National Conference of Agriculture Engineers, Athens 1999, 109-120
- [129] C.Kittas, A. Baille, **T. Bartzanas**. Mediterranean Greenhouses climate control. Practices and Perspectives. Proceedings of the 1st National Conference of Agriculture Engineers, Athens 1999, 195-208
- [130] N. Katsoulas, **T. Bartzanas**, C. Kittas. Experimental determination of total energy balance coefficient in a plastic greenhouse. Proceedings of the 1st National Conference of Agriculture Engineers, Athens 1999, 185-194
- [131] P. Giaglaras, **T. Bartzanas**, C. Kittas, 2000. Insects screens in greenhouse. Proceedings of the 2nd National Conference of Agriculture Engineers, Volos, 2000, 331-339
- [132] C. Kittas, N. Katsoulas, **T. Bartzanas**, P. Giaglaras, M. Karamanis, Ch. Lykas. Energetic evaluation of a greenhouse thermal screen. Proceedings of the 2nd National Conference of Agriculture Engineers, Volos, 2000, 221-228
- [133] **T. Bartzanas**, C. Kittas, 2001. New methods in greenhouse microclimate research. Proceedings of the 20th National Conference of Greek Society for Vegetables Production, Cyprus, 2001, 354-357
- [134] C. Kittas, H. Labropoulos, N. Katsoulas, **T. Bartzanas**, 2001. Influence of insect screens on greenhouse ventilation. Proceedings of the 20th National Conference of Greek Society for Vegetables Production, Cyprus, 2001, 346-349
- [135] **T. Bartzanas**, C. Kittas, 2003. Numerical and Experimental Investigation of Greenhouse Natural Ventilation. Proceedings of the 3rd National Conference of Agriculture Engineers, Thessaloniki, 2003, 370-378
- [136] C. Kittas, A. Kontes, **T. Bartzanas**, 2003. Humidity and Temperature Distribution in a Greenhouse Equipped with Evaporative Cooling System and Progressive Shading. Proceedings of the 3rd National Conference of Agriculture Engineers, Thessaloniki, 2003, 379-386
- [137] **T. Bartzanas**, C. Kittas, 2003. Microclimate Distribution on Heated Greenhouse with a Tomato Crop. Proceedings of the 21th National Conference of Greek Society for Vegetables Production, Ioannina, 2003

- [138] M Tchamitchian, **T. Bartzanas**, C. Kittas, 2004. Use of rose crop model to control air temperature in a heated greenhouse. Proceedings of the 26th National Conference of Greek Biology Sciences, Volos, 2004
- [139] C. Kittas, **T. Bartzanas**, A. Sapounas and N. Tsiropoulos, 2004. Modelling the dispersion and emission of pesticides from greenhouses: a CFD approach. 3rd European conference on Pesticides and Related Organic Micropollutants in the Environment. 7-10 October 2004, Xalkidiki, Greece
- [140] **T. Bartzanas** and C. Kittas. Influence of vent type on greenhouse dehumidification. Proceedings of the 4th National Conference of Agriculture Engineers Athens 6- 8 October 2005 pp. 1-9
- [141] C. Kittas, N. Katsoulas, **T. Bartzanas**. Effect of insect screens and vent type on greenhouse ventilation rate. Proceedings of the 4th National Conference of Agriculture Engineers Athens 6- 8 October 2005 pp. 19-27
- [142] C. Kittas, **T. Bartzanas**, N. Katsoulas, A. Sapounas. Numerical modeling of the emission of a tracer gas inside and outside of a naturally ventilated greenhouse. Proceedings (in press) of the 22th National Conference of Greek Society for Vegetables Production, 19-21 Oktober Patra, Greece
- [143] N. Rigakis, **T. Bartzanas**, C. Kittas. Influence of different shading nets on microclimate and growth of a tomato crop. Proceedings (in press) of the 22th National Conference of Greek Society for Vegetables Production, 19-21 October Patra, Greece
- [144] C. Kittas, **T. Bartzanas**, 2005. Optimisation of a biophysical greenhouse model and application on energy saving during greenhouse heating. Proceedings of the 8th National conference for Renewable Energy Sources, 29-31 March 2006 Thessaloniki pp. 593-600
- [145] C. Kittas, N. Katsoulas, **T. Bartzanas**. Influence of air speed and direction on the concentration of a tracer gas inside a tunnel greenhouse. Proceedings (in press) of the 8<sup>th</sup> National Conference for Meteorology-Climatology-Atmospheric Physics, Volume A: 290- 297, 24-26 May 2006 Athens, Greece
- [146] **T. Bartzanas**, and C. Kittas. Rational humidity management in greenhouses using simultaneously heating and ventilation systems. 4th National Conference for Agricultural Engineers, 18-20 October 2007, Larissa, Greece
- [147] C. Baxevanou, D. Fidaros, **T. Bartzanas**, C. Kittas. Solar radiation distribution in a túnel greenhouse – A CFD study. 4th National Conference for Agricultural Engineers, 18-20 October 2007, Larissa, Greece
- [148] C. Kittas, N. Katsoulas, Ch. Manolaraki, **T. Bartzanas**, Effects of anti-drip cover materials on the microclimate of a greenhouse cultivated with a cucumber crop. 4th National Conference for Agricultural Engineers, 18-20 October 2007, Larissa, Greece
- [149] Ch. Manolaraki, N. Katsoulas, **T. Bartzanas**, C. Kittas. Growth and development of tomato and cucumber under anti drip greenhouse covers. 23th National Conference of Greek Society for Vegetables Production, 23-26 October 2007 Creta, Greece
- [150] Baxevanou, D. Fidaros, D. Papanastasiou, **T. Bartzanas**, C. Kittas. Numerical simulation of flow & transport phenomena in livestock building. 6th National Conference of Agriculture Engineer, Thessaloniki, 8-10 October 2009

- [151] D. Fidaros, A. Baxevanou, **T. Bartzanas**, C. Kittas. Numerical simulation of an empty room thermal behaviour with green roof. 6th National Conference of Agriculture Engineer, Thessaloniki, 8-10 October 2009
- [152] D. Papanastasiou, D. Fidaros, A. Baxevanou, **T. Bartzanas**, C. Kittas, 2009. Study of climate and airborne particles levels in a naturally ventilated livestock building. 6th National Conference of Agriculture Engineer, Thessaloniki, 8-10 October 2009
- [153] C. Kittas, N. Katsoulas, **T. Bartzanas**, Ch. Lykas, M. Tsetselidou. Study of a passive solar heating greenhouse crop grow gutter. 6th National Conference of Agriculture Engineer, Thessaloniki, 8-10 October 2009
- [154] **T. Bartzanas**, D. Fidaros, A. Baxavanou, N. Katsoulas, C. Kittas. Efficiency of insects screens on greenhouse crops. A numerical approach. 5th National Conference of Greek Society for Vegetables Production, 20-23 October 2009 Veroia, Greece
- [155] E. Kitta, N. Katsoulas, D. Savvas, **T. Bartzanas**. Influence of shading and salinity on heat and mass transfer in a hydroponic cucumber crop. 25th National Conference of Greek Society for Vegetables Production, 20-23 October 2009 Veroia, Greece
- [156] P. Dimitropoulos, D. Karabatzakis, E. Martini, N. Zarokostas, A. Zaxaris, **T. Bartzanas**, K. Kittas, 2011. Traceability of greenhouse products based on RFID technology. National Conference of Horticulture Science, Cyprus, November, 2011.
- [157] **T. Bartzanas**, E. Kitta, N. Katsoulas, A. Baille, 2011. Assessment of climate distribution under screenhouses. National Conference of Horticulture Science, Cyprus, November, 2011.
- [158] K. Kittas, **T. Bartzanas**, N. Katsoulas, N. Tsiropoulos. Distribution of pesticides in greenhouse environment. National Conference of Horticulture Science, Cyprus, November, 2011
- [159] **T. Bartzanas**, E. Kitta, N. Katsoulas, 2011. Effect of two new cover materials on greenhouse microclimate. 7th National Conference of Agriculture Engineer, Thessaloniki, 22-25 November 2011, Athens
- [160] Papanastasiou D.K., Zhang G., **Bartzanas T.**, Panagakis P., Kittas C., «Development of long time series of climate conditions inside livestock buildings – an application to study potential sheep heat-stress under hot weather». 8th National Conference of Greek Agriculture Engineering Society, 25-26 September, Volos, Greece, pp. 382-385
- [161] Papanastasiou D.K., **Bartzanas T.**, Panagakis P., Kittas C., «Seasonal variation of potential sheep heat-stress conditions inside a naturally ventilated barn. 8th National Conference of Greek Agriculture Engineering Society, 25-26 September, Volos, Greece, pp. 451 – 455
- [162] Papanastasiou D.K., **Bartzanas T.**, Kittas C., «Water needs of agriculture in the region of Thessaly in view of climate change. 8th National Conference of Greek Agriculture Engineering Society, 25-26 September, Volos, Greece, pp. 246 – 250
- [163] Kittas C., Tsiropoulos N., **Bartzanas T.**, Katsoulas N. 2013. Experimental evaluation of greenhouse workers after pesticide application. 8th National Conference of Greek Agriculture Engineering Society, 25-26 September, Volos, Greece
- [164] **T. Bartzanas**, N. Katsoulas, C. Kittas, 2013. Use of agriculture residuals for heating of rural buildings: application to greenhouse heating. Workshop for innovative methods for integrated use of agricultural residuals and by-products, CERTH conference center, 19-21 November 2013, Thessaloniki, Greece
- [165] D.Fidaros, C.Baxevanou, A.Tsagrasoulis, **T. Bartzanas** and C.Kittas, 2014. Simulation of transport phenomena in urban area, 10th National Conference for Renewable Energy Sources, Thessaloniki, 26-27 November 2014

- [166] D.Fidaros, C.Baxevanou, **T. Bartzanas** and C.Kittas, 2014. Comparative simulation of energy performance and assessment of poultry building, 10th National Conference for Renewable Energy Sources, Thessaloniki, 26-27 November 2014
- [167] M. Marcousi, D.Fidaros, C.Baxevanou, D. Papanastasiou, **T. Bartzanas** and C.Kittas, 2014. Numerical simulation of 3-D flow patterns in anisotropic topographies. 10th National Conference for Renewable Energy Sources, Thessaloniki, 26-27 November 2014
- [168] C. Baxevanou, D. Fidaros, **T. Bartzanas**, I. Skoufos, P. Panagakis C. Kittas, 2015. Energy consumption in broiler poultries – Energy audit protocol. 5th National Conference for Animal Technology, 30-31 January, Thessaloniki, Greece
- [169] D. Fidaros, C. Baxevanou, **T. Bartzanas**, I. Skoufos, P. Panagakis C. Kittas. Development and Validation of calculating tool for the assessment of poultries Energy Performance. 5th National Conference for Animal Technology, 30-31 January 2015, Thessaloniki, Greece
- [170] D.K. Papanastasiou, M. Frantzis, P. Panagakis, I. Skoufos, **T. Bartzanas**, A. Tzora, S. Skoufos, C. Kittas, 2015. Air quality in poultry houses. 5th National Conference for Animal Technology, 30-31 January, Thessaloniki, Greece
- [171] D.K. Papanastasiou, M. Frantzis, I. Skoufos, **T. Bartzanas**, A. Tzora, S. Skoufos, C. Kittas, 2015. Environmental conditions in a pig house. 5th National Conference for Animal Technology, 30-31 January 2015, Thessaloniki, Greece
- [172] **T. Bartzanas**, 2017. Techniques and technologies for the production of vegetables in controlled environment. 28th National Conference of Greek Horticulture Society, Thessaloniki, 16-20 October, 2017.
- [173] **T. Bartzanas**, 2017. Precision Livestock Technologies. 32th Annual Conference of Greek Society of Animal Husbandry, 4-6 October, Larisa.
- [174] **A. Vatsanidou**, T. Bartzanas, N. Katsoulas, 2019. Assessing the sustainability of greenhouse crops using life cycle analysis tools. National Conference of Hellenic Society of Agricultural Engineers, Volos, October 2019
- [175] **T. Bartzanas**, 2019. Applications of Computational Fluid dynamics in Precision crop farming. National Conference of Hellenic Society of Agricultural Engineers, Volos, October 2019
- [176] V. Anestis, A. Vatsanidou, **T. Bartzanas**, C. Kittas., 2019. Carbon footprint of the sheep & goat milk used for industrial feta cheese production in Greece. National Conference of Hellenic Society of Agricultural Engineers, Volos, October 2019

### 3.6 ΠΟΣΤΕΡΣ

- [177] C. Kittas, G.Papadakis, **T. Bartzanas**. Greenhouse Cooling. 1st National Floricultural Conference, Volos, 27-29 May 1998
- [178] G. Papadakis, C. Kittas, **T. Bartzanas**. Renewable Energy Sources. Possibilities for Implementation in Floriculture. 1st National Floricultural Conference, Volos, 27-29 May 1998
- [179] **T. Bartzanas**, C.Kittas, 2000. Numerical simulation (CFD) of greenhouse heating. Proceedings of 1st Southeastern Europe Fluent Users Group Meeting 20 October 2000, Thessaloniki, S5: 48-53
- [180] **T. Bartzanas**, C. Kittas. Improving greenhouse ventilation efficiency with computational fluid dynamics. 2nd Southeastern Europe Fluent Users Group Meeting, Bucharest 1-2 November 2001, Rumania.

- [181] **T. Bartzanas** and C. Kittas. Numerical simulations and validation of the airflow and temperature distribution in a tunnel greenhouse. 3rd Southeastern Europe Fluent Users Group Meeting, Thessaloniki, 2002.
- [182] C. Kittas, A. Vatsanidou, **T. Bartzanas**, D. Bliatsos. Specialization of National Certification Norms of agriculture production for greenhouse cultivations. Cretacert 2008, 2<sup>nd</sup> International Conference for quality and marketing of agriculture products, Creta, 25- 27 September, 2008, in Greek
- [183] C. Kittas, K. Peponakis, **T. Bartzanas**. Food Technological Platform of Thessaly. Cretacert 2008, Cretacert 2008, 2nd International Conference for quality and marketing of agriculture products, Creta, 25- 27 September, 2008

### 3.7 ΤΕΧΝΙΚΑ ΠΕΡΙΟΔΙΚΑ

- [184] C. Kittas, G. Papadakis, **T. Bartzanas**, 1999. Greenhouse Cooling. Agriculture and Animal Production, v 6, p23-32.
- [185] G. Papadakis, C. Kittas, **T. Bartzanas**. 2001. Implementation of Renewable Energy Sources in Greenhouses. Agriculture Technology, 2: 70-87.
- [186] C. Kittas, **T. Bartzanas**, 2003. Greenhouse Ventilation. Modern Technical Review 136, 56-60.
- [187] C. Kittas, **T. Bartzanas**, N. Katsoulas, 2004. Greenhouse Cooling. Modern Technical Review 144, 24-30.
- [188] C. Kittas, N. Katsoulas, **T. Bartzanas**, 2005. Greenhouse Cooling. Agriculture and Animal Production, v 5, p31-42.
- [189] **T. Bartzanas** and C. Kittas, 2006. Improving greenhouse ventilation openings design using CFD, Agriculture and Animal Production 7:38-45.
- [190] C. Kittas and **T. Bartzanas**, 2009. Food Technology Platform of Thessaly. Agriculture and Animal Production 1:76-78
- [191] C. Kittas, **T. Bartzanas**, N. Katsoulas. Greenhouses in Grece, 2011: Current trends and future perspectives, Agriculture and Animal Production 10:19-28
- [192] N. Katsoulas, **T. Bartzanas**, C. Kittas, 2011. Automation in greenhouses. Agriculture and Animal Production 10:38-45
- [193] N. Katsoulas, **T. Bartzanas**, C. Kittas, 2011. Energy saving and energy saving technologies in greenhouses. Agriculture and Animal Production 10: 54-57

### 3.8 ΔΙΑΧΥΣΗ ΑΠΟΤΕΛΕΣΜΑΤΩΝ (ΠΑΡΟΥΣΙΑΣΕΙΣ)

- [194] C. Kittas, **T. Bartzanas**. Greenhouse climate control. Workshop for new technologies for environmental friendly greenhouses, Technological Institution of Larisa, 16 December 2004.
- [195] C. Kittas and **T. Bartzanas**. Possibilities for using biomass resources in greenhouses. Workshop Biofuels and Environment, Technical Chamber of Greece, 28 January 2004
- [196] C. Kittas and **T. Bartzanas**. Use of biomass for greenhouse heating. Workshop of the Biofuels Technology Platform. Karditsa 15 December 2007

- [197] C. Kittas, N. Katsoulas, **T. Bartzanas**, 2008. Novel technologies for sustainable greenhouses. Workshop for the research activities in the University of Thessaly. 23 January 2008
- [198] C. Kittas, N. Katsoulas, **T. Bartzanas**. New technologies for environmental friendly greenhouses. Workshop for sustainable greenhouses in rural areas, 10 May 2008, Filiatra, Greece
- [199] C. Kittas and **T. Bartzanas**. Green Buildings: Influence on building microclimate. Workshop for environment, 5 November 2009 Volos, Greece
- [200] **T. Bartzanas**. Possibilities for RTD support in the SMEs. Workshop in the framework of the 1<sup>st</sup> EU week for innovation and technology, Volos, 3 June 2010
- [201] C. Kittas and **T. Bartzanas**. The role of green roofs and green areas in the reduction of aerial pollution in cities. Workshop of the chamber of Greek Architectures 16 April 2010
- [202] C. Kittas, N. Katsoulas, **T. Bartzanas**. Protected cultivation for sustainable rural development. 2<sup>nd</sup> Regional Conference of Karditsa, 19-21 February 2010, Karditsa
- [203] **T. Bartzanas**. D. K Papanastasiou, D. Fidaros, C. Baxevanou, S. Tsiantou, C. Kittas. Sustainable green roof systems for energy and pollution reduction. Workshop for green roofs systems, Athens 13 May 2010
- [204] C. Kittas, N. Katsoulas, **T. Bartzanas**. Energy and water saving in greenhouse crops. Workshop for greenhouse growers, 24 May 2011, Almyros, Greece.
- [205] C. Kittas, N. Katsoulas, **T. Bartzanas**. New trends In greenhouse construction. Workshop for greenhouse growers, 8 September 2011, Ellasona, Greece.
- [206] **T. Bartzanas**, N. Katsoulas, C. Kittas. An integrated web-based platform for rational water use in irrigated agriculture. Workshop for horticulture industry, 22 March 2012, Vestino,, Greece.
- [207] **T. Bartzanas**. Reducing the environmental footprint livestock industry. Workshop of TEI of Epirus for regional innovation, Arta, 5 April 2013
- [208] **T. Bartzanas**. Agrofood Clusters & Regional Development. 1st Workshop of Transnational Network for SME support in the animal breeding and horticulture sector» Bucharest, Romania 5-7 May 2013
- [209] **T. Bartzanas**. Effective approaches for technology and innovation transfer to SMEs. 3rd Workshop of Transnational Network for SME support in the animal breeding and horticulture sector» Aigio Greece, 4-6 September 2013
- [210] **T. Bartzanas**. Design and development of ifarma: a farm management application for mobile devices. 4th Workshop of Transnational Network for SME support in the animal breeding and horticulture sector» Tirana, Albania, 21-23 October 2013
- [211] **T. Bartzanas**. Effective support approaches to assess entering new markets, meeting European quality standard, promotion of products and facilitate the internationalisation of SMEs. 5th Workshop of Transnational Network for SME support in the animal breeding and horticulture sector» Ruse, Bulgaria, 11-12 Ruse, Bulgaria 2013
- [212] C. Kittas, **T. Bartzanas**, N. Katsoulas, 2014. Greenhouse crops in Greece: Technological trends and needs. Workshop for the competitiveness of Greek Agriculture Sector, Embassy of Netherlands in Greece, 31 March, 2014, Athens, Greece

### 4.1 ΚΡΙΤΗΣ ΕΠΙΣΤΗΜΟΝΙΚΩΝ ΠΕΡΙΟΔΙΚΩΝ

- Journal: **Agriculture and Forest Meteorology**, Elsevier
- Journal: **Biosystems Engineering**, Elsevier
- Journal: **Computers and Electronics in Agriculture**, Elsevier
- Journal: **International Journal of Heat and Mass transfer**, Elsevier
- Journal: **Transactions of the ASABE**, ASABE org
- Journal: **Applied Engineer in Agriculture**, ASABE org
- Journal: **European Journal of Horticulture Science**, German Society for Horticultural Science
- Journal of **Zhejiang University**, Zhejiang University
- Journal: **Agricultural Engineering International: the CIGR Journal**
- Journal: **Solar Energy**, Elsevier
- Journal: **Sensors**, MDPI
- Journal: **Agronomy**
- Journal: **Energy and Buildings**
- Journal of **Cleaner Production**
- **African Journal of Biotechnology**
- **Scientia Agricola**

### 4.2 ΠΡΟΕΔΡΕΙΟ ΣΕ ΣΥΝΕΔΡΙΑ

- 2007: 2nd Palenc Conference and 28th AIVC Conference “Building low energy cooling and advanced ventilation technologies in the 21st century. Session: Natural Ventilation Systems
- 2008: AgEng2008 International Conference on Agricultural Engineering & Industry Exhibition, 23-25 June 2008, Hersonissos Creta, Greece. Προεδρείο στις θεματικές Session: Renewable Energy II
- 2008: AgEng2008 International Conference on Agricultural Engineering & Industry Exhibition, 23-25 June 2008, Hersonissos Creta, Greece. Session: Microclimate in Greenhouses
- 2009: International Symposium on High Technology for Greenhouse Systems GreenSys 2009, Quebec, Canada, 14-19 June 2009. Session: CFD

- 2009: 6th National (Greek) conference of Agricultural Engineers. Session: Numerical Models
- 2011: Advanced technologies and management towards sustainable greenhouse ecosystems-GreenSys2011. Session: CFD
- 2011: Advanced technologies and management towards sustainable greenhouse ecosystems-GreenSys2011. Session: CFD
- 2011: 7th National Conference of Agriculture Engineer, 23-25 November, Athens: Session: Agricultural Constructions – Energy
- 2013: 8th National Conference of Agriculture Engineer, 25-27 September, Volos, Greece: Session: Agricultural Constructions
- 2013: International Symposium «New Technologies for Environment Control, Energy saving and Crop Production in Greenhouses and Plant Factory - GreenSys2013», October 6-10, 2013, Jeju, Korea).Session - CFD
- 2015: 7<sup>th</sup> International Conference for Precision Livestock Farming, 15-18 September, Milano, Italy
- 2016: CIGR - AgEng joint conference, 26 – 29 June, Aarhus, Denmark, Session CFD
- 2017: 8<sup>th</sup> European Conference on Precision Livestock Farming (EC-PLF), Nante, France. Session: Dust and Ventilation for pigs/chickens / Session: Emissions
- 2018: XXX ISHS Conference. Session: Greenhouse Structures

### 4.3 ΕΠΙΣΤΗΜΟΝΙΚΕΣ ΟΡΓΑΝΩΣΕΙΣ

#### 4.3.1 ΜΕΛΟΣ ΣΥΜΒΟΥΛΙΟΥ

- 2009-2011. Board Member of the Greek agricultural engineering society (**GrAgEng**-Greek Branch of the EuAgEng)
- Member of the management committee in the DairyCare COST action ([www.dairycare.org](http://www.dairycare.org))
- Member of the management committee in the COST action GroupHouseNet
- Member and vice chair of the management committee in the COST action LivAge

#### 4.3.2 ΜΕΛΟΣ

- **EurAgEng** - European Society of Agricultural Engineers
- **ISHS**, International Society of Horticulture Science (ISHS)
- **EIP-AGRI**, Member of the Expert Focus Group, Livestock Emissions
- **Animal Task Force**, Representing Greece, CERTH

#### 4.3.3 ΣΥΝΤΟΝΙΣΤΗΣ

- **2015- CFD WG – ISHS.** Chair of CFD working group under the auspices of International Society of Horticulture Science (ISHS)
- **2016-σήμερα.** Συντονιστής της ελληνικής πλατφόρμας καινοτομίας Αγροδιατροφής που εποπτεύεται από τη ΓΓΕΤ
- **2017- σήμερα.** Συντονιστής / εκπρόσωπος της ακαδημαϊκής / ερευνητικής κοινότητας στην ελληνική τεχνολογική πλατφόρμα Food for Life. Αντιπρόεδρος στο Συμβούλιο καθοδήγησης.
- **2018- σήμερα.** Vice-chair στην ευρωπαϊκή δράση δικτύωσης COST LivAge για τις εκπομπές αερίων θερμοκηπίου και αμμωνίας από κτηνοτροφικά κτίρια

#### 4.4 ΠΡΟΣΚΕΚΛΗΜΕΝΕΣ ΟΜΙΛΙΕΣ (KEYNOTE)

- C. Kittas, **T. Bartzanas**, N. Katsoulas, 2009. Greenhouse heating- challenges in the Mediterranean region in light of the increase in fuel prices: a review and current trends in Greece. 19th Agro Mashov Exhibition, Israel Trade Fairs and Convention Center, Tel Aviv, Israel 14-15 January 2009
- C. Kittas, N. Katsoulas, **T. Bartzanas**, 2009. Characterization and analysis of the effects of greenhouse climate control equipment on greenhouse microclimate and crop response, GreenSys 2009, 14-19 June, 2009, Quebec Canada (invited presentation)
- C. Kittas, N. Katsoulas, **T. Bartzanas**, 2011. Effects of greenhouse climate control equipment on greenhouse microclimate and crop response. Protected Horticulture Advances and Innovations, Proceedings of 2011 and 2<sup>nd</sup> High-level International Forum on Protected Horticulture (invited presentation)
- **Bartzanas T.**, Baxevanou K., Fidaros D., Kacira M., Boulard T., Fatnassi H., Bournet P E., Roy J C., Katsoulas N., Kittas C. 2013. The use of User Define Functions in CFD applications in greenhouses. Invited presentation, International Symposium «New Technologies for Environment Control, Energy saving and Crop Production in Greenhouses and Plant Factory - GreenSys2013», October 6-10, 2013, Jeju, Korea).

#### 4.5 ΑΝΑΦΟΡΕΣ

Πηγή	Συνολικές αναφορές	h-index	Τελευταία ενημέρωση
Scopus	1444	20	12/12/2019
Google Scholar	2354	23	12/12/2019