

CURRICULUM VITAE

Yiannis Ampatzidis

PERSONAL INFORMATION

Name: Yiannis (Ioannis)

Surname: Ampatzidis

Year of birth: 1979

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Speciality : Agricultural Engineer, M.Sc., Ph.D.

STUDIES

- **PhD**, automations in precision farming and traceability (2010, *Grade:* Excellent).
Doctoral project: "Modeling and electronic monitoring of activities during manual harvested of specialty crops with application to precision farming and traceability".
 - **Master's degree** in Hydraulics, Soil Science and Agricultural Engineering (2005, *Grade:* 9.42/10).
MSc project: "Precise and Unfailing Positioning of Autonomous Agricultural Vehicles Using Kalman Filtering".
 - **Diploma (5 year-M.Sc. equivalent)** in Agricultural Sciences (2002, *Grade:* 6.88/10).
Major: Field Crops and Ecology.
 - **Diploma (5 year-M.Sc. equivalent)** in Agricultural Sciences (2008, *Grade:* 9.34/10).
Major: Hydraulics, Soil Science and Agricultural Engineering.
- All the above degrees have been received from Aristotle University of Thessaloniki (AUTH)

WORK EXPERIENCE

- **2013-Today:** Assistant Professor at the Department of Physics and Engineering, California State University, Bakersfield CA (September/2013-Today).
- **2011-2013:** Postdoctoral Research Associate and Co-Project Director (CO-PI), Center for Precision & Automated Agricultural Systems, Washington State University (10/January/2011 – 31/August/2013).
- **2009-2010:** Researcher in National Agricultural Research Foundation (NAGREF), Institute of Soil Science, Thessaloniki. (14/December/2009 – 14/March/2010).
- **2008-2010:** Research Committee AUTH. Project: "FutureFarm", FP7-KBBE-2007-1, Activity 2.1, Theme 2. Small Collaborative Project (1/January/2008 – 31/December/2010).

- 2006-2007: Research Committee AUTH. Project: “Development of an innovative system for water discharge measurement at the Strymonas river”. Subcontract from the GOULANDRIS Natural History Museum Greek Biotope / Wetland Centre, under the EU LIFE program (1/July/2006 – 31/August/2007).
- 2007-2008: Agronomist-manager in an agricultural company “AGIOS GEORGIOS E.P.E.” (sales of agrochemical, seeds, fertilizers, machinery; advising farmers).
- 2004: Agronomist of Organization of Greek Agricultural Insurances (summer 2004).

TEACHING EXPERIENCE

- 2013-Today: Assistant Professor at CSUB:
 - ENGR 160, Engineering Orientation (1 credit)
 - ENGR 161, Engineering Design (2 credits)
 - ENGR 240, Analytic Mechanics - Statics (5 credits)
 - ENGR 240, Analytic Mechanics - Dynamics (5 credits)
 - ENGR 244, Mechanics of Materials (5 credits)
 - ENGR 341, Engineering Principles of Agricultural Machines (3 credits)
 - ENGR 401, Senior Laboratory (1 credit)
 - ENGR 477, Precision Agriculture Technologies, UAVs and Robotics in Agriculture (4 credits)
 - ENGR 490, Senior Design (6 credits)
- 2009-2010: Adjunct assistant professor. Assignment of laboratory classes, Power Transmission of Off-Road Vehicles, at Technological Educational Institute of Larisa, School of Agricultural Technology, Department of Biosystems Engineering.
- 2006-2010: Adjunct assistant professor. Assignment of laboratory classes, Tractors and Farm Machinery, at Technological Educational Institute of Thessaloniki, School of Agricultural Technology, Department of Farm Management.
- 2005–2010: Adjunct assistant professor. Assignment of laboratory classes: a) *Farm Machinery*, b) *Farm mechanization*, c) *Principles in Automatic Control* and d) *Drainage*, at School of Agriculture (AUTH).

CSUB SERVICE

- FabLab Champion
- Member: Advisor to Engineering Sciences students
- Member: ABET committee
- Member: NSME Election Committee
- Member: Sustainability Committee
- Public outreach

CURRENT RESEARCH

- Unmanned Aerial Vehicle (UAV) - Drones
- Precision Agriculture technology and management
- In-field traceability and yield mapping systems for manually harvested produce (RFID, Barcodes etc.)
- Development and implementation of automated technologies for specialty crops production
- Farm mechanization
- Embedded programming (e.g. arduino)
- Modeling and control of processes in agriculture

- Autonomous vehicles in agriculture: motion planning, control and sensing
- In-field operations planning and logistics for agricultural machines

REVIEWER

- State Water Efficiency and Enhancement Program (SWEEP), California Department of Food and Agriculture (CDFA)
- PhD thesis examiner, University of Southern Queensland
- Italian Ministry of Education, University and Research (MIUR): (2 proposals/projects)
- Computers and Electronics in Agriculture (25 papers). **Member of the Editorial Advisory Board.**
- IEEE Transactions on Industrial Electronics (8 papers).
- Biosystems Engineering (3 papers)
- International Journal of Sustainable Agricultural Management and Informatics –IJSAMI (2 papers)
- HortScience (3 papers)
- HortTechnology (1 paper)
- The Journal of Horticultural Science and Biotechnology (1 paper)
- The Journal of Urban Forestry and Urban Greening (2 papers)
- Urban Forestry and Urban Greening (2 paper)
- 2014 International Horticultural Congress (6 papers)
- HAICTA Conference (4 papers)
- Southern California Conferences for Undergraduate Research (SCCUR) 2014 (6 papers)
- EGME Conference (2 papers)

AWARDS

- **2014 USDA E. Kika De La Garza Science Fellow**
- **2013 Certificate of Reviewing Excellence**, Computers and Electronics in Agriculture Journal
- **2013 ASHS Extension Publication Award winner** for the paper: "Training System Affects Sweet Cherry Harvest Efficiency" [HortScience 48(5):547-555]

ACTIVITIES

Member:

- Editorial Advisory Board Member of Computer and Electronics in Agriculture Journal.
- American Society of Agricultural and Biological Engineers (ASABE).
- California Faculty Association
- Hellenic and European Society of Agricultural Engineers (EFME, EurAgEng).
- European Federation for Information Technology in Agriculture, Food and the Environment (EFITA).
- **Membership Chair:** ASABE California-Nevada Section
- **Secretary:** ASABEITSC-318 Mechatronics and Biorobotics Committee

LANGUAGES

- Greek: Mother tongue
- English: Excellent

COMPUTERS

- Operating systems: Linux, Windows, full Microsoft Office suite.
- Programming Languages: Fortran, C/C++/C#; Embedded Programming (micocronrollers, e.g. arduino).
- Application Programs: Matlab, LabView, SAS, Origin, SPSS, ArcGIS, Erdas, Design tools (AutoCAD, TinyCAD, etc.), Macromedia (Flash, DreamWeaver), Visio.

SCHOLARSHIPS

- 2005-2009: Full scholarship from “State Scholarships Foundation”. Competition 2005 in the specialty “Automations in Precision Agriculture”. Duration: 42 months.
- 2004-2005: Erasmus program. The Royal Veterinary and Agricultural University (KVL), Copenhagen, Denmark. Duration: 6 months.

PUBLICATIONS/TALKS

- 12 Journal Papers
- 42 Papers in International Conference Proceeding
- 12 Papers in Greek Conference Proceedings
- 9 Invited Talks
- 8 Field Days/Talks

Grant proposals

- 30 proposals (details in “Grant proposals” document)

PUBLICATIONS

JOURNALS

1. **Ampatzidis, Y.G.**, Wortman R., Tan L., and Whiting, M., 2016. Cloud-Based Harvest Management Information System for Hand-Harvested Specialty Crops. *Computers and Electronics in Agriculture*, online.
2. Zhang L., **Ampatzidis Y.G.**, and Whiting M., 2015. Sweet Cherry Floral Organ Size Varies with Genotype and Temperature. *Scientia Horticulturae*, 182: 156-164.
3. **Ampatzidis Y.G.**, and Whiting M.D. 2013. Training system affects sweet cherry Harvest efficiency. *HortScience*, 45(5):547-555.
4. **Ampatzidis Y.G.**, Vougioukas S.G., Whiting M.D., and Zhang Q., 2014. Applying the Machine Repair Model to Improve Efficiency of Harvesting Fruit. *Biosystems Engineering*, 120 (April 2014), 25-33.
5. **Ampatzidis Y.G.**, Whiting M.D., Liu B., Scharf P.A. and Pierce F., 2013. Portable weighing system for monitoring picker efficiency during manual harvest of sweet cherry. *Precision Agriculture*, 14(2): 162-171.
6. **Ampatzidis Y.G.**, Whiting M.D., Scharf P.A. and Zhang Q., 2012. Development and evaluation of a novel system for monitoring harvest labor efficiency. *Computers and Electronics in Agriculture*, 88(2012), 85-94.
7. **Ampatzidis, Y.G.**, Zhang, Q. and Whiting, M. 2012. Comparing the efficiency of future harvest technologies for sweet cherries. *Acta Hort. (ISHS)* 965:195-198 http://www.actahort.org/books/965/965_26.htm
8. **Ampatzidis Y.G.**, Vougioukas S.G., and Whiting M.D., 2011. A wearable module for recording worker position in orchards. *Computers and Electronics in Agriculture*, 78(2), 222-230.
9. **Ampatzidis Y.G.** and Vougioukas S.G., 2009. Field experiments for evaluating the incorporation of RFID and barcode registration and digital weighing technologies in manual fruit harvesting. *Computers and Electronics in Agriculture*, 66(2), 166-172.
10. **Ampatzidis Y.G.**, Vougioukas S.G., Bochtis D.D. and Tsatsarelis C.A., 2009. A yield mapping system for hand-harvested fruits based on RFID and GPS location technologies: field testing. *Precision Agriculture* 10(1), 63-72.
11. Bochtis D., Vougioukas S., **Ampatzidis Y.**, and Tsatsarelis C., 2007. Field Operation Planning for Agricultural Vehicles: A Hierarchical Modeling Framework. *Agricultural Engineering International: the CIGR Journal of Scientific Research and Development*, Manuscript PM 06 021. Vol. IX. February, 2007.
12. Bochtis D., Vougioukas S., Tsatsarelis C., and **Ampatzidis Y.**, 2007. Optimal Dynamic Motion Sequence Generation for Multiple Harvesters. *Agricultural Engineering International: the CIGR Journal of Scientific Research and Development*, Manuscript ATOE 07 001. Vol. IX. July, 2007.

CONFERENCES/MEETINGS

1. Croney G., Ward J., and **Ampatzidis Y.**, 2016. Automated System Using Wireless Sensor Network and Fuzzy Logic for Irrigation and Energy Management. Second place award in ASABE California-Nevada poster competition, Tulare Ca, February 10th.
2. **Ampatzidis Y.**, Ward J., and Samara O., 2015. Autonomous System for Pest Bird Control in Specialty Crops using Unmanned Aerial Vehicles. In: Proceedings of the ASABE 2015, Annual International Meeting, July 26 – July 29, 2015, New Orleans, LA USA.
3. **Ampatzidis Y.**, Ward J., and Ramirez A., 2015. Autonomous Integrated Wireless Sensor Network Using Autonomous Unmanned Aerial Vehicles in Orchards. In: Proceedings of the ASABE 2015, Annual International Meeting, July 26 – July 29, 2015, New Orleans, LA USA.
4. Ramirez A., Ward J., and **Ampatzidis Y.**, 2015. Low-Cost Automatic Monitoring of Pest Insect Traps: Developing Phase 1. CSUB Student Research Competition (*1st place*), March 6, Bakersfield, CA.
5. Ward J., Salazar M., and **Ampatzidis Y.**, 2015. Lawnbot: Remote Controlled Lawn Mower. CSUB Student Research Poster Competition, April 16, Bakersfield, CA.
6. Ward J., Ramirez A., Samara O., and **Ampatzidis Y.**, 2015. Unmanned Aerial Vehicle and Sensor Network for Remote Sensing and Autonomous Data Acquisition. ASABE California-Nevada Section, February 11, Tulare, California, USA.
7. Nillo J., Hernandez E., Ilyas Z., Alvarado M., Morosa R., Santiago M., and **Ampatzidis Y.**, 2015. Solar Powered Lawnbot: Autonomous Lawn Mower. *Poster presentation* at the REVS-UP Program, CSUB, 7 August, Bakersfield CA, USA.
8. Ward J., Ramirez A., **Ampatzidis Y.**, and Jafarzadeh S., 2014. Autonomous Data Collection System Using Intelligent Unmanned Aerial Vehicles. Southern California Conferences for Undergraduate Research, CSU Fullerton, 22 November, Fullerton CA, USA.
9. Ramirez A., Ward J., **Ampatzidis Y.**, and Jafarzadeh S., 2014. UAV-based Wireless Sensor Network in Orchards. Southern California Conferences for Undergraduate Research, CSU Fullerton, 22 November, Fullerton CA, USA.
10. DeLeon E., Galloway K., Jafarzadeh S., and **Ampatzidis Y.**, 2014. Independent HVAC Vent Control System. Southern California Conferences for Undergraduate Research, CSU Fullerton, 22 November, Fullerton CA, USA.
11. Cook M., Jafarzadeh S., and **Ampatzidis Y.**, 2014. Home Energy Saving: A Monitoring Approach. Southern California Conferences for Undergraduate Research, CSU Fullerton, 22 November, Fullerton CA, USA.
12. Grewal G., Pyle A., Schallock W., Solis L., Ward J., and **Ampatzidis Y.**, 2014. Unmanned Aerial Vehicle –UAV– Research: Aerial Mapping and Data Acquisition System. Poster presentation at the REVS-UP Program, CSUB, 7 August, Bakersfield CA, USA.
13. **Ampatzidis G. Y.**, Wortman R., Haley R., Tan L., and Whiting M., 2014. Automatic and Cloud-Based Yield Mapping System for Hand-Harvested Fruit Crops. Accepted for oral presentation at the 29th International Horticultural Congress 2014 ICH Symposium: Mechanisation, Precision Horticulture & Robotics). 17-22 August, Queensland, Australia.

14. **Ampatzidis G. Y.** and Whiting M., 2014. A novel Portable System for Improving Accuracy of Reimbursement for Fruit Picking. 12th International Conference on Precision Agriculture (ICPA2014). July 20-23, Sacramento CA, USA.
15. **Ampatzidis G. Y.**, Haley R., Wortman R., Tan L., and Whiting M., 2013. Harvest Management Information System for Specialty Crops. In: Proceedings of the ASABE 2013, Annual International Meeting (paper number: 1596473), July 21 – July 24, 2013, Kansas City, Missouri, USA.
16. Tan L., Haley R., Wortman R., **Ampatzidis G. Y.** and Whiting M., 2013. An Integrated Cloud-Based Platform for Labor Monitoring and Data Analysis in Precision Agriculture. In: Proceedings of the IEEE 14th International Conference on Information Reuse & Integration (IRI2013). San Francisco CA, USA, August 14-16, 2013.
17. **Ampatzidis G. Y.** and Whiting M., 2013. A Novel Portable System for Reimbursing Fruit Pickers Individually and Accurately. Demonstration (and poster) at the 2nd CPAAS (Center for Precision and Automated Agricultural Systems) Expo, Prosser WA, USA, October 2.
18. Tan L., Haley R., Wortman R., **Ampatzidis G. Y.** and Whiting M., 2013. CropAuditor. 2nd CPAAS (Center for Precision and Automated Agricultural Systems) Expo, Prosser WA, USA, October 2 (poster).
19. **Ampatzidis G. Y.** and Whiting M., 2013. A Novel Portable System for Reimbursing Fruit Pickers Individually and Accurately. 7th Cherry International Symposium, 23-27 June, Plasencia, Spain (poster).
20. **Ampatzidis G. Y.**, J. Zhang, and Whiting M., 2013. Mechanical Pruning is Effective in Sweet Cherry Trained to the UFO Architecture. 7th Cherry International Symposium, 23-27 June, Plasencia, Spain (oral).
21. **Ampatzidis G. Y.**, Wortman R., Haley R., Tan L., and Whiting M., 2013. Novel System for Payroll and Harvest Logistics in Specialty Crops. Academic Showcase, March 29, Pullman WA, USA (poster).
22. **Ampatzidis G. Y.**, Adhikari B., Scharf P., Whiting M. and Zhang Q., 2012. Preliminary Testing of a System for Evaluating Picker Efficiency in Tree Fruit. In: Proceedings of the ASABE 2012, Annual International Meeting, July 29 – August 1, 2012, Dallas, Texas USA.
23. **Ampatzidis G. Y.**, Wortman R., Haley R., Tan L., and Whiting M., 2012. Harvest Management Information System. HortShow, December 3-5, Yakima WA, USA (poster).
24. **Ampatzidis G. Y.** and Whiting M., 2012. Mechanical Pruning Shows Promise for Sweet Cherry Trained to the UFO Architecture. ASHS Annual Conference. Abstract in proceedings. July 31 – August 3, 2012, Miami, Florida, USA.
25. **Ampatzidis G. Y.** and Whiting M., 2012. Tree Architecture Affects Labor Efficiency During Sweet Cherry Harvest. ASHS Annual Conference. Abstract in proceedings. July 31 – August 3, 2012, Miami, Florida, USA.
26. Zhang L., **Ampatzidis G. Y.** and Whiting M., 2012. Sweet Cherry Floral Organ Size Varies with Genotype and Temperature. ASHS Annual Conference. Abstract in proceedings. July 31 – August 3, 2012, Miami, Florida, USA.
27. **Ampatzidis G. Y.**, Whiting M. and Zhang Q., 2012. Comparing the Efficiency of Future Harvest Technologies for Sweet Cherry. International Symposium on Mechanical Harvesting & Handling Systems of Fruit and Nuts. Paper in proceedings. April 2-4, Lake Alfred, Florida, USA.

28. Whiting M., Zhang Q., Dhingra A., Allard R., Almenar E., Vince Bryan III, Grant J., Harte J., Long L., Oraguzie N., **Ampatzidis G. Y.**, Ross C., Seavert C., 2012. A Total Systems Approach to Developing a Sustainable Stem-free Sweet Cherry Production, Processing, and Marketing System. International Symposium on Mechanical Harvesting & Handling Systems of Fruit and Nuts. Abstract in proceedings. April 2-4, Lake Alfred, Florida, USA.
29. **Ampatzidis G. Y.**, Whiting M. and Zhang Q., 2012. A Novel System for Monitoring Labor Efficiency During Manual Harvest of Specialty Crops. Academic Showcase, Pullman WA (poster).
30. **Ampatzidis G. Y.**, Du X., Whiting M. and Zhang Q., 2011. UML Modeling for Mechanical Harvester Work Flow. ASHS Annual Conference. "ASHS-Science for Specialty Crops". Abstract in proceedings. September 25-28, Waikoloa, Hawaii.
31. **Ampatzidis G. Y.**, Vougioukas S. and Whiting M., 2011. Modeling Activities During Manual Fruit Harvesting: A Comparison of Processes in the U.S. and Greece. ASHS Annual Conference. "ASHS-Science for Specialty Crops". Abstract in proceedings. September 25-28, Waikoloa, Hawaii.
32. **Ampatzidis G. Y.**, Pierce F. and Whiting M., 2011. Portable Weighing System for Determining Harvest Efficiency. ASHS Annual Conference. "ASHS-Science for Specialty Crops". Abstract in proceedings. September 25-28, Waikoloa, Hawaii.
33. **Ampatzidis G. Y.**, Vougioukas S. and Whiting M., 2011. Simulation of Bin Loading Process During Manual Harvest of Specialty Crops Using the Machine Repair Model. In: Proceedings of the 5th International Conference on Information and Communication Technologies in Agriculture, Food and Environment (HAICTA 2011), Skiathos Island, Greece, September 8-11.
34. **Ampatzidis G. Y.** and Vougioukas G. S., 2010. An automated wearable system for real-time human position monitoring during manual fruit harvesting. In: Proceedings of the International Conference on Agricultural Engineering (AgEng 2010), Clermont-Ferrand, France, September 6-8.
35. **Ampatzidis Y.**, Tzelepis G. and Vougioukas S., 2008. A low-cost identification system for yield mapping during manual vine harvesting. In: Proceedings of the International Conference on Agricultural Engineering & Industry Exhibition (AgEng 2008), Hersonissos (Crete), Greece, 23-25 June.
36. **Ampatzidis Y.**, Vougioukas S., Bochtis D. and Tsatsarelis C., 2007. A yield mapping system for hand-harvested fruits based on RFID and GPS location technologies. In: Proceedings of the 6th ECPA Conference (European Conference on Precision Agriculture), Skiathos, Greece, 3-6 June 2007, pp. 273-279.
37. Bochtis D., Vougioukas S., **Ampatzidis Y.**, and Tsatsarelis C., 2007. On-line Coordination of Combines and Transport Carts during Harvesting Operations. In: Proceedings of the 6th ECPA Conference (European Conference on Precision Agriculture), Skiathos, Greece, 3-6 June 2007, pp. 715-721.
38. **Ampatzidis Y.**, Vougioukas S., Blackmore S. and Bochtis D., 2006. An Object- Oriented Asynchronous Kalman Filter with Outlier Rejection for Autonomous Tractor Navigation. In: Proceedings of the XVI CIGR World Congress (International Commission of Agricultural Engineering) Bonn, Germany (September 3-7).
39. **Ampatzidis Y.**, Vougioukas S. and Bochtis B., 2006. A Decomposition Framework for the Autonomous Navigation of Agricultural Vehicles. In: Proceedings of the International

- Conference HAICTA (Information Systems in Sustainable Agriculture, Agroenvironment and Food Technology), Volos, Greece (September 20-23), pp. 55-65.
40. Bochtis D., Vougioukas S., **Ampatzidis Y.** and Tsatsarelis C., 2006. System Architectures for Dynamic Planning and Coordination of Machines Performing Agricultural Operations. In: Proceedings of the International Conference HAICTA (Information Systems in Sustainable Agriculture, Agroenvironment and Food Technology), Volos, Greece (September 20-23), pp. 515-522.
 41. Gialamas Th. A., Bochtis D., **Ampatzidis Y.**, Kateris D., Gemtos Th. A., Tsatsarelis C. A., 2006. Tractor Stability Estimation Using Adjusting Testing- Bench. In: Proceedings of the International Conference HAICTA (Information Systems in Sustainable Agriculture, Agroenvironment and Food Technology), Volos, Greece (September 20-23), pp. 179-186.
 42. Vougioukas S., Sigrimis N., Arvanitis C. and **Ampatzidis Y.**, 2006. Nonlinear Model Predictive Path Tracking for Precision Guidance. In: Proceedings of the XVI CIGR World Congress (International Commission of Agricultural Engineering) Bonn, Germany (September 3-7).

GREEK CONFERENCES

1. **Ampatzidis Y.G.**, Du X., Chen D., Scharf P., Whiting M. and Zhang Q., 2011. Ανάπτυξη Μηχανικών Συστημάτων Συγκομιδής Κερασιών. Μέρος 1: Σύγκριση Δύο Τεχνολογιών (“Development of Mechanical Harvest Systems for Sweet Cherries. Part 1: Comparison of Two Potential Harvest Technologies”). Proceedings of the 7th Pan-Hellenic Conference on Agricultural Engineering (in Greek), Athens 24-27 November 2011.
2. Du X., **Ampatzidis Y.G.**, Chen D., Scharf P., Whiting M. and Zhang Q., 2011. Ανάπτυξη Μηχανικών Συστημάτων Συγκομιδής Κερασιών. Μέρος 2: Αξιολόγηση Τεχνολογίας Δόνησης των Δένδρων (“Development of Mechanical Harvest Systems for Sweet Cherries. Part 2: Preliminary Evaluation of Actuation Technology”). Proceedings of the 7th Pan-Hellenic Conference on Agricultural Engineering (in Greek), Athens 24-27 November 2011.
3. **Ampatzidis Y.G.** and Vougioukas S.G., 2011. Φορητό Σύστημα Συσχέτισης Εργάτη-Δένδρων κατά τις Καλλιεργητικές Φροντίδες και τη Χειροσυλλογή σε Οπωρώνες (“A Wearable System for Associating Workers to producing Tree(s) During Orchard Canopy Management and Fruit Harvest Operations”). Proceedings of the 7th Pan-Hellenic Conference on Agricultural Engineering (in Greek), Athens 24-27 November 2011.
4. **Ampatzidis Y.G.** and Vougioukas S.G., 2009. Ανάλυση Συστήματος Αναμονής κατά την Μέτρηση και Ταυτοποίηση της Παραγωγής Επιτραπέζιων Σταφυλιών στον Αγρό (“Queuing Systems Analysis During Yield Measurement and Identification of Table Grapes in the Field”). Proceedings of the 6th Pan-Hellenic Conference on Agricultural Engineering (in Greek).
5. **Ampatzidis Y.G.** and Vougioukas S.G., 2009. . Ανάπτυξη Λογισμικού για την Προσομοίωση της Παραδοσιακής Συγκομιδής Νωπών Καρπών Οπωροφόρων Δέντρων (“Software development for the manual fruit harvesting simulation”). Proceedings of the 6th Pan-Hellenic Conference on Agricultural Engineering (in Greek).
6. **Ampatzidis Y.G.**, Spanomitros A. and Xatzimpentelis D.X., 2009. Μηχανικός Εξοπλισμός των Ελληνικών Γεωργικών Εκμεταλλεύσεων (“Farm Machinery of Greek

- Agricultural Enterprises”). Proceedings of the 6th Pan-Hellenic Conference on Agricultural Engineering (in Greek).
7. **Ampatzidis Y.G.**, Vougioukas S.G. and Bochtis D.D., 2007. Ιχνηλασιμότητα Εντός Αγρού Κατά την Παραδοσιακή Συγκομιδή Οπωροφόρων Δέντρων με Χρήση RFID (“In Field Traceability During the Traditional Fruit Harvesting Using RFID Location Technologies”). Proceedings of the 5th Pan-Hellenic Conference on Agricultural Engineering (in Greek).
 8. **Ampatzidis Y.G.**, Tzelepis G.S. and Vougioukas S.G., 2007. Σύστημα Μέτρησης και Ταυτοποίησης της Παραγωγής Επιτραπέζιων Σταφυλιών κατά την Παραδοσιακή Συγκομιδή (“Yield Measurement and Identification System During the Traditional Fresh Vine Harvesting”). Proceedings of the 5th Pan-Hellenic Conference on Agricultural Engineering (in Greek).
 9. Bochtis D.D., Vougioukas S.G., **Ampatzidis Y.G.** and Tsatsareli C.A., 2007. Αξιολόγηση Συστημάτων Διαχείρισης Γεωργικών Μηχανημάτων με Ανάπτυξη Λογισμικού Στήριξης Αποφάσεων (“A decision support system development for the evaluation of machinery management systems”). Proceedings of the 5th Pan-Hellenic Conference on Agricultural Engineering (in Greek).
 10. Ntirogiannis A.G., **Ampatzidis Y.G.**, Bochtis D.D., Spanomitros I.A. and Tsatsareli C.A., 2007. Στοιχεία Διαχείρισης Μηχανημάτων Κύριας Κατεργασίας του Εδάφους (“Evaluation of Machinery Efficiency for Tillage Systems”). Proceedings of the 5th Pan-Hellenic Conference on Agricultural Engineering (in Greek).
 11. Kotsakioti C.C., Bochtis D.D., Spanomitros Y.A., **Ampatzidis Y.G.** and Tsatsareli C.A., 2007. Βαθμός Απόδοσης Μηχανημάτων Κοπής-Περιποίησης Χόρτου στον Αγρό (“Field efficiency for grass cutting-rating and baling operations”). Proceedings of the 5th Pan-Hellenic Conference on Agricultural Engineering (in Greek).
 12. **Ampatzidis Y.**, Vougioukas S. and Blackmore S., 2005. Ακριβής και Αδιάλειπτος Υπολογισμός Θέσης Αυτόνομων Γεωργικών Οχημάτων με Χρήση Φίλτρου Kalman (“Precise and Unfailing Positioning of Autonomous Agricultural Vehicles Using Kalman Filtering”). Proceedings of the 4th Pan-Hellenic Conference on Agricultural Engineering (in Greek).

Invited Talks

1. **Machine Systems, Automation and Precision Farming**, 9 March, 2015. Auburn University, Biosystems Engineering Department, Auburn,
2. **New Technologies in Agriculture**, 18 February, 2015. *Clemson University*, School of Agriculture, Forest and Environment Sciences, South Carolina, USA.
3. **Variable-Rate Technologies**, 8 May 2013. *Arkansas State University*, College of Agriculture and Technology, Jonesboro AR, USA
4. **Innovations in Agricultural Mechanization**, 12 March 2013. *California State University*, Department of Physics and Engineering, Bakersfield CA, USA.
5. **Harvest Management Information System for Specialty crops**, 1 February 2013. *Washington State University*, BSE Department, Graduate Seminar, Prosser, WA, USA.
6. **Automation in Agriculture: in-Field Solutions for Specialty Crops**, 11 March 2011. *Washington State University*, BSE Department, Graduate Seminar, Prosser, WA, USA.

Field Days / Talks

1. WSU Cherry Picking Festival, Prosser, WA, USA, Sunday, June 30, 2013.
2. WSU-IAREC Cherry Field Day, Prosser, WA, USA, Thursday, June 6, 2013.
3. OSU Pre-Harvest Tour, The Dalles, OR, USA, Friday, June 7, 2013.
4. Harvest Technology Field Day, Stockton, CA, USA, Wednesday, May 29, 2013.
5. WSU showcases orchard technology (Technology EXPO), Wenatchee, WA, USA, October 2, 2012.
6. WSU-IAREC Cherry Field Day, Prosser, WA, USA, Monday, June 4, 2012.
7. OSU Pre-Harvest Tour, The Dalles, OR, USA, Tuesday, June 5, 2012.
8. WSU-IAREC Cherry Field Day, Prosser, WA, USA, Wednesday, June 8, 2011.

Grant proposals

As an Assistant Professor at CSUB

1. **Pending:** PI: Yiannis Ampatzidis. U.S. Department of Agriculture, HSI Educational Grants Program. **RELO: Research, Experiential and Learning Opportunities for underrepresented students in biological and agricultural engineering.** *Budget: \$274,728.*
2. **Pending:** PI: Yiannis Ampatzidis. **Investigate the use of treated unconventional water for potential agricultural applications.** Capacity Building Grants for Non Land Grant Colleges of Agriculture. *Budget: \$149,785.*
3. **Pending:** Co-PI: Yiannis Ampatzidis. **The Right Water for the Right Place in WaterStressed Agriculture Centers: Treated Oil Field Formation Water and Marginal Groundwater.** U.S. Department of Agriculture, Water for Agriculture Challenge Area. *Budget: \$9,903,390.*
4. **Pending:** Co-PI: Yiannis Ampatzidis. **Development of affordable, real-time, and autonomous vision based sensing systems for the early detection of CLas in pre-symptomatic citrus plants.** U.S. Department of Agriculture, Specialty Crops Research Initiative, Citrus Disease Research and Extension. *Budget: \$2,997,219.*
5. **Pending:** PI: Yiannis Ampatzidis. **Develop novel research and extension opportunities for underrepresented students in Hispanic Serving Institutions.** U.S. Department of Agriculture, Undergraduate Research and Extension Experiential Learning Fellowships. *Budget: \$299,367.*
6. **Pending:** PI: Yiannis Ampatzidis. U.S. Department of Agriculture, HSI Educational Grants Program. **Developing experiential learning and research opportunities for underrepresented students in a transforming agricultural environment.** *Budget: \$260,057.*
7. **Awarded:** Co-PI: Yiannis Ampatzidis. **Oil Field Water for Agriculture.** CALFLOWS Study. *Budget: \$103,417.*
8. **Rejected:** Co-PI: Yiannis Ampatzidis. **Smart Micro-Grid Design Using Renewable Energy for Sustainable Agriculture.** USDA AFRI: Exploratory Research. *Budget: \$100,000.*
9. **Awarded:** PI: Yiannis Ampatzidis. **Dual-Axis Sun Tracking Device for Solar Panel.** CSUB California Energy Research Center (CSUB CERC). *Budget: \$2,394.*
10. **Awarded:** PI: Yiannis Ampatzidis. **Solar Lawnbot-Solar Powered and Remote Controlled Lawn Mower.** CSUB California Energy Research Center (CSUB CERC). *Budget: \$2,664.*
11. **Pending:** Partner: Yiannis Ampatzidis. National Science Foundation - MRI. **Acquisition of Multi-Domain Advanced Real-Time Simulator for Support of Interdisciplinary STEM Research at California State University, Bakersfield.** *Budget: \$325,565.*
12. **Rejected:** PI: Yiannis Ampatzidis. Washington Tree Fruit Research Commission. **Low-Cost Bird Control System Using UAVs.** *Budget: \$56,107* (final stage).
13. **Pending:** PI: Yiannis Ampatzidis. California Blueberry Commission. **Low-Cost Autonomous Unmanned Aerial Vehicle System for Controlling Pest Bird.** *Budget: \$23,400* (final stage).
14. **Rejected:** CO-PI: Yiannis Ampatzidis. Active Transportation Program, California Transportation Commission. Active Transportation Surveys, Analysis and Recommendations for Metropolitan Bakersfield. *Budget: \$180,000.*
15. **Awarded:** PI: Yiannis Ampatzidis. Kern COG. **GIS-based bike survey system project.** *Budget: \$20,000.*
16. **Awarded:** PI: Yiannis Ampatzidis. California State University, Office of the Chancellor. Promising Practices Program RFP: 2014-15 Course Redesign with Technology. **Redesign ENGR 241, Analytic Mechanics – Dynamics.** *Budget: \$29,025.*
17. **Awarded:** PI: Yiannis Ampatzidis. Research Council of the University (RCU) invites 2014-2015. California State University. **AHI-Airborne Hyperspectral Imagery.** *Budget: \$5,000.*

18. **Awarded:** PI: Yiannis Ampatzidis. California State University, Office of the Chancellor. Promising Practices Program RFP: 2014-15 Course Redesign with Technology. **Redesign ENGR 240, Analytic Mechanics – Statics.** *Budget: \$27,775.*
19. **Awarded:** PI: Yiannis Ampatzidis. Research Council of the University (RCU) invites. California State University. **ORA: Orchard Automation.** *Budget: \$4,995.94.* Status: finished (Spring 2014).
20. **Awarded:** PI: Yiannis Ampatzidis. PI: Yiannis Ampatzidis. Faculty Professional Development Grant. Faculty Teaching & Learning Center (TLC) Grants to support Professional Development & Teaching Innovation. California State University. **Process of developing a “Lab for Precision and Automated Systems” (LPAS).** *Budget: \$500.* Status: finished (Spring 2014).
21. **Rejected:** PI: Yiannis Ampatzidis. Washington Apple Commission. **Automated Pest Trap for monitoring Coddling Moth population.** *Budget: \$140,000.*
22. **Rejected:** PI: Yiannis Ampatzidis. Washington Apple Commission. **Automated Pest Trap for monitoring Apple Maggot population.** *Budget: \$180,000.*
23. **Rejected:** PI: Yiannis Ampatzidis. U.S. Department of Agriculture, HSI Educational Grants Program. **Developing learning, research, and experiential opportunities for underrepresented students in biosystems and agricultural engineering.** *Budget: \$299,749.*

Other Grant Proposals

- ***In-Field Traceability System for Specialty Crops, 2012.*** PI: Qin Zhang; PI2: Yiannis Ampatzidis; PI3: Matthew Whiting; PI4: Li Tan. Submitted on the Washington Tree Fruit Research Commission (Spring Technology Research Review). ***Budget: \$180,370.*** Status: rejected at the final stage (full proposal + presentation stage).
- ***Novel System for Facilitating Payroll, 2012.*** PI: Qin Zhang; PI2: Yiannis Ampatzidis; PI3: Matthew Whiting; PI4: Li Tan. Submitted on the Washington Tree Fruit Research Commission (Technology Research Review). ***Budget: \$56,000.*** Status: rejected at the first stage (pre-proposal stage).
- ***Understanding major obstacles to improving harvest efficiency, 2012.*** PI: Qin Zhang; PI2: Yiannis Ampatzidis; PI3: Matthew Whiting. Submitted on the Washington Tree Fruit Research Commission (2012 Apple Crop Protection Research Review). ***Budget: \$24,907.*** Status: rejected at the final stage (full proposal + presentation stage).
- ***Pilot Study: A method for measuring apple impact damage during harvest, 2012.*** PI: Qin Zhang; PI2: Yiannis Ampatzidis; PI3: Matthew Whiting; PI4: Manoj Karkee. Submitted on the Washington Tree Fruit Research Commission (2012 Apple Crop Protection Research Review). ***Budget: \$23,000.*** Status: rejected at the first stage (pre-proposal stage).
- ***A system for in-field traceability, 2012.*** PI: Qin Zhang; PI2: Yiannis Ampatzidis; PI3: Matthew Whiting. Submitted on the Washington Tree Fruit Research Commission (2012 Apple Crop Protection Research Review). ***Budget: \$180,000.*** Status: rejected at the first stage (pre-proposal stage).
- ***Development of an integrated farm management information system supporting automated acquisition of work flow data (e-Farm), 2009.*** PI1: Stavros Vougioukas; PI2: Dimitrios Moshou. I was a lead member of the writing team. Submitted on the NSRF (National Strategic Reference Framework) 2007-2013, Ministry of Development, Competitiveness, Infrastructure, Transport & Networks. ***Budget: €900,000.*** Status: rejected at the final stage (it was a runner-up proposal).