CURRICULUM VITAE
SPYROS FOUNTAS

Date of birth: January 1971
Place of birth: Filiatra Messinias, Peloponnese, Greece
Nationality: Greek; Married, two children
Telephone: +30 2105294035, E-mail: sfountas@aua.gr

Education

Copenhagen University, Faculty of Life Sciences, Denmark	**04/2001 - 03/2004**

Ph.D. studies; Doctoral Thesis**:** "Systems Analysis of Precision Agriculture"
Supervisors: Professor Simon Blackmore & Professor Svend Christensen.
Fully Funded by Copenhagen University.

Purdue University/Center of Precision Agriculture, IN, USA,	**02/2002 - 09/2002**
Visiting Scholar/Researcher	

Research Project**:** Farmers' experience on Precision Agriculture at US Eastern Corn Belt.

Cranfield University at Silsoe, UK	**1997 - 1998**

MSc in Information Technology (Management Information Systems)
MSc Thesis**:** "Industry based project at Novartis, UK, "Implications of the new technology of Precision Farming for agrochemical companies"; *Grade: 'A'*
Supervisor: Professor Simon Blackmore; Self-funded.

Aristotelian University of Thessaloniki, Greece	**1988 - 1993**

BSc in Agricultural Sciences; Major: Soil, Water and Agricultural Engineering

Professional Experience

I. Academic Experience

Agricultural University of Athens	**2013- Today**

Department of Natural Resources Management and Agricultural Engineering
Head of Agricultural Engineering Unit
Professor on Precision Farming

University of Thessaly, School of Agricultural Sciences	**2009 – 2013**

Department of Crop Sciences & Rural Environment
Agricultural Engineering lab
Assistant Professor in farm machinery with emphasis on the application of new technologies

University of Thessaly, School of Agricultural Sciences	**2005 - 2009**

Department of Crop Sciences & Rural Environment
Agricultural Engineering lab
Adjunct Professor
Farm machinery and precision agriculture

Technological Institute of Larissa	**2006-2009**

Department of Biosystems Engineering
Adjunct Lecturer. Teaching Agricultural Engineering courses

The Royal Veterinary and Agricultural University (KVL), Denmark	**04/2004 - 12/2004**
Adjunct Professor	

The Royal Veterinary and Agricultural University (KVL), Denmark   **09/2000 – 03/2001**
Full-time Researcher. Research project: Feasibility study for autonomous vehicles in agriculture. Funded by the Danish Environmental Protection Agency.

II. Industrial Experience

MONSANTO Hellas, Athens, Greece   **08/1999 – 08/2000**
Assistant Product Developer (regulatory affairs, new product development)

Agripan S.A.   **09/1998-08/1999**
Kubota tractors, agricultural engineer

Agricultural Corporation (E.A.S.), Messinias, Greece   **02/1994 – 01/1995**
Agronomist (sales of agrochemical, seeds, fertilizers, machinery; advising farmers)

Editorial positions

- Editor in Chief at Computers and Electronics in Agriculture (Elsevier, IF: 6.8). 2024-2021
- Editor in Chief at Smart Agricultural Technology (Elsevier). 2021-today
- Associate Editor at Computers and Electronics in Agriculture (Elsevier, IF: 6.8). 2022-today
- Associate Editor at Precision Agriculture (Springer, IF: 5.8). 2019 - today
- Guest Editor: MDPI Sustainability. Precision Agriculture Technologies for a Sustainable Future: Current Trends and Perspectives. 2017
- Guest Editor: MDPI Agronomy. Precision Agriculture. 2020
- Guest Editor: MDPI AI: Artificial Intelligence in Agriculture. 2020
- Guest Editor: MDPI Agronomy: Smart Farming in Service of Modernizing Agriculture. 2021
- Guest Editor: MDPI Sensors: APRAS-AI-Empowered Self-Adaptive Federation of Platforms for Efficient Economic Collaboration in Rural Areas. 2022
- Guest Editor: MDPI Micromachines: Micromachines in Agriculture: Current Trends and Perspectives. 2022
- Guest Editor: MDPI Agriculture: Applications of Sensor Technology to Agri-Food Systems. 2022.
- Guest Editor: Frontiers in Plant Science: Sustainable and Intelligent Phytoprotection. 2021
- Guest Editor: Frontiers in Plant Science: Intelligent Plant Protection Utilizing Emerging Technology and Artificial Intelligence. 2022.

Keynote speaker invitations

- International conference FIRA on New Technologies and Robotics in Agriculture. December 2021, Toulouse, France 2021.
- International Horticultural Congress, Istanbul Turkey, 2018.
- European Weed Research Conference, Montpellier France, 2015.
- European Conference on Precision Agriculture, Lleida, Spain, 2013.
- Global Forum on Innovation in Agriculture, Abu-Dhabi, 2014.
- British Conference on Precision Agriculture, Harper-Adams, UK, 2013.

- International Workshop on "Intensive Farming and Integrated Resource Management: Traditional and Non-Traditional Approaches". Rawalpindi, Pakistan, April 2004.
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Research Projects

Project Coordinator

- **ICAREUS – Horizon Europe. Coordinator. (2021-2025)**
  Use of drones in agriculture with application in crop production, animal science and rural logistics,Χρήση μη επανδρωμένων εναέριων οχημάτων, drones, στη γεωργία, με εφαρμογή στη φυτική παραγωγή, στην κτηνοτροφία και στη μεταφορά αγροτικών προϊόντων
- **BEATLES – Horizon Europe, Coordinator (2021-2024)**
- Behavioural analysis for the adoption of climate smart agricultural solutions and technologies in the supply chain
- **ERA-NET ICT-AGRI – Spectrofood (2021-2023) – Coordinator**
  SPECTROFOOD: Information on agrifood quality estiation using hyperspectral techniques
  SPECTROFOOD aspires to develop digital technology solutions for use in the agri-food value chain, combining innovative Hyperspectral Imaging Systems, Artificial Intelligence techniques, analytic tools, and data platform – related solutions. Therefore, the SPECTROFOOD methodology creates easily adaptable digital technology solutions towards the reduction of food waste and the optimal use of production inputs, taking steps for a transition towards resilient and sustainable agri-food value chains.
- **Greek Foundation for Research and Innovation (ΕΛΙΔΕΚ) – DiVINE (2022-2024) - Coordinator**
  DiVine: Development of precision agriculture system for monitoring Soil Microbiome and crop health in vines
  The goal of DiVine is to identify the impact to which soil microbiome activity correlates with phenotypic characteristics and plant spectral signature. It will develop a computational yield and quality model in crops with high variability, such as vineyards. In this context, Precision Agriculture practices and artificial intelligence methods will be combined to monitor and intervene in crop management techniques, not only with traditional agricultural practices, but also with the enhancement of the soil microbiome.
- **H2020 – OPTIMA (2018-2022) – Coordinator**
  OPTIMA: Optimised Integrated Pest Management for precise detection and control of plant diseases in perennial crops and open-field vegetables.
  Selection of the best combination of bio- and synthetic plant protection products (PPPs), together with highly efficient application, including disease prediction models, spectral early disease detection systems and precise spraying techniques under real field conditions. OPTIMA will offer a holistic IPM framework demonstrated in operational environments, able to contribute to the reduction of the European agriculture reliance on synthetic PPPs resulting in a reduced and more cost-effective use of PPPs, lower residues and reduced environmental and human health impacts.
- **H2020 – Smart-AKIS (2016-2018) - Coordinator**
  Smart-AKIS: European Agricultural Knowledge and Innovation Systems (AKIS) towards innovation-driven research in Smart Farming Technology.
  The project aims at setting up a self-sustainable Thematic Network on Smart Farming Technology designed for the effective exchange between research, industry, extension and the

farming community in order to disseminate direct applicable research and commercial solutions and capture grassroots level needs and innovative ideas.

➢ **H2020 GATES (2017-2019) – Coordinator**
GATES will develop a serious game-based training platform to train professionals across the agricultural value chain on the use of Smart Farming Technologies (SFT), thus allowing deploying its full economic and environmental potential in European agriculture. Main emphasis is on the agricultural machinery and new technologies professional users.

WP Leader / Partner lead

➢ **Greek Secretariat of Research and Technology (ЕΔΚ) – OliveGrow (2021-2023) - Coordinator**
OliveGROW: Precision Agriculture for the management of inputs, decision support and strategic planning for olive trees

OliveGROW aims to develop a reliable and easy-to-use Information System that will incorporate principles and methods of precision farming, taking advantage of the valuable tools provided by current technology to improve the quality and quantity of olive crops. This will maximize the effectiveness of the information system. The temporally and spatially changing needs of olive cultivation will be taken into account and the effects of a number of factors will be evaluated, which potentially affect the quality and quantity of fruits and olive oil produced.

➢ **H2020 IoF2020 – (2017-2020) – Project partner – Technology Chair on Fruits trial**
The project is dedicated to accelerate adoption and application of IoT for securing sufficient, safe and healthy food and to strengthen competitiveness of farming and food chains in Europe. It will consolidate Europe's leading position in the global IoT industry by fostering a symbiotic ecosystem of farmers, food industry, technology providers and research institutes. The main aim is the application and evaluation of IoT systems in large agricultural pilots.

➢ **H2020 APOLLO – (2016-2019) - Project partner – WP Leader**
APOLLO takes advantage of free and open Copernicus Sentinel data, complemented with other open EO data, to feed state-of-the-art agronomic models in order to provide a suite of farm management advisory services: tillage scheduling, irrigation scheduling, crop growth monitoring, and crop yield estimation.

➢ **EU- ICT-AGRI II ERA-NET (2013-2015)**.
"Usability of Environmentally sound and reliable techniques in Precision Agriculture". The aim of USER-PA project is to develop and demonstrate an integrated and reliable Precision Agriculture solution for orchards and vineyards considering spatial information on irrigation and harvest management. USER proposes a conceptual framework, an innovative technical architecture, and the enabling technologies that will allow integrating canopy and fruit sensors with mobile and static data acquisition systems, and farm management information systems, targeting a system that will serve farmers.
My Role: Country Officer of the project in Greece. I am responsible for the coordination of the project in the country and coordinating 3 researchers working on this project. I am **WP leader** in the WP related to the development of a Management Information Systems for Precision Agriculture with the application of yield potential, variable rate applications and irrigation scheduling.

➢ **GGET – Synergasia II (2013-2015)**.
"GREEN VINEYARD: Environmental Optimization of Viticulture with the use of Precision Agriculture Technologies. The aim of this project is to develop an innovative approach that integrates Precision Agriculture (PA) technologies and Integrated Crop Management (ICM) practices in order to protect natural resources and sustain a profitable future for grape and wine production".

My Role: Partner Officer. I was responsible for the collection of the site-specific data for the field experiments; the spatial and temporal analysis as well as the delineation of management zones and the application of variable rate applications of fertilizers and irrigation water.

- **EU- ICT-AGRI I ERA-NET (2011-2013).**
  "Integrated robotic and software platform as a support system for farm level business decisions".
  ROBOFARM aims to create a technology platform that integrates and harmonizes existing software and hardware technologies into a single system and makes use of robots equipped with sensors and active vision systems to automatically collect data from the field, feeding a farm management DSS and considering the agronomical, environmental and food safety aspects. Our group is responsible for the following:
  My Role: Country coordinator and WP leader on: "Systems analysis and specification requirements for a Farm Management Information System. WP leader on: Hardware integration, interface designs and modularization. WP leader on: Middleware distributed control system implementation to integrate a software package with the hardware on an farm machinery off-road vehicle. I was responsible for the coordination of the project in the country and coordinating 4 researchers working on this project.

- **Bilateral cooperation between Greece and Romania (2012-2014). Country Coordinator.**
  "Economic and Environmental implications of the application of Precision Agriculture in apple orchards". This project involves the following steps that will be studied in both countries and cross-comparisons will be derived: To assess soil variability within apple plantations; To assess crop, yield and quality variability within apple plantations; To assess the environmental implications of using precision agriculture in apple plantations
  My Role: Scientific Officer of the project in Greece. I was responsible for the field experiments and the production of deliverables together with a hired new researcher.

- **EU/FP7 FutureFarm Project (2008- 2011).**
  The aim of the project was to tackle the current situation where although most people can see the benefits of using a more precise approach to manage crops with additional information, the tools provided by precision farming and other information technologies have not yet moved into mainstream agricultural management. The increased complexity of the systems inhibits easy adoption and makes calculations as to the financial benefits uncertain. These issues were studied and tried to be resolved by improving the decision making process though better Management Information Systems, improved data interchange standards and clear management methods.
  The role of our group was **WP leader** on: Analysis of management strategies and required compliance to standards; WP partner on: Analysis and specification of knowledge based farm management; WP partner on: Knowledge management in the FMIS of tomorrow; WP partner on: Socio-economic, environmental impact and technology assessment.
  My Role: Scientific Officer of the project in Greece. I was **WP Leader** on the analysis of management strategies and coordinated a group of 5 researchers. Additionally, I was personally involved in the other WPs listed above.

- **Monsanto Hellas (2008-2010). Coordinator. Scientific Officers: Theofanis Gemtos – Spyros Fountas.**
  "Application of Precision Agriculture in Olive Trees for weed control"
  The project examined the application of precision agriculture in olive tree plantations over 4 years. It evaluated two different weed control systems; chemical application treatment and mechanical weeding. It also evaluated the implications of variable rate fertilization for P and K. This project involved the local agency of crop protection; farmer groups and local agronomists.
  My Role: Co-Scientific Officer. I was in charge of the field experiments and the analysis of data and generation of reports and communication with the company.

Participant in Research Projects

- **Baltic See Economic Coorperation (2009-2010).** Scientific Officer: Prof. Theofanis Gemtos "Feasibility Study for Precision Agriculture for Irrigation in the Black Sea region: Economical and Environmental Benefits"
The project conducted a feasibility study of precision irrigation application (variable rate application) in the Black Sea area. The study revealed the water saving potential of up to 7% could be achieved. **My Role: Researcher.** I carried out the scenarios for variable rate application in the region of Thessaly.
- **Innovation Pole of Thessaly, Greek Secretariat of Research and Technology** (2006-2008)**.** Scientific Officer: Prof. Theofanis Gemtos
 "Production of Biofuels in Thessaly". The consortium studied the feasibility of Biofuels production from the energy crops to the final used. Three energy crops (rape seed, sunflower and sweet sorghum) were studied for their adaption to Thessalian climatic and soil conditions. The in the farm production of vegetable oils were studied and their use to power farm tractors at different mixture with diesel with or without heating were tested in an attempt to develop a power self-sufficient farm. **My Role: Researcher.** I was in charge of the data analysis of the collected data for the soil management and the preparation of reporting.
- **Greek General Secretariat of Research and Technology, Greece** (2005-2006)**.** Scientific Officer: Prof. Theofanis Gemtos.
Pythagoras II: "Protocols for the analysis of spatial and temporal variability in agriculture. Applications in cotton and apple orchards".
The project studied the application of precision agriculture in apples orchards and in cotton fields. Yield mapping, ECA mapping, soil properties m aping were carried out for two years Management zones were formed from the collected data. Suggestions for variable rate fertiliser applications in both crops were made. **My Role: Post Doctoral Researcher.** I was in charge of the field experiments, data analysis and the preparation of reporting.
- **Danish Technical Research Council, Denmark (**04/2004– 12/2004). Scientific Officer: Prof. Simon Blackmore.
"Development of software components for intelligent agricultural agents".
The project developed a new systems architecture and derived appropriate standards that explicitly address the need for sensible autonomous behaviour in given contexts of biosystems production, while retaining the ability to be self-aware and show graceful degradation when in unknown conditions or when sub systems fail and ensure that the machine control retains a safe integrity.
My Role: Post Doctoral Researcher. I was programming an autonomous vehicles and worked on management codes for the new mechanization system.
- **Danish Agricultural Research Council, Denmark** (12/2000–03/2001). Researcher. Scientific Officer: Prof. Simon Blackmore
"Feasibility study for autonomous vehicles in agriculture". This project conducted a techno-economic feasibility study of developing an autonomous weeder for Christmas trees, both for the mechanical designs, the operational modes and the environmental benefits compared to the present practice of using herbicide applications. **My Role: Researcher.** I worked on the specification requirements for the autonomous Christmas tree weeder.

Memberships

- Member at the European Society of Agricultural Engineering
- Member at the Greek Society of Information and Communication Technology in Agriculture
- Country representative on the European Society of Precision Agriculture
- Member at the Greek Society of Agricultural Engineering (President in the period 2015-2017)

- EU Expert on Eco-functional intensification for the Technology Platform Organics (2010-2011)

Organisation of International conferences in the field of the applicant

1. Co-organizer of the 6th European Conference on Precision Agriculture in Skiathos, Greece, June 2007
2. Co-editor for the poster proceedings of the the 6th European Conference on Precision Agriculture in Skiathos, Greece, June 2007
3. Organizing Committee on the 5th Greek Conference on Agricultural Engineering (Treasurer)
4. Organizing Committee on the HAICTA Conference 2011, Skiathos, Greece, September 2011

Research Papers

Citations / h-index
5200 Citations (excluding self-citations) / h-index: 33
(Scholar Google - Last accessed April, 2022)

THESES

- Systems Analysis of Precision Agriculture. Ph.D. Thesis. The Royal Veterinary and Agricultural University, March 2004.
- Implications of the new technology of precision farming for agrochemical companies. M.Sc. Thesis. Cranfield University at Silsoe, UK, September 1998.
- Programming the diffusion of biological oxygen demand (BOD) in watersheds. B.Sc. Thesis in the School of Agriculture, Department of Agricultural Engineering Soil Sciences and Hydraulics, Aristotle University, Thessaloniki, Greece, June 1993.

BOOK CHAPTERS

1. Gemtos T., Fountas S., Bourazanis, G., 2000. Farm Tractors and implements. In: Farm Mechanization in Agriculture. Institute of Pedagogics, Athens. In Greek. Book.
2. Fountas, S., Blackmore, S., Pedersen, S. M., 2005. Information and Telecommunication Technologies (ICT) in Precision Agriculture. In the e-book, E.Gelb and A. Offer (eds.), ICT in Agriculture: perspectives of technological innovation. Center for Agricultural Economic Research, Hebrew University of Jerusalem. http://departments.agri.huji.ac.il/economics/gelb-pedersen-5.pdf, 15 pages. Book chapter.
3. Blackmore, S., Griepentrog, H.W., Pedersen, S.M., Fountas, S., 2006. Precision Farming in Europe. In "Handbook of Precision Agriculture: Principles and Applications". The Haworth Press, Inc., USA, 567-614. Book chapter.
4. S. M. Pedersen, S. Fountas, S. B. Blackmore, 2008. Agricultural Robots — Applications and Economic Perspectives. Service Applications and Economic Perspectives. Service Robot Applications (ed. Yoshihiko Takahashi), pp. Robot Applications (ed Yoshihiko Takahashi), 369-382. InTech Education and Publishing. Book chapter.
5. Fountas, S., Gemtos, T.A., Blackmore, S., 2010. Robotics and sustainability in soil engineering (edited by Dedousis, A., Bartzanas, T.), Springer. pages 69-80. Book chapter.
6. Fountas, S., Bartzanas, T. and Bochtis, D., 2011. Emerging Footprint Technologies in Agriculture, from Field to Farm Gate, in Intelligent Agrifood Chains and Networks (eds M. Bourlakis, I. Vlachos and V. Zeimpekis), Wiley-Blackwell, Oxford, UK, pages 67-85. Book chapter.
7. Fountas, S., Gemtos T., 2015, Precision Agriculture: Technologies, Applications and Perspectives. Kallipos, ISBN: 978-960-603-135-9. In Greek. 246 pages. Book.
8. Fountas, S., Aggelopoulou, K. and Gemtos, T. A., 2016. Precision Agriculture: crop management for improved productivity and reduced environmental impact or improved sustainability, in Supply Chain

Management for Sustainable Food Networks (eds. E. Iakovou, D. Bochtis, D. Vlachos and D. Aidonis), Wiley-Blackwell, Oxford, UK. Book chapter.

9. Pedersen, SM., Fountas, S., Sørensen, CG., van Evert, FK., Blackmore, S., 2017. Robotic Seeding: Economic Perspectives. In: Precision Agriculture: Technology and Economic Perspectives (Edited by Søren Marcus Pedersen Kim Martin Lind, 167-179. Springer. Book chapter.

10. Balafoutis, AT., Beck, B., Fountas, S., Tsiropoulos, Z., Vangeyte, J., 2017. Smart Farming Technologies–Description, Taxonomy and Economic Impact. Precision Agriculture: Technology and Economic Perspectives, 21-77. Springer. Book chapter.

11. Tsiropoulos, Z., Carli, G., Pignatti, E., Fountas, S., 2017. Future Perspectives of Farm Management Information Systems. Precision Agriculture: Technology and Economic Perspectives, 181-200. Springer. Book chapter.

12. Fountas S., 2019. Key challenges and methods in identifying management zones. University of Athens, Greece; Aristotelis Tagarakis, BioSense Institute-Research Institute for Information Technologies in Biosystems, Serbia; and Athanasios Balafoutis, Centre for Research and Technology Hellas, Institute of Bioeconomy & Agro-technology, Greece. InPrecision agriculture for sustainability (pp. 149-164). Burleigh Dodds Science Publishing.

13. Pedersen, S.M., Pedersen, M.F., Ørum, J.E., Fountas, S., Balafoutis, A.T., van Evert, F.K., van Egmond, F., Knierim, A., Kernecker, M. and Mouazen, A.M., 2020. Economic, environmental and social impacts. In Agricultural Internet of Things and Decision Support for Precision Smart Farming (pp. 279-330). Academic Press.

14. Balafoutis, A.T., Kavroumatzi, C.K., Moraitis, M., Vaiopoulos, K., Mylonas, N., Tsitsigiannis, I., Ampatzidis, Y., Fountas, D.S. and Bochtis, D., 2021. Advanced Crop Protection Techniques and Technologies. In Modeling for Sustainable Management in Agriculture, Food and the Environment (pp. 112-171). CRC Press.

15. Panoutsopoulos, H., Garcia, B.E., Verbist, P.E., Fountas, S., Spanoghe, P. and Brewster, C., 2021. Integrating Agriculture-related Data Provided by Thematic Networks into a High Impact Knowledge Reservoir. In Modeling for Sustainable Management in Agriculture, Food and the Environment (pp. 199-226). CRC Press.

16. Zude-Sasse, M., Akbari, E., Tsoulias, N., Psiroukis, V., Fountas, S. and Ehsani, R., 2021. Sensing in Precision Horticulture. Sensing Approaches for Precision Agriculture, pp.221-251. Progress in Precision Agriculture. Springer, Cham.

17. Taylor, J.A., Anastasiou, E., Fountas, S., Tisseyre, B., Molin, J.P., Trevisan, R.G., Chen, H. and Travers, M., 2021. Applications of Optical Sensing of Crop Health and Vigour. In Sensing Approaches for Precision Agriculture (pp. 333-367). Springer, Cham.

18. Kasimati, A., Psiroukis, V., Panoutsopoulos, H., Mouseti, S., Mylonas, N., Fountas, S. (2023). Management Information Systems and Emerging Technologies. In: Vougioukas, S.G., Zhang, Q. (eds) Advanced Automation for Tree Fruit Orchards and Vineyards. Agriculture Automation and Control. Springer, Cham.

19. Nicoleta Darra, Aikaterini Kasimati, Michael Koutsiaras, Vasilis Psiroukis, Spyros Fountas, 2023. Digital transformation of SMEs in agriculture. In: SMEs in the Digital Era: Opportunities and Challenges of the Digital Single; edited by Emanuela Carbonara, Maria R. Tagliaventi.

INTERNATIONAL PEER-REVIEWED JOURNAL PAPERS

1. S.M. Pedersen, S. Fountas, B.S. Blackmore, M. Gylling, J.L. Pedersen, 2003. Adoption and perspectives of precision farming in Denmark. Acta Agricultura Scandinavica; Section B. Soil and Plants, 54 (1), 2-6.

2. S. Blackmore, R. Godwin, S. Fountas, 2003. The analysis of spatial and temporal trends in yield map data over six years. Biosystems Engineering 84 (4), 455-466.

3. S. Blackmore, S. Fountas, L. Tang, H. Have, 2004. Systems requirements for small autonomous agricultural vehicles. Journal of the International Commission of Agricultural Engineering (CIGR). Manuscript PM 04 001. Vol. VI. July 2004.

4. Fountas, S., Blackmore, S., Ess, D., Hawkins, S., Blumhoff, G., Lowenberg-Deboer, J., Sorensen, C. G., 2005. Farmer Experience with Precision Agriculture in Denmark and the US Eastern Corn Belt. Precision Agriculture, 6, 121-141.

5. S. Vougioukas, S. Fountas, S. Blackmore, Lie Tang, 2005. Combining Reactive and Deterministic Behaviours for Mobile Agricultural Robots. Special Issue on Information Systems and Innovative Technologies in Agriculture, Food and Environment. Operational Research – an International Journal, 5(1).

6. S. M. Pedersen, S. Fountas, H. Have and B. S. Blackmore, 2005. Agricultural robots – system analysis and economic feasibility. Precision Agriculture 7(4) 295-308.

7. S. Vougioukas, S. Blackmore, J. Nielsen and S. Fountas, 2006. A Two-Stage Route Planning System for Autonomous Agricultural Vehicles. Precision Agriculture 7(5) 361-377.

8. S. Fountas, D. Wulfsohn, S. Blackmore, H. L. Jacobsen, S.M., Pedersen, 2006. A model of decision making and information flows for information-intensive agriculture. Agricultural Systems 87, 192-210.

9. S. Blackmore, H.W. Griepentrog, S. Fountas, T.A. Gemtos, 2007. Specifications for an autonomous crop mechanization system. Agricultural Engineering International: the CIGR Ejournal. Manuscript PM 06 032. Vol. IX. September, 2007.

10. S. Fountas, B. S. Blackmore, S. Vougioukas, L. Tang, C. G. Sørensen and R. Jørgensen, 2007. "Decomposition of Agricultural Tasks into Robotic Behaviours". Agricultural Engineering International: the CIGR Ejournal. Manuscript PM 07 006. Vol. IX. October, 2007.

11. S. Fountas, M. Kyhn, H. Lipczak Jakobsen, S. Blackmore, H.W., 2009. Griepentrog. Systems analysis and information management of a university research farm. Precision Agriculture, 10(3), 247-261.

12. D.D. Bochtis, C.G. Sørensen, O. Green, T. Bartzanas, and S. Fountas, 2010. Feasibility of a modelling suite for the optimised biomass harvest scheduling. Biosystems Engineering, 107, 283-293.

13. C.G. Sorensen, L. Pesonen, S. Fountas, P. Suomi, D. Bochtis, P. Bildsøe and S.M. Pedersen, 2010. A user-centric approach for information modelling in arable farming. Computers and Electronics in Agriculture, 73(1), 44-55.

14. C. Sørensen, S. Fountas, E. Nash, L. Pesonen, D. Bochtis, S. Pedersen, B. Basso, S. Blackmore, 2010. Conceptual model of a future farm management information system. Computers and Electronics in Agriculture, 72(1), 37-47.

15. A. Aggelopoulou, D. Wulfsohn, S. Fountas, G. Nanos, T. Gemtos, S. Blackmore, 2010. Spatial Variability of yield and quality in an apple orchard. Journal of Precision Agriculture 11, 538-556.

16. Aggelopoulou, A., Bochtis, D., Koutsostathis, A., Fountas, S., Gemtos, T., Nanos, G., 2011. Yield prediction in apple orchards based on image processing. Journal of Precision Agriculture, 12 (3), 448-456.

17. Nash, E., Wiebensohn, J., Nikkila, R., Vatsanidou, A., Fountas, S., Bill, R., 2011. Towards automated compliance checking based on a formal representation of agricultural production standards. Computers and Electronics in Agriculture 78, 28-37.

18. Lawson, L. G., Pedersen, S.M., Sorensen, C.G., Pesonen, L., Fountas, S., Werner, A., Oudshoorn, F. W., Herold, L., Chatzinikos, T., Kirketerp, I. M., Blackmore, S., 2011. A four nation survey of farm information management and advanced farming systems: A descriptive analysis of survey responses. Computers and Electronics in Agriculture 77(1), 7-20.

19. Turker U., T Erdem, A. Tagarakis, S. Fountas, G. Mitev, B. Akdemir and T.A. Gemtos, 2011. A Feasibility Study of Variable Rate Irrigation in Black Sea Area: Water and Energy Saving from the Application. Journal of Information Technology in Agriculture, 4(1), 1-8.

20. Balafoutis, A., Fountas, S., Natsis, A., Papadakis, G., 2011. Performance and Emissions of Sunflower, Rapeseed, and Cottonseed Oils as Fuels in an Agricultural Tractor Engine. ISRN Renewable Energy Volume 2011, Article ID 531510, doi:10.5402/2011/531510.S.

21. Tagarakis, A., Liakos, V., Fountas, S., Koundouras, S., Gemtos, T., 2011. Using soil and landscape properties to delineate management zones in vines. Journal of Agricultural Machinery Science, 7(1), 33-38.

22. Natsis, A., Fountas, S., Gemtos, T., 2011. Transplanting Machine Operation Analysis. Agricultural Mechanization in Asia, Africa and Latin America, 42 (2), 33-36.

23. Aggelopoulou, A., Pateras, D., Fountas, S., Nanos, G., Gemtos, T., 2011. Soil spatial variability and site-specific fertilization maps in an apple orchard Journal of Precision Agriculture, 12(1), 118-129.

24. Fountas, K. Aggelopoulou, C. Bouloulis, G. Nanos, D. Wulfsohn, T. Gemtos, A. Paraskevopoulos, M. Galanis, 2011. Site-specific management in olive tree plantation. Journal of Precision Agriculture, 12(2), Pages 179-195.

25. Kutter, T., Tiemann, S., Siebert, R., Fountas, S., 2011. The role of communication and cooperation in the adoption of Precision Farming in Europe. Journal of Precision Agriculture, 12 (1), 2-17.

26. Basso, B., Sartori, L., Cammarano, D., Grace, P.R., Fountas, S., Sorensen, C., 2012. Environmental and economic evaluation of N fertilizer rates 1 in a maize crop in Italy: a spatial and temporal analysis. Biosystems Engineering 113, 103-111.

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