

DAY 1:
September 18th, 2008

REGISTRATIONS & OPENING

Registration Time: 08:00-09:15

Opening Time: 09:15-10:00

Location: University Congress Hall

PLENARY SESSION S1: Precision Agriculture (Invited talk)

Time: 10:00-10:45

Location: University Congress Hall

Chair: Prof. N. Dalezios

Keynote Speaker: Professor Richard E. Plant

Title: Precision Agriculture: A New Experimental Paradigm

R. E. Plant

University of California, USA - Editor of the Computers and Electronics in Agriculture (COMPAG) Journal

Coffee Break

Location: Conference Hall

Time: 10:45-11:15

PARALLEL SESSIONS

11:15-13:15

	<p align="center">ROOM-1 <i>Session S2-A: Monitoring and Control</i> Chair: Prof. R. Plant</p>		<p align="center">ROOM-2 <i>Session S2-B: Modelling and ICT</i> Chair: Prof. C. Kittas</p>
1.	<p>Integrated Method for Monitoring Irrigation Demand in Agricultural Fields in Cyprus Using Satellite Remote Sensing and Wireless Sensor Network D. Hadjimitsis (CUT, Cyprus) A. Kounoudes (SignalGeneriX Ltd, Cyprus) G. Papadavid (ARIC, Cyprus)</p>	1.	<p>Investigation of Groundwater Pollution Risk from Phosphate Water and Slime Utilization in Agriculture Using Hydrodynamic Modelling E. Diamantopoulos¹, N. Dercas¹, K. Soulis¹, S. Jellali², A. Stefopoulou¹ (¹Agricultural University of Athens, Greece; ²Centre of Water Research and Technologies, Tunisia)</p>
2.	<p>A Decentralised Data Fusion System for River Water Monitoring – The Neda River Case T. Kotsilieris (TEI of Kalamata, Greece) G. Karetos (TRC of Thessaly, Greece) A. Yiannakoulis (NTUA, Greece) V. Loumos (NTUA, Greece)</p>	2.	<p>Modelling Safron Yield Based on Weather Variables in North East of Iran S. Sanaeinejad, S. Hosseini, M. Farsi, S. Hasheminia (Ferdowsi University of Mashhad, Faculty of Agriculture, Iran)</p>
3.	<p>Location-aware Expert System Design for Olive Fruit Fly Spray Control C. Pontikakos, T. Tsiligiridis, M. Maliappis, M. Drougka (Agricultural University of Athens, Greece)</p>	3.	<p>Design of Phosphorous Index Model as Environmental Risk Assessing Tool L. Berzina, A. Zujevs (Latvia University of Agriculture, Latvia)</p>
4.	<p>Drought Monitoring Using Several Indices E. Kanellou, E. Tsiros, C. Domenikiotis, N. Dalezios, S. Tzortzios (University of Thessaly, School of Agricultural Sciences, Greece)</p>	4.	<p>Corn Biomass Spatial Variability Modelling and Drip Irrigation Water Management Effects with the Use of GIS Techniques and Methods P. Dioudis¹, Ag. Filintas¹, J. Hatzopoulos², G. Karantounias³, D. Kalivas³ (¹TEI of Larissa, Greece, ²University of Aegean, Greece, ³Agricultural University of Athens, Greece)</p>
5.	<p>Software Architecture for Farm Management Information Systems in Precision Agriculture R. Nikkila, I. Seilonen, K. Koskinen (Helsinki University of Technology, Finland)</p>	5.	<p>Dispersion Modelling of Air Pollutants in a South-Eastern European Environment Paschalidou, P. Kassomenos (University of Ioannina, Greece)</p>
6.	<p>Hardware-in-the-loop Approach in the Development of Small-scale Renewable Energy Based Hybrid Power Systems V. Osadcuks, A. Galinš (Latvia University of Agriculture, Latvia)</p>	6.	<p>Validation of a Climate Simulator (SimGreC) in Mediterranean Greenhouses during Winter Period G. Dimokas¹, N. Katsoulas¹, M. Tchamitchian², C. Kittas¹ (¹University of Thessaly, School of Agricultural Science, Greece; ²INRA, Écodéveloppement, France)</p>

Lunch Break

***Location:* Conference Hall**

***Time:* 13:15-14:45**

PLENARY SESSION S3: StatGIS (Invited talk)

***Time:* 14:45-15:30**

***Location:* ROOM-1**

***Chair:* Prof. T. Tsiligridis**

***Keynote Speaker:* Professor Jürgen Pilz**

***Title:* Interoperability – Spatial Interpolation and Automated Mapping**

J. Pilz, H. Kazianka, G. Spöck

Department of Statistics, University of Klagenfurt, Austria

PARALLEL SESSIONS

15:30-17:30

	ROOM-1 <i>Session S4-A: GIS and Remote Sensing</i> Chair: Prof. J. Pilz		ROOM-2 <i>Session S4-B: Statistical Methods and ICT</i> Chair: Assis. Prof. G. Papadopoulos
1.	Generating Digital Elevation Model from ASTER Satellite Data: A Case Study for Kozani Region, Greece E. Tsiros ¹ , E. Louvari ² , E. Kanellou ¹ , S. Theodoridou ² , A. Tialiou ¹ (¹ University of Thessaly, School of Agricultural Sciences, Greece; ² Geoanalysis S.A., Greece)	1.	Algorithmic Solution for Analysis of Time Series Database K. Onkov (Agricultural University, Bulgaria) G. Tegos (TEI of Thessalonica, Greece)
2.	Terrain and Soil Influences on ERS-1 SAR Image T. K. Alexandridis ¹ , C. A. Bird ² , T. Mayr ² , G. Thomas ³ , E. Stavrinou ⁴ (¹ Aristotle University of Thessalonica, School of Agriculture, Greece; ² Cranfield University; ³ Queen Mary College, University of London, UK; ⁴ Ministry of Rural Development and Food, Greece)	2.	Spouted Bed Broccoli (<i>Brassica oleracea</i> var. <i>italica</i>) Seed Coating Efficiency Evaluation Celina De Almeida ¹ , Sandra C. S. Rocha ² , Inácio M. Dal Fabbro ¹ (¹ Agricultural Engineering, State University of Campinas, Brazil; ² Chistry Engineering, State University of Campinas, Brazil)
3.	Rapid Analysis of Wildfire Impacts Using ASTER Data and Support Vector Machines Non-Parametric Classification. A case Study from the Greek Fire Season of Summer 2007. G. Petropoulos ¹ , W. Knorr ¹ , M. Scholze ¹ , L. Boschetti ² , G. Karantounias ³ (¹ University of Bristol, UK; ² University of Maryland, USA, ³ Agricultural University of Athens, Greece)	3.	Obtaining Data for Meal Criterion for Dairy Cows in a Computerized Feeding System M. Boga ¹ , S. Sahinler ² , M. Gorgulu ¹ , U. Kilic ³ , S. Goncu ¹ , Z.Cebeci ¹ , M. Aksoy ¹ (¹ University of Cukurova, Faculty of Engineering & Architecture, Turkey; ² University of Mustafa Kemal, Faculty of Agriculture, Turkey; ³ University of Ondokuz Mayıs, Faculty of Agriculture, Turkey)
4.	Hydrograph Parameter Estimation Using the SCS Method in a Watershed in Greece E. Baltas ¹ , N. Dervos ² , M. Mimikou ² (¹ Aristotle University of Thessalonica, School of Agriculture, Greece; ² NTUA, Greece)	4.	Calibration of a Biological Simulator in Tomato's Development and Production in Mediterranean Greenhouses during Winter Period G. Dimokas ¹ , M. Tchamitchian ² , C. Kittas ¹ (¹ University of Thessaly, School of Agricultural Science, Greece; ² I.N.R.A, Ecodéveloppement, France)
5.	An Investigation of Organic Contaminants and their Spatial Distribution in the Surface Sediments of Keratsini Harbour with the Use of Geographic Information Systems S. Galanopoulou ¹ , A. Vgenopoulos ² , N. Conispoliatis ² , S. Kaloudis ¹ , E. Chatzitheodoridis ² (¹ TEI of Lamia, Greece; ² NTUA, Greece)	5.	Computational Implementation of Moiré Methods Applied to Three Dimensional Image Reproductions Daniel Victor Marotti, Inacio Maria Dal Fabbro, Antonio Carlos Loureiro Lino (Agricultural Engineering, State University of Campinas, Brazil)
6.	Identification of Water Limited Growth Environment Zones Using NOAA/AVHRR Data E. Tsiros, C. Domenikiotis, E. Kanellou, N. R. Dalezios, S. Tzortzios (University of Thessaly, School of Agricultural Sciences, Greece)	6.	Testing non Linear Structure of the Stock Prices of the Firms in the Sector of Dairy Products; The case of Vivartia E. Zafeiriou ¹ , T. Koutroumanidis, S. Sofios (Democritus University of Thrace, Greece)

Session S4-C: Tutorial

Time: 15:00-18:00

Location: ROOM-3

Title: Modelling Agricultural/Environmental System with UML and Model Driven Architecture (MDA) Approach

Organizers: Prof. Panos Pardalos, Dr P. Papajorgji

University of Florida

Coffee Break

Location: Conference Hall

Time: 17:30-18:00

PLENARY SESSION: Round Table 1

Time: 18:00-18:30

Location: ROOM-1

Panel: To be announced

End of Day 1

**DAY 2:
September 19th, 2008**

REGISTRATIONS

Registration Time: 08.30-09.00

Location: Conference Hall

PLENARY SESSION S5: E-Services (Invited talk)

Time: 09:00-09:45

Location: ROOM-1

Chair: Prof. Z. Cebeci

Keynote Speaker: Dr Sjaak Wolfer, President of EFITA

Title: Future Challenges for Information Integration in Multi-dimensional Agri-food Supply Chain Networks

S. Wolfert¹, C. Verdouw¹, Adrie Beulens²

¹LEI, Wageningen, The Netherlands

²Information Technology Group, Wageningen University, The Netherlands

PARALLEL SESSIONS

09:45-11:45

	ROOM-1 <i>Session S6-A: A Supply Chain and Traceability</i> Chair: Prof. M. Vlachopoulou		ROOM-2 <i>Session S6-B: Internet Services and Use</i> Chair: Prof. V. Manthou
1.	Designing a Conceptual Production Focused and Learning Oriented Food Traceability System Z. Cebeci, T. Alemdar, O. Inanc Guney (Çukurova University, Faculty of Agriculture, Turkey)	1.	Evaluation and Ranking of the Internet Presence of Enterprises in Aquaculture Sector in Greece Z. Andreopoulou ¹ , A. Kokkinakis ¹ , T. Koutroumanidis ² , A. Athanasiadis ¹ (¹ Aristotle University of Thessaloniki, Greece; ² Democritus University of Thrace, Greece)
2.	Expanding Supply Chain Services in the Agrifood Sector– A Case Study P. Panousopoulou, E. Papadopoulou, V. Manthou, M. Vlachopoulou (University of Macedonia, Greece)	2.	Internet Behaviour of Horticultural Growers in Flanders, Belgium N. Taragola, D. Van Lierde (Institute for Agricultural and Fisheries Research, Belgium)
3.	A Cost-Benefit Evaluation Framework of an Electronic-Based Traceability System G. Chryssochoidis ¹ , A. Karagiannaki ¹ , K. Pramataris ² O. Kehagia ¹ (¹ Agricultural University of Athens, Greece; ² Athens University of Economics and Business National Institute of Standards and Technology, CO, USA)	3.	Adoption of ICT in Flemish Horticulture D. Van Lierde, N. Taragola (Institute for Agricultural and Fisheries Research, Belgium)
4.	EPN: A Supply Chain Events Notation T. Pavlou (Vivartia Bakery and Confectionary Division, Greece)	4.	The Necessities of New Technologies Usage at Turkish Dairy Farms to Increase Competitive Skills at Global Market S. Goncu Karakok, N. Darcan, M.Gorgulu, S. Ozgursoy (Çukurova University, Faculty of Agriculture, Turkey)
5.	The Role of Trust in the Transition from Traditional to Electronic B2B Relationships in the Agri-Food Sector M. Canavari (University of Bologna, Italy) M. Fritz, (University of Bonn, Germany) G. Jan Hofstede (Wageningen University, The Netherlands) A. Matopoulos (University of Macedonia, Greece) M. Vlachopoulou (University of Macedonia, Greece)	5.	From the COMPASS project to ECOLOGICA and to the Organic.Edunet. L. Radics ¹ , S. Basile ² , Z. Szalai ¹ , P. Pusztai ¹ , Jr. Radics ³ (¹ Corvinus University Budapest, Hungary; ² Biocert Association, Italy; ³ Ecologica International, Hungary)
6.	FAOLEX – A Full Text Retrieval in Natural Resources Legislation Texts H. Rybinski (Warsaw University of Technology, Poland) B. Moauro (Food and Agriculture Organization, Italy)	6.	E-learning Training Course on European Standards for Ecological Agriculture. Pilot Project Leonardo da Vinci, “Ecojob-AP”. A. Tziortziou, S. Tzortzios, P. Gkoutisidis (University of Thessaly, Greece)

Coffee Break

Location: Conference Hall

Time: 11:45-12:15

PARALLEL SESSIONS

12:15-13:15

	ROOM-2 Poster Session P1 <i>Poster Coordinator: Assis. Prof. E. Pimenidis</i>		ROOM-3 Poster Session P2 <i>Poster Coordinator: Dr M. Maliappis</i>
1.	Measurements of Apparent Electrical Conductivity and Water Content Using Resistivity Meter A. Bozkurt (ABM Mühendislik, Araştırma Bilgi Merkezi, Turkey) C. Kurtulus (Kocaeli University, Turkey) H. Endes (Kocaeli University, Turkey)	1.	Ecophysiological Characterization of Two Clones of Eucalyptus on High Leaf Water Potential Kelly C. Tonillo, Julio C. Baratelli, Marcel Christofoletti, Inacio M. Dal Favoro, Jose Teixeira Filho (University of Campinas, School of Agriculture Engineering, Brazil)
2.	Static Load Simulation and Pressure Distribution of Pig Claw Surface on hard floor compared to different types of rubber mattresses Victor Ciaco de Carvalho, Irenilza de Alencar Nääs, Silvia Regina Lucas de Souza, Mario Mollo Neto (State University of Campinas, Brazil)	2.	Moiré Tests on Babaçu (<i>Orbignya speciosa</i>) Fruit Silvestre Rodrigues ¹ , Inácio Maria Dal Fabbro ² , Adilson Machado Enes ² , Jonathan Gazzola ² , Celina de Almeida ² , Alexandre Melo Pereira ² (¹ UFRO/Feagro/Rondônia, Brazil; ² University of Campinas, School of Agriculture Engineering, Brazil)
3.	The Cadastral Arrangement for a Micro Farm in Banat Plain Considering the New European Standards L. Barliba ¹ , G. Eles ² , C. Barliba ¹ , L. Cojocariu ¹ (¹ Banat's University of Agricultural Sciences and Veterinary Medicine, Romania; ² Politechnica University of Timisoara, Romania)	3.	Use of Multiple Traits Animal Model for Genetic Evaluation of Milk Yield and Age at First Calving of Holstein Friesian Cattle in Turkey H. Atil (Faculty of Agriculture, University of Ege, Turkey) A. Khatlab (Faculty of Agriculture, University of Tanta, Egypt)
4.	Seed STS image lines spectral intensity analysis Adilson Machado Enes, Inácio Maria Dal Fabbro, Roberto Alves Braga Jr, Giovanni Francisco Rabelo (University of Campinas, School of Agriculture Engineering, Brazil)	4.	Assessment of the Impact on Agriculture of Hurricane Dean in the Yucatan Peninsula from SPOT Images Jesus Soria-Ruiz (National Institute of Research for Forestry Agricultural and Livestock, Mexico) Yolanda Fernandez-Ordenez (Colegio de Postgraduados, Mexico)
5.	Error Evaluation on Moiré Technique Supported Geometrical Measurements Adilson Machado Enes, Marcos Valério, Inácio M. Dal Fabbro, Antonio Carlos Loureiro Lino (University of Campinas, School of Agriculture Engineering, Brazil)	5.	Geological Geophysical and Geotechnical Characteristics of Expansive Soils In Derince , Turkey C. Kurtulus (Kocaeli University, Turkey) A. Bozkurt (ABM Mühendislik, Araştırma Bilgi Merkezi, Turkey)
6.	Surface Water Quality in the Vicinity of Yalova, Türkiye F.Dökmen ¹ , C.Kurtulus ¹ , A.N.Yüksel ² (¹ University of Kocaeli, Turkey; ² University of Namık Kemal, Turkey.)	6.	The contribution of individual farm simulation programs in ex ante evaluation of agricultural policy measures Henri Prins, Sjaak Wolfert (LEI, Wageningen The Netherlands)
7.	Use of Generalized Estimating Equations in Biological Experiments H. Onder ¹ , Y. Bek ² (¹ Ondokuz Mayıs University, Faculty of Agriculture, Dep. Animal Science, Samsun-Turkey, ² Ondokuz Mayıs University, Faculty of Medicine, Dep. Biostatistic, Samsun-Turkey)		A Study on Comparison of Some Estimation Methods for Multiple Regression Model Parameters and Effects of Outlier S. Cankaya¹ N. Darcan² A. Unalan³ ¹ Ondokuz Mayıs University, Department of Animal Science, Turkey, ² Cukurova University, Department of Animal Science, Turkey ³ Nigde University, Vocational School of Ulukisla, Turkey

Lunch Break
Location: Conference Hall
Time: 13:15-14:00

PLENARY SESSION S7: Intelligent Systems and Services (Invited talk)

Time: 14:00-14:45

Location: ROOM-1

Chair: Prof. K Sindir

Keynote Speaker: Professor Gerhard Schiefer

Title: Sustainability – The Emerging Challenge for Information Technologies and Systems

G. Schiefer, M. Fritz
University of Bonn, Germany

PARALLEL SESSIONS

14:45-16:25

	ROOM-1 <i>Session S8-A: Information Systems and Services</i> Chair: Prof. Gerhard Schiefer		ROOM-2 <i>Session S8-B: Intelligent Systems</i> Chair: Assoc. Prof. Lazaros Iliadis
1.	Framework for Deploying Agricultural e-Government Services M. Ntaliani ¹ , C. Costopoulou ¹ , S. Karetos ¹ , E. Tambouris ² (¹ Agricultural University of Athens, Greece; ² Center for Research and Technology, Greece)	1.	Evaluation of Neural Network Techniques for Estimating Reference Evapotranspiration with Minimum Climatological Data M. Diamantopoulou, P. Georgiou, D. Papamichail (Aristotle University of Thessalonica, Greece)
2.	Bluetooth design configurations to support agricultural applications M. Drougka, C. Pontikakos, T. Tsiligiridis (Agricultural University of Athens, Greece)	2.	Evaluation Methodology of a Web-based Greenhouse Intelligent Management System M. Maliappis, K. Ferentinos (Agricultural University of Athens, Greece)
3.	Community Information Systems Based on Unified Modelling Language to Create a Participatory Monitoring Tool on the Environmental Impact of Agriculture M. Barzman, C. Cornu (Agricultural Research Centre for Developing Countries, France)	3.	Assessing the classification accuracy of an evolutionary neural network: the case of plant virus identification T. Glezakos, G. Moschopoulou, T. Tsiligiridis, S. Kintzios, C. Yialouris (Agricultural University of Athens, Greece)
4.	FARMA: A framework for livestock management based on RFID enabled mobile devices A. Voulodimos ¹ , C. Patrikakis ¹ , A. Sideridis ² , V. Ntafis ² , E. Xylouri ² (NTUA, Greece; Agricultural University of Athens, Greece)	4.	Filling Gaps in Diameter Measurements on Standing Tree Boles M. Diamantopoulou (Aristotle University of Thessalonica, Greece)
5.	Web Services and their applications for rural areas – Security issues and challenges E. Pimenidis (University of East London, UK) C. Georgiadis (University of Macedonia, Greece)	5.	Soil desertification modelling using neural networks D. Kalivas, D. Triantakonstantis (Agricultural University of Athens, Greece)

Session S8-C: AgroLT Workshop

Time: 15:00-18:00

Location: ROOM-3

Title: Learning Technology Standards for Agriculture and Rural Development

Organizers: Dr N. Manouselis, Dr G. Salokhe, Dr C. Sgouropoulou, Assis. Prof. C. Costopoulou

Coffee Break

Location: Conference Hall

Time: 16:25-16:40

PARALLEL SESSIONS

16:40-18:00

	<p align="center">ROOM-1 <i>Session S9-A:Decision Support Systems</i> Chair: Prof. N. Lorentzos</p>		<p align="center">ROOM-2 <i>Session S9-B: Intelligent Systems</i> Chair: Assis. Prof. C. Yialouris</p>
1.	<p>Building a Conceptual Model and Ontology for Heterogeneous Geodatabases Yolanda Fernández-Ordoñez (Colegio de Postgraduados, Mexico) Jesus Soria –Ruiz (National Institute of Research for Forestry Agricultural and Livestock, Mexico) Reyna C. Medina-Ramírez (Universidad Autonoma Metropolitana, Mexico)</p>	1.	<p>Modelling Disease Spread in Livestock Using ICT G. Klotz, D. Stacey (University of Guelph, Canada)</p>
2.	<p>A Prototype DSS for Major Field Crops E. Antonopoulou, S. Karetos, M. Maliappis, A. Sideridis (Agricultural University of Athens, Greece)</p>	2.	<p>An intelligent fuzzy c-means clustering software system with fuzzy termination criterion: The case of forest fires in Greece L. Iliadis, M. Vangeloudh, S. Spartalis (Democritus University of Thrace, Greece)</p>
3.	<p>The role of Decision Support Systems in modern Forestry K. Ioannou, P. Lefakis. L. Iliadis (Aristotle University of Thessalonica, Greece; Democritus University of Thrace, Greece)</p>	3.	<p>Knowledge modelling for the aid in the Knowledge-Based System development of in vitro bovine embryo production and embryo quality E. Mangina Phelan (University College Dublin, Ireland) D. Rizos (INIA, Madrid) P. Lonnergan (University College Dublin, Ireland))</p>
4.	<p>Information System for Forest Management Planning S. Kaloudis¹, C. Yialouris², N. Lorentzos², M. Karteris³, A. Sideridis² (¹Technological Education Institute of Lamia, ²Agricultural University of Athens, Greece; ³University of Thessaloniki, Greece)</p>	4.	<p>Fuzzy Adaptive Clustering of the Greek Forest Terrain Towards Forest Fire Risk Assessment T. Tsataltzinos (Democritus University of Thrace, Greece)</p>

PLENARY SESSION: Round Table 2

Time: 18:00-18:30

Location: ROOM-1

Panel: To be announced

Welfare Dinner

Time: 21:00

End of Day 2

**DAY 3:
September 20th, 2008**

Excursion to Mycenae (<http://en.wikipedia.org/wiki/Mycenae>) and Nafplio (<http://www.nafplio-tour.gr/>)

Cost per person: about 40€(including transport, lunch, guide and admission to sites)

Reservations at the conference secretariat: Maria Koukouli (mkou@aua.gr)

(The exact programme will be announced at the conference)