



HAICTA2006
International Conference on:
Information Systems in Sustainable Agriculture, Agroenvironment and Food Technology

PROGRAMME



20-23 September 2006
Xenia Hotel, Volos, Greece

Programme Editing Committee:

Stergios Tzortzios, Professor, Vice-President of HAICTA and Chair of HAICTA2006 Organizing Committee

Nicolas Dalezios, Professor, Chair of HAICTA2006 Scientific Committee

Dimitrios Bampzelis, MSc, Secretariat of HAICTA2006

Marios Spiliotopoulos, MSc, Secretariat of HAICTA2006

ROOM A**ROOM B****ROOM C****Wednesday, 20 September Hotel Main Hall**17:00-22:00 **Registration and Welcome Reception****Thursday, 21 September Assembly Hall: Opening Ceremony**09:00-09:30 **Greetings**

- ✚ **S. Tzortzios**, Chair of HAICTA2006 Organizing Committee
- ✚ **N. Dalezios**, Chair of HAICTA2006 Scientific Committee
- ✚ **B. Manos**, President of HAICTA-North Greece
- ✚ **Sideridis**, President of HAICTA-the Greek branch of EFITA
- ✚ **K. Bagiatis**, Rector of the University of Thessaly
- ✚ **Special Guests: Minister of Education, Minister of Agric. Development & Foods, Prefect of Magnesia, Mayor of the town of Volos**

09:30-11:00 **Invited Speakers**

- ✚ **Prof. Dr. Gerhard Schiefer**, "The challenge of integration in the agricultural and food sector: E-communities and e-networks" University of Bonn, Germany.
- ✚ **Dr Elizabeth Koch**, Chairperson of COST 725
- ✚ **Dr Hefin Jones**, "Presentation of the European Science Foundation (ESF)" ESF Standing Committee for Life, Earth and Environmental Sciences
- ✚ **Bioagro** Representative

11:00-11:30 **Coffee Break****SESSION 1: Information Technology**

(Chairperson: Nicolas Samaras, Greece-George Adamides, Cyprus)

11:30-11:45 **Kolyo Z. Onkov , Delyana D. Dimova**
"Information technology for creation and use of PC "Phytopharmacy" database"
 Agricultural University, Plovdiv, Bulgaria

11:45-12:00 **George Adamides**
"Bio@gro: A Multilingual Web-Based Application for Organic Agriculture"
 Agricultural Research Institute, Nicosia, Cyprus

12:00-12:15 **George Adamides, Natalie Biberian**
"The Penetration and Sustainability of ICT in the Cypriot Agricultural Sector"
 Agricultural Research Institute, Nicosia, Cyprus

11:30-13:00 **"Bioagro" Meeting****SESSION 5: AGROCLIMATOLOGY-PHENOLOGY WORKSHOP - CLOSED SESSION**

(Only for ESF Workshop Participants)

(Chairperson: Elizabeth Koch, Austria-Viera Remišová, Slovak Republic)

11:30-11:45 **Viera Remišová**
"Onset of the first May sprouts of Norway spruce (Picea abies (L.) Karst.) in Slovakia"
 Slovak Hydrometeorological Institute, Bratislava, Slovak Republic

11:45-12:00 **Luminita Cojocariu, Florina Radu**
"On the effect of genotype and ecologic conditions on yielding capacity in Dactylis glomerata"
 Banat's University of Agricultural Sciences and Veterinary Medicine, Timisoara, Romania

12:00-12:15 **Luminita Cojocariu, A. Moisuc**
"Phenophases study at the medicago sativa species in Timisoara – Romania"
 Banat's University of Agricultural Sciences and Veterinary Medicine, Timisoara, Romania

ROOM A

12:15-12:30 **Vojtech Merunka, Stergios Tzortzios, Roger P. Knott**
"Transformation of Relationships and Hierarchies during Object Oriented Analysis and Design of Information Systems"
 Dept. of Information Engineering, Czech University of Agriculture in Prague

12:30-12:45 **Zacharoula S. Andreopoulou, Antonis K. Kokkinakis, Basil Manos**
"Classification of Greek fish farming entities and evaluation of their presence in the Internet"
 Aristotle University of Thessaloniki, Thessaloniki, Greece

12:45-13:00 **Sophia E. Vassiliadou, Zacharoula S. Andreopoulou, Michalis Salampasis**
"A web-based information seeking and learning environment for the Greek forest flora"
 Aristotle University of Thessaloniki, Greece

13:00-13:15 **Vasileios I. Kyriatzis, Nicholas S. Samaras, Haifa Takruri-Rizk, Stergios Tzortzios, Dimitrios Kalfountzos**
"Intelligent Irrigation Scheduling System Employing Wireless Sensor Networks Technology"
 CNTR, School of Computing, Science and Engineering, University of Salford, UK

13:15-13:30 **Yiannis Ampatzidis, Stavros Vougioukas, Dionisis Bochtis**
"A Decomposition Framework for the Autonomous Navigation of Agricultural Vehicles"
 Aristotle University of Thessaloniki, Greece.

13:30-15:00 **Lunch**

SESSION 1: Information Technology

(Chairperson: Th. Tsiligiridis, Greece- Lazaros Iliadis, Greece)

15:00-15:15 **Eleni Kargioti, Maro Vlachopoulou, Vicky Manthou**
"Evaluating Customers' Online Satisfaction: The case of an agricultural website"
 University of Macedonia, Thessaloniki, Greece

ROOM B**SESSION 4: AGRO-MANAGEMENT**

(Chairperson: -Miklos Herdon, Hungary - Liviu Gaceu, Romania)

15:00-15:15 **(Invited Speech). Romulus Gruia**
"Integrative Management and Informational Connections"
 Transilvania University of Brasov, Romania

ROOM C

12:15-12:30 **Pavel Stastny, Pavol Nejedlik**
"Some relations in selected phenological phases and temperature sums in northern Carpathian"
 Slovak Hydrometeorological Institute, Bratislava, Slovakia

12:30-12:45 **Helfried Scheifinger, Elisabeth Koch**
"The Spatial Gradient Law of Phenology"
 Zentralanstalt für Meteorologie und Geodynamik, Wien, Austria

12:45-13:00 **Marios Theofilou**
"Drought indices for the island of Cyprus"
 University of Cyprus

13:00-13:15 **Eeva Kotilainen, Mirva Leppälä, Jarmo Poikolainen, Ari Venäläinen and Eero Kubin**
"The Finnish National Phenological Network"
 Finnish Forest Research Institute, Muho, Finland.

13:15-13:30 **Vasile Turcu, Elena Mateescu, Oana Oprea**
"Romanian Agro-Meteorological Network – Monitoring, Data Processing, and Real-Time Information to Decision Factors and End-Users"
 National Meteorological Administration, Romania

SESSION 5: AGROCLIMATOLOGY-PHENOLOGY WORKSHOP - CLOSED SESSION

(Only for ESF Workshop Participants)

(Chairperson: Elizabeth Koch, Austria – Jiri Nekovar, Czech Rep.)

15:00-15:15 **Márta Gaál, Levente Horváth**
Geographical analogies in climate change research
 Corvinus University of Budapest, Hungary

ROOM A

15:15-15:30	Argyroulis V. and Zotou V. "Teaching English for Agriculture through agricultural English corpora and educational technology" University of Thessaly, Greece
15:30-15:45	A.B. Sideridis, S.T. Karetzos, C.I. Costopoulou and C.P. Yialouris "Alternatives to Traditional Farming by e-Government Services" Agricultural University of Athens, Greece
15:45-16:00	S. Manitsaris, D. Glaroudis "A Geographical Multimedia Management Information System for the local development" University of Macedonia, Greece
16:00-16:15	Tania Pavlou, Bill Karakostas "An Event-Driven Approach to Support Supply Chain Architectural Design" School Of Informatics, City University, London, EC1V 0HW, United Kingdom
16:15-16:30	Tahmaseb Maghsoudi, Shahin Shadfar "Regression Analysis of Factors Influencing on Potato Cultivation Sustainability a Case Study: Ferydonshahr County, Iran" Tehran Azad University, Iran
16:30-16:45	A.Orçun Sakarya "Potential CRM Implications for the Improvement of Wine Marketing: Example of Turkey" Çankaya University, Ankara, Turkey
16:45-17:00	M. T. Maliappis "Knowledge Management for Dissemination. The Case of Agricultural Sector" Informatics Laboratory, Agricultural University of Athens, 75, Iera Odos Str., Athens, Greece

17:00-17:30 **Coffee Break**

SESSION 2: GIS & REMOTE SENSING (Chairperson: Christos Batzios, Greece-Inacio Maria Dal Fabbro, Brasil)	
17:30-17:45	Antonio Carlos Loureiro Lino, Inacio Maria Dal Fabbro "Digital Moiré Assisted Shape Survey of Plant Organs" FEAGRI, UNICAMP, Campinas, SP, Brasil

ROOM B

15:15-15:30	N. Manouselis, C. Costopoulou, A. Sideridis "Introducing Recommender Systems for Agricultural E-Commerce Applications" Agricultural University of Athens, Greece
15:30-15:45	Adamantios Haritou, Alexandros Voyatzis "A Model For Tourist Accommodation in EU-20" University of Macedonia, Thessaloniki, Greece
15:45-16:00	Lazaros S. Iliadis, Fotis Maris "A Fuzzy smart Database estimating the Torrential Risk of the "Panaitoliko" mountain watersheds" Dep. of Forestry and Management of the Environment and Natural Resources, Democritus University of Thrace, Orestiada, Greece
16:00-16:15	E. Zafeiriou, Th. Koutroumanides and S. Sofios "Empirical investigation of PPP in the agricultural products" Democritus University of Thrace, Department of Rural Development
16:15-16:30	Ali Shams "Educational Quality of Agricultural Master Courses: The perceptions of graduated students of agricultural college" Tehran University, Iran
16:30-16:45	M. Ntaliani, S. Karetzos, J. Savvas, C. Costopoulou and A. Sideridis "Current Status and Perspectives of e-Government in Greek Agriculture" Agricultural University of Athens, Greece
16:45-17:00	Aristotelis Tagarakis, Athanasios Chatzinikos, Spyros Fountas, Theofanis Gemtos "Delineation of management zones in precision viticulture" University of Thessaly, Greece

SESSION 4: AGRO-MANAGEMENT (Chairperson: Theofanis Gemtos, Greece- Agrita Briede, Latvia)	
17:30-17:45	Antonio Carlos Loureiro Lino, Inacio Maria Dal Fabbro, Silvestre Rodrigues "Moiré Assisted Soil-Tire Contact Area Evaluation" FEAGRI, UNICAMP, Campinas, SP, Brazil

ROOM C

15:15-15:30	Danuta Romanovskaya, Eugenija Baksiene "Influence of climate warming on development regularities of plants in Lithuania during 1961–2000" Voke Branch of Lithuanian Institute of Agriculture, Lithuania
15:30-15:45	Nekovar Jiri, Hajkova Lenka, Striz Martin "Selected Phenological characteristics of the Czech Republic" Czech Hydrometeorological Institute
15:45-16:00	E. Tsiros, C. Domenikiotis, N.R. Dalezios "Aridity Mapping with the Use of NDVI and Satellite Derived Degree Days" University of Thessaly, Greece
16:00-16:15	Péter Salga, Marianna Medveczki, Levente Horvath "Modeling climate change using Neural Networks" Corvinus University, Hungary
16:15-17:00	Discussion

SESSION 5: AGROCLIMATOLOGY-PHENOLOGY (Chairperson: Kolyo Z. Onkov, Bulgaria-Vagis Samathrakis, Greece)	
17:30-17:45	Antonio Carlos Loureiro Lino, Inacio Maria Dal Fabbro, Silvestre "Fourier Transform Assisted Phase Shift Moiré Technique" FEAGRI, UNICAMP, Campinas, SP, Brazil

ROOM A

17:45-18:00	Antonio Carlos Loureiro Lino, Inacio Maria Dal Fabbro "Application of Image Processing Techniques to Fruit and Vegetable Classification" FEAGRI, UNICAMP, Campinas, SP, Brasil
18:00-18:15	P. Andriopoulos "GIS-Based Visibility Analysis in Fire Management: An Application to Adritsaina-Alifeira Area in Greece " Agricultural University of Athens, Athens Greece
18:15-18:30	L.G. Toullos, D. Doudoumopoulou, D.G. Hadjimitsis "Combining Multitemporal Multispectral Satellite Data for Per-Parcel Classification" National Agricultural Research Foundation (NAGREF), Larissa, Greece
18:30-18:45	Ag.T. Filintas, P.I. Dioudis, D. Pateras, J.N.Xatzopoulos, L. Toullos. "Drip Irrigation Effects in Movement, Concentration and allocation of Nitrates and Mapping of Nitrates with GIS in an Experimental Agricultural Field" National Agricultural Research Foundation (NAGREF), Larissa, Greece
18:45-19:00	Dimitrios Frossyniotis, Yannis Anthopoulos, Spiros Kintzios Antonis Perdikaris and Constantine P. Yialouris "Detection of Plant Viruses Using Biosensors and Artificial Neural Networks" Agricultural University Of Athens, Greece
19:00-19:15	D.G.Hadjimitsis and L.G. Toullos "Satellite Remote Sensing for Crop Discrimination and Crop Monitoring" Frederick Institute of Technology, Nicosia, Cyprus

ROOM B

17:45-18:00	George Adamides, Marianthi Giannakopoulou, Eirini Georgiadou "Consumer's Supremacy on Sustainable Agriculture" Agricultural Research Institute, Nicosia, Cyprus
18:00-18:15	E. Koskor, M. Mänd, R. Karise, V. Geherman, A.-J. Martin, R. Viiralt, A. Luik "Diversity OF Bumble Bees and Their Food Resources on Ecological and Conventional Farms" Estonian University of Life Sciences, Kreutzwaldi 64, Tartu
18:15-18:30	Eleni Antonopoulou "Evolution of DSSs in sustainable agriculture" Agricultural University of Athens, Greece
18:30-18:45	T. Bartzanas, A. A. Sapounas, Ch. Nikita – Martzopoulou, C. Kittas "CFD and Agricultural Structures: a Review of Research Applications in Greece" University of Thessaly, Greece
18:45-19:00	Dionisis Bochtis, Stavros Vougioukas, Constantinos Tsatsarelis, Yiannis Ampatzidis "System Architectures for Dynamic Planning and Coordination of Machines Performing Agricultural Operations" Aristotle University of Thessaloniki, Greece
19:00-19:15	G. Tsekouropoulos, I. Tzimitra - Kalogianni, B. Manos "Logistics : Contemporary forms – prospects, logistics applied in Greek agricultural businesses and the correct process of supplying the market with products" Aristotle University of Thessaloniki, Greece

ROOM C

17:45-18:00	George K. Tegos, Kolyo Z. Onkov "Seasonality assessment based on embedded software in the PC time series database for Greek sea fishery" Agricultural University, Plovdiv, Bulgaria
18:00-18:15	Thomas J. Glezakos, Fotis P. Maris, Lazaros S. Iliadis, Theodore A. Tsiligiridis, Constantinos P. Yialouris "Neuro-Genetic modeling of torrential environmental risk: the case of the lakes Volvi and Koroneia" Agricultural University of Athens, Greece
18:15-18:30	Katsiabani K., Mavrakis A., Cartalis C. and Theocharatos G. "Estimation of the temporal evolution of drought episodes in Greece with the use of the SPI meteorological drought index" University of Athens, Greece
18:30-18:45	H. Arzani, S. Yousefi1 "A GIS Model of Range Suitability Assessment for Sheep Grazing (Case Study Taleghan Region in Tehran Province)" University of Tehran, Iran
18:45-19:00	Antonis K. Kokkinakis, Zacharoula S. Andreopoulou, Garyfallos D. Arabatzis "Typology of northern Greece Rivers aiming to the proper management for the protection of their environmental sensitive fish fauna" Aristotle University of Thessaloniki, Greece
19:00-19:15	H. Arzani, S. Yousefi "A GIS Model of Range Suitability Assessment for Sheep Grazing (Case Study Taleghan Region in Tehran Province)" University of Tehran, Iran
19:15-19:30	G. Metaxas, G. Karantounias and N. Spyropoulos "Application of Contemporary Techniques in the Management of Land Reclamation Projects and Water Resources" Technological Education Institute of Piraeus, Athens, Greece

ROOM A**ROOM B****ROOM C****Friday, 22 September**

SESSION 1: Information Technology (Chairperson: Romulus Gruia, Romania – Kostas Yalouris, Greece)	SESSION 2: GIS & REMOTE SENSING (Chairperson: Maro Vlachopoulou -Chr. Domenikiotis, Greece)	SESSION 3: MODELING (Chairperson: N. Danalatos- Zeynel Cebeci, Turkey)
09:00-09:15 (Invited Speech) Miklos Herdon, (István FÜZESI, Tünde RÓZSA) "Food traceability solutions in information systems" University of Debrecen Centre of Agricultural Sciences, Hungary	09:00-09:15 Dionissios Minetos, Olga Christopoulou, Serafeim Polyzos "Investigating land use/ cover change and its dynamics by means of combining statistical techniques and remote sensing methodologies" University of Thessaly, Greece	09:00-09:15 M. J. Diamantopoulou "Comparative analysis of different methods for accurate diameter reduction factor estimation of fir trees bole" Aristotle University of Thessaloniki, Greece
09:15-09:30 M. Drougka "Aspects in Information Systems development for Agriculture Enterprises: A Case Study with an agriculture enterprise" Agricultural University of Athens, Greece	09:15-09:30 Despoina M. Maritsa., Panagiotis A. Kokkinidis., Kostantinos E. Pagonis, Othon N. Manis, Persa D. Barouti-Kyrtopoulou, Athanasios T. Hatzigaidas "A topic map based system for real time monitoring and managing surface water resources" Technological Educational Institution of Thessaloniki	09:15-09:30 M. J. Diamantopoulou, P.E. Georgiou & D.M. Papamichail "An Artificial Neural Network Approach to Daily River Flow Forecasting" Aristotle University of Thessaloniki, Greece
09:30-09:45 Sergejs Arhipovs, Irina Arhipova "The System Modeling of Latvian Forest Management" Faculty of Information Technologies, Latvia University of Agriculture, Latvia	09:30-09:45 Ilias Karmiris, Anastasios Nastis, Dimitrios Dotas "Common use of Mediterranean rangelands by livestock and wildlife" Aristotle University of Thessaloniki. Greece	09:30-09:45 Costas Pontikakos, Konstantinos P. Ferentinos, Theodore A. Tsiligiridis, Alexander B. Sideridis "Natural ventilation efficiency in a twin-span greenhouse using 3D computational fluid dynamics" Informatics Laboratory, Agricultural University of Athens, Greece
09:45-10:00 Ioannis Manikas, Basil Manos, Maro Vlachopoulou, Vicky Manthou "Design of a Producer-Oriented Traceability Model for the Greek Fresh Produce Supply Chain" Aristotle University of Thessaloniki, GREECE	09:45-10:00 F. Amiri, M.R.Chaichi, A.Ariapour "RS and GIS application in site selection for artificial recharge in dry regions of Isfahan (central part of Iran)" Azad University Bushehr Branch, Iran	09:45-10:00 S.V. Archontoulis, P.C. Struik and N.G. Danalatos "Kenaf dark respiration as affected by temperature and leaf position" Wageningen University, Wageningen, The Netherlands
10:00-10:15 Th. A. Gialamas, D. Bochtis, Y. Ampatzidis, D. Kateris, Th. A. Gemtos, C. A. Tsatsarelis "Tractor Stability Estimation Using Adjusting Testing-Bench " Laboratory for Off-Road Equipment, Technological Educational Institute of Larissa, Greece	10:00-10:15 Sergejs Arhipovs, Vitalijs Osadcuks, Irina Arhipova "The Problem of the Geographical Data Control of Territorial Units in the Forest Inventory Information System" Latvia University of Agriculture, Latvia	10:00-10:15 S.V. Archontoulis, P.C. Struik and N.G. Danalatos "Diurnal leaf gas exchange rates of two kenaf genotypes at two leaf positions" Wageningen University, Wageningen, The Netherlands
10:15-10:30 Miklos Herdon, Krisztina ZIMÁNYI, Tünde RÓZSA "Factors of E-Commerce in the Agri-Food Sector" University of Debrecen Centre of Agricultural Sciences, Hungary	10:15-10:30 G. Vardoulis, A. Markinos, K. Aggelopoulou, S. Fountas, A. Gertsis, T. A. Gemtos "Crop variability in cotton fields" University of Thessaly, Greece	10:15-10:30 M. Younesi Alamouti, M. H. Khoshtaghaza, B. ghobadiyan, M. Zahedifar and A. Abbasi "Determination of Rewetting Properties of Wheat Straw for using in Mechanized Urea Treatment of Cereal Straw" Tarbiat Modarres University, Tehran, Iran

ROOM A

10:30-10:45 **Péter Salga, Tünde Rózsa, Miklós Herdon**
"Functional evaluation and selection of ERP for SME-s"
 University of Debrecen, HUNGARY

10:45-11:00 **Liviu Gaceu, Daniel Danila**
"G-code programming software for studying the impact behaviour of vegetables. Application for potato tubers"
 Transilvania University of Braşov, Brasov, Romania

11:00-11:30 **Coffee Break**

SESSION 3: MODELING

(Chairperson: - Irina Arhipova, Latvia- Marika Mänd, Estonia)

11:30-11:45 **Vânia Rosa Pereira, José Teixeira Filho, Inácio Maria Dal Fabbro**
"Application of Landscape Metrics to Vegetation Covering Space and Temporal Characterization at Atibainha Watershed"
 FEAGRI, UNICAMP, Campinas, SP, Brazil

11:45-12:00 **Antonio Carlos, Loureiro Lino, Inácio Maria Dal Fabbro, Silvestre Rodrigues**
"Three Dimensional Shape Survey of Plant Organs Assisted by a Phase Shifting Moiré Technique and the Scilab Software"
 FEAGRI, UNICAMP, Campinas, SP, Brazil

12:00-12:15 **Serafeim Polyzos, Dionissios Minetos**
"Coastal urbanization and shoreline protection: A Cost-Benefit Analysis and Contingent Valuation Method in designing sustainable protection works"
 University of Thessaly, Greece

12:15-12:30 **Reet Karise, Marika Mänd, Eda Koskor, Ants Bender**
"The effect of Neem EC on pollen forage of the bumble bee *Bombus terrestris* L"
 Estonian University of Life Sciences, Tartu, Estonia

12:30-12:45 **Petros Kerkides, Panagiotis Giannouloupoulos, Emmanouil Psoimiadis**
"Land use change detection and possible effects: The case of Iria basin"
 Agricultural University of Athens, Greece

ROOM B

10:30-10:45 **I.V. Kirkenidis, C.V. Kirkenidis, Z.S. Andreopoulou, P.D. Lefakis**
"Pilot multimedia application of photographic documentation for the dams in Greece"
 Aristotle University of Thessaloniki, Greece.

SESSION 4: AGRO-MANAGEMENT

(Chairperson: Basilios Manos, Greece- Luminita Cojocariu, Romania)

11:30-11:45 **N. Palavitsinis, N. Manouselis, C. Costopoulou, A. Sideridis**
"Wine E-Markets in Greece"
 Agricultural University of Athens

11:45-12:00 **Sophia. E. Vassiliadou, Panagiotis. D. Lefakis**
"Environmental Database Management with Object-Oriented Methodology"
 Aristotle University of Thessaloniki, Greece

12:00-12:15 **Hamid Abbasdokht**
"Influence of foliar spray of urea on plant height, yield and protein content of wheat (*Triticum aestivum*)"
 Shahrood University of Technology, Shahrood, Semnan, IRAN

12:15-12:30 **S. Maddahhosseini and K. Poostini**
"Effect of source strength reduction on retranslocation of stem water soluble carbohydrates in three barley cultivars"
 Tehran University, IRAN

12:30-12:45 **Masoud Rezaei**
"Development of a Scale to Measure the Motivation of Local Extension Workers to participate in Agricultural Extension Activities"
 University of Tehran, Karaj, Iran

ROOM C

10:30-10:45 **R. Amini, F. Sharif-zadeh**
"The effect of osmopriming on germination and drought tolerance of Rye (*Secale montanum*)"
 University of Tehran, Iran

10:45-11:00 **A. Bagheri and A. Shams**
"Adoption Behavior of Sprinkler Irrigation among Farmers of Ardebil Province-IRAN"
 Tehran University, Iran

SESSION 5: AGROCLIMATOLOGY-PHENOLOGY WORKSHOP - CLOSED SESSION

(Only for ESF Workshop Participants)

(Chairperson: Pavol Nejedlik, COST Representative- Ákos Németh, Hungary)

11:30-11:45 **N. Gitsakis, M. Spiliotopoulos, Ch. Domenikiotis, G. Dimou and N. Dalezios**
"Cotton Yield Prediction Using Remotely Sensed Data and Neural Networks"
 University of Thessaly, Greece

11:45-12:00 **Ákos Németh**
"DEM based method for determination of potential frost-risk territories"
 Hungarian Meteorological Service, Climatology Division, Budapest, Hungary

12:00-12:15 **K. Pappas, N. Gitsakis and N. Dalezios**
"Clustering and Modelling Climate Zones in Greece"
 University of Thessaly, Greece

12:15-14:00 **Closing of Workshop**
 Discussion (All participants)
 Future developments - Follow-up Research
 Collaborative actions
Posters (after lunch)
E. Kanellou, Chr. Domenikiotis and N.R. Dalezios
"Spatially Distributed Potential Evapotranspiration based on NOAA/AVHRR Satellite Data And GIS"
 University of Thessaly, Greece
M. Spiliotopoulos, A. Marinaki, H. Michalopoulou
"Drought Estimation for Crete Island, Greece"
 University of Thessaly, Greece
Weihs P., Rischbeck P., Berger L., Besnard, T., Eitzinger, S., Haumann J., Huber, K., Kaiser, G., Linke R., Postl, W.,

ROOM A

12:45-13:00 **N.G. Danalatos, I.I. Gintsioudis and S.V. Archontoulis**
"Biokenaf: A Crop Growth Dynamic Simulation Model for Kenaf under Greek Conditions"
 University of Thessaly, Greece.

13:00-13:15 **N.G. Danalatos, I.I. Gintsioudis, E. Skoufogianni, K. Giannoulis, M. Chatzidimopoulos, G. Gournezakis and S.V. Archontoulis**
"Three Years Kenaf Cultivation in central GREECE: Assessment and Future Perspectives"
 University of Thessaly, Greece

13:15-13:30 **N.G. Danalatos, S.V. Archontoulis, K. Giannoulis and S. Rosakis**
"Miscanthus and Cardoon as Alternative Energy Crops for Solid Fuel Production in Central Greece"
 University of Thessaly, Greece

ROOM B

12:45-13:00 **Morteza Molaei, Gh. Sharzeei, H. Hamidepour, H. Gholizadeh**
"Derivation of shadow price for CO2 using a distance function approach (Case Study: Iran)"
 Tehran University, IRAN

13:00-13:15 **Farhood Golmohammadi**
"Systematic Functional Pattern of Extension in accessing to Sustainable Agriculture Development in Iran"
 Islamic Azad University, Science and Research Branch – Tehran. IRAN

13:15-13:30 **M., Farzaneh, N., Vaghefi, & J., Hadian**
"Chemical composition and antifungal activity of cumin (Cuminum cyminum) and fennel (Foeniculum vulgare) against three postharvest pathogens "
 Tehran University, Karaj, Iran.

ROOM C

Schneider, W.,
"Determination of drought stress of wheat by thermal infrared measurements and modelling"
 University of Vienna, Austria
Agrita Briede and Gunta Grišule
"Phenological features of the agricultural species in Latvia"
 University of Latvia, Faculty of Geography and Earth Sciences
D. Bampzelis, C. Domenikiotis and N. R. Dalezios
Phenological and Agrometeorological Indices Related to Wheat Production for Central Greece.
 University of Thessaly, Greece
D. Bampzelis, A. Chatzipli, O. Dadali, N.R. Dalezios
Frequency Analysis of Precipitation Characteristics in Different Climate Zones For Greece
 University of Thessaly, Greece
M.S. Castellazzi, K. Conrad, J. Matthews, J.N. Perry
"Spatio-temporal modelling of crops in agricultural landscape"
 Rothamsted Research, Harpenden, UK
Christos Domenikiotis, Anna Blanta, Nicolas R. Dalezios
"Transferability of the DEMETER Methodology"
 University of Thessaly, Greece
Ana Žust, Andreja Sušnik
"Increased Spring Frost Risk for Fruit Growing Production in Slovenia"
 Environmental Agency of the Republic of Slovenia
Szabolcs Bella, Sándor Szalai
"Drought Vulnerability, Changing of Vulnerability of Southern Transdanubium, Hungary"
 Hungarian Meteorological Service, H-1024 Budapest, Hungary

13:30-15:00 **Lunch**

SESSION 3: MODELING

(Chairperson: Miklos Herdon, Hungary-Liga Paura, Latvia)

15:00-15:15 **Liga Paura, Irina Arhipova**
"The applied statistics course content in agricultural study program"
 Latvia University of Agriculture, Latvia

15:15-15:30 **Liga Paura, Irina Arhipova**
"Experimental design of agricultural data"
 Latvia University of Agriculture

15:30-15:45 **M.Sakellariou-Makrandonaki, E.Papadakis, N.Papanikolaou, G.Zaggas**
"Subsurface Drip Irrigation of Sweet Sorghum with Municipal Wastewater"
 University of Thessaly, Greece

SESSION 4: AGRO-MANAGEMENT

(Chairperson: E. Bakšienė, Lithuania-N. Dagustu, Turkey)

15:00-15:15 **M. Pooryousef, D. Mazaheri and M.Nasiri**
"Seed dormancy and its breaking in bitter apple (Citrullus Colocynthis) (L) Schard"
 University of Tehran, Karaj, Iran

15:15-15:30 **N. Dagustu, R.M. Cooper**
"Detection of cell wall degrading enzymes produced by P. Violae in carrot"
 University of Uludağ, TURKEY

15:30-15:45 **E. Bakšienė**
"The effects of lakes sapropels on the changes in sandy loam cambisol properties and on the crop productivity"
 Voke Branch of the Lithuanian Institute of Agriculture, Lithuania

15:00-17:00 **COST 725 Meeting**

ROOM A

15:45-16:00	Hasan Merdun "Single- versus dual-porosity modeling of flow and transport in vadose zone and introduction of macro model" Kahramanmaraş Sütçüimam University, Turkey
16:00-16:15	Ali Vardar, Bülent Eker "Surface roughness map of Trakya region In terms of wind energy" Uludağ University, Bursa, Turkey
16:15-16:30	Ahmad Ghanbari, Hosein Ghadiri, Mehrangiz Joker "Intercropping of maize (<i>Zea Mays L.</i>) and cucumber (<i>Cucumis sativus L.</i>) as a non-chemical weeds control" University of Zabol, Iran
16:30-16:45	Hülya ATIL "A comparison of different selection indices for genetic improvement for milk traits in Holstein Friesian cattle in Turkey by using one standard deviation as relative economic weight" Ege University, Turkey
16:45-17:00	Nazan Darcan, Zeynel Cebeci "A short review on ict in evaluation of lamb carcass composition" Çukurova University, Adana, Turkey

17:00-17:30 **Coffee Break**

SESSION 3: MODELING (Chairperson: Michalis Salabasis, Greece-Laima Berzina, Latvia)	
17:30-17:45	Sergejs Arhipovs "Metanodeling in the system of grain quality analysis" Latvia University of Agriculture, Latvia
17:45-18:00	Laima Berzina "Assessment of Agricultural Point Source Polluters Using Cluster Analysis" Latvia University of Agriculture, Latvia

ROOM B

15:45-16:00	Luminita Cojocariu, Florina Radu "On the effect of genotype and ecologic conditionS on yielding capacity in <i>Dactylis glomerata</i> " Banat's University of Agricultural Sciences and Veterinary Medicine, Timisoara, Romania
16:00-16:15	Luminita Cojocariu, A. Moisuc "Phenophases study at the Medicago Sativa Species in Timisoara – Romania" Banat's University of Agricultural Sciences and Veterinary Medicine, Timisoara
16:15-16:30	Ing. Radovan Ostrovský "Morphologic characterization of Tokay viticulture region in Slovakia" Institute of Biodiversity_Conservation and Biosafety, Slovak Agricultural University, Nitra, Slovakia
16:30-16:45	Mohsen B. Mesgaran, E. Zand, and Hamid R. Mashhadi "Improvement of Iranian Wheat Cultivars Bred During 1956-1995; With and Without Wild Oat Competition" University of Tehran, Iran
16:45-17:00	F Amiri, M.R. Chaichi "The Effects of Range Enclosure on Vegetation Composition and Density" Azad University Bushehr Branch, Iran

SESSION 4: AGRO-MANAGEMENT (Chairperson: N.R. Dalezios, Greece- Mehmet Musa Özcan, Turkey)	
17:30-17:45	Ján Brindza, Dezider Tóth, Jarmila Eftimova, Karol Kováč, Juraj Žadanský "Slovak Tokay vine and viticulture e-encyclopaedia" Department of genetics and plant breeding, Tr. A. Hlinku 2, 949 76 Nitra, Slovakia
17:45-18:00	Jean-Claude Chalchat, Derya Arslan, Mehmet Musa Özcan "The flavour profile of young shoots, flower buds and unripe fruits of capers (<i>capparis spp.</i>) growing wild in Turkey" Laboratoire de Chimie des Huiles Essentielles Université Blaise Pascal de Clermont,, 63177 Aubiere Cedex, France

ROOM C

MIXED SESSION (Chairperson: S. Tzortzios- Hülya Atıl, Turkey)	
17:30-18:00	INVITED SPEECHES: Gheorghe Valentin Roman, Romania. "Current status regarding the operation of OA sector through the support of internet tools and mechanisms in Romania" -Zeynel Cebeci and Kamil Okyay Sindir, Turkey. "Developments in Turkey regarding ICT in Agriculture, the Environment and Food Sciences"

ROOM A	ROOM B	ROOM C
18:00-18:15 Seyed Reza Hassan-Beygi, Barat Ghobadian, Reza Amiri Chayjan & Mohmmad-Hosein Kianmehr "Prediction of a Power Tiller Sound Pressure Levels in Octave Frequency Bands Using Artificial Neural Networks" Tehran University, Iran	18:00-18:15 Sezen Ocak, İnanç Güneyb, Hülya Atıl "Goat Husbandry in Sustainable Agriculture; A Special Reference for Seyhan Basin in Turkey" Cukurova University, Adana, Turkey	18:00-18:15 S.A.Javadi, H.Azarnivand, Seyed Jalil Alavi "Investigation on germination of sage brush (<i>Artemisia aucheri</i>)" Islamic Azad University of Iran
18:15-18:30 Antonis K. Kokkinakis, Zacharoula S. Andreopoulou, Basil Manos "Fishery Production Models of 'Grey Mullet' (fam. Mugilidae) as a Key Factor for the Sustainable Management of the Costal Lakes in River Nestos Delta" Aristotle Univ. of Thessaloniki, Thessaloniki, Greece	18:15-18:30 Nazan DAĞÜSTÜ "Heterosis for Yield and its Components in Diallel Cross of Seven Hexaploid Wheat (<i>Triticum aestivum</i> L.)" University of Uludağ, Faculty of Agriculture, Field Crops Department, Görükle, Bursa, Turkey	18:15-18:30 Dezider Tóth, Ján Brindza, Jarmila Eftimova, Karol Kováč, Juraj Žadanský, Katarína Mitická, Andrej Urbanovič, Peter Brindza "TOKAYEDUCA – education and advisory information system" Slovak Agricultural University in Nitra
18:30-18:45 Chernayk O.I. Stavtyskyy A.V. "Application of Econometric Methods in Forecasting the Main Socio-Economic Parameters of Developing Ukrainian Agriculture" Kyiv National Taras Shevchenko University, Kyiv, Ukraine	18:30-18:45 F), M.R.Chaichi "Effects of Livestock Grazing on Soil Moisture and Rangeland Vegetation Cover in Hanna Station (center part of Iran)" Islamic Azad University Bushehr Branch. Iran	18:30-18:45 Liviu Gaceu, Stergios Tzortzios, Romulus Gruia "Continuing education in agriculture-a challenge for Information Tehchnology" Transilvania University of Braşov, Romania
18:45-19:00 Ioannis S. Arvanitoyannis & Theodoros H. Varzakas "Risk assessment of corn curl processing-An application of Failure Mode & Effect Analysis (FMEA), Cause & Effect Analysis and Pareto diagram in conjunction with HACCP" University of Thessaly, Greece	18:45-19:00 Y. Bozkurt 1, S. Aktan and S. Ozkaya "Prediction of Carcass Weight and Some Carcass Characteristics of Beef Cattle using Digital Image Analysis" Suleyman Demirel University, Isparta, Turkey	18:45-19:00 K.G. Malkakis, E.E.Golia, I.G. Stamatopoulou, S.A.Floras, I.K. Mitsios "Study of spatial variability of available phosphorus (Olsen), boron, nitrates and nitrites in Almyros region (Central Greece), using geostatistics" University of Thessaly, Greece
		19:00-19:15 Psilovikos, N. Gitsakis, M. Kotopouli, M., Sapountzis and G. Dimou "Time Series Models Using Recurrence Analysis and Neural Networks" University of Thessaly, Greece.
		19:15-19:30 G. Sarlikioti, E. E. Golia, A. Dimirkou, I.G Stamatopoulou, and I. K. Mitsios "Study of the Behavior of Physical Solid Materials for the Improvement of Polluted Soil With CD" University of Thessaly, Greece
19:30-20:30 General Assembly – Closing Conference		
Panel: S. Tzortzios , (Chair of HAICTA2006 Organizing Committee), N. Dalezios , (Chair of HAICTA2006 Scientific Committee), E. Koch , (Chair of COST 725) M. Vlachopoulou , (Vice-President of HAICTA-North Greece), A. Sideridis (Representative Bioagro-President of HAICTA)		
21:30 Gala Dinner		

Saturday, 23 September Hotel Main Hall

10:00 **Excursion to the famous mountain PELION by the small train "Mountzouris" - Lunch in the wonderful village "Milies".**

POSTER SESSION

A. Thursday, 11.30-19.30

A.1	<p>Pablo P.J.D Jimeno. "Intelligent Decision Support Systems Applied to the Prediction, Diagnosis and Treatment of Fungal Diseases on Vineyards" Inkoa sistemas S.L. I+ D Department. Spain</p>
A.2	<p>Giorgio Peri, Roberto Romaniello "Quality inspection of industrial bread by image analysis" Università degli Studi di Foggia, Dipartimento PR.I.M.E, Foggia, Italy</p>
A.3	<p>Eve Veromann, Anne Luik, Reelika Kevvõi "Impact of nematode Steinernema feltiae on the abundance of a new generation of pollen beetle (Meligethes aeneus Fab.) and its larval endoparasitoid Diopsilus capito Nees in a spring oilseed rape field in Estonia " Department of Plant Protection, Estonian University of Life Sciences, Estonia</p>
A.4	<p>G. Dimokas, C. Kittas and M. Tchamitchian "Model-based Climate Management during Winter Period in Mediterranean Greenhouses" University of Thessaly, Greece</p>
A.5	<p>H.R.Naseri, H.Azarnivand, F. Sefidkon, Y. Asri "Essential oil composition of Artemisia absinthium L." University of Tehran, Karaj, Iran</p>
A.6	<p>M. Musa Özcan , Jean-Claude Chalchat, Derya Arslan "Comparative essential oil composition of bitter fennel (Foeniculum vulgare subsp. piperitum) fruit oils obtained during different vegetation" University of Selcuk, Konya, Turkey</p>
A.7	<p>Luminita Livia Bârliba, C. Bârliba, S. Chiş "The carrying out of the cadastral works for taking from the agricultural circuit of a plot situated in the extended rural area of the commune Moşniţa Nouă , Timiş County, Romania" Banat's University of Agricultural Sciences and Veterinary Medicine, Timisoara,Romania</p>

B. Friday, 11.30-19.30

B.1	<p>Luminita Livia Bârliba "The application of property laws in the forestry Cadastre regarding the reconstruction of property right upon the forests from the locality Pişchia, Timiş County, romania" Banat's University of Agricultural Sciences and Veterinary Medicine, Timişoara, România</p>
B.2	<p>Matsoukis, A. Kamoutsis, A. Chronopoulou-Sereli, C. Lilis and Z. Adamidou "VITIS VINIFERA L. Phenology as affected by air temperature in Kavala, Greece" Agricultural University of Athens, Greece</p>
B.3	<p>Vasileiou A , Maris F, Iliadis L "Estimation of sediments' load in the "Lyra" forest-dam area using GIS"</p>
B.4	<p>Rohollah Rezaee "Factor analysis of influencing factors on adoption of sustainable agriculture among wheat farmers of Zanjan province, Iran" College of Agriculture, University of Tehran, Karaj – Iran</p>
B.5	<p>Zita Bihari, Sándor Szalai "Estimation of daily pollen concentration of Ambrosia elatior by meteorological parameters" Hungarian Meteorological Service</p>
B.6	<p>Szabolcs Bella, Sándor Szalai "Drought Vulnerability, Changing of Vulnerability of Southern Transdanubium, Hungary" Hungarian Meteorological Service</p>
B.7	<p>WATER BALANCE MODELING BASED ON NOAA/AVHRR SATELLITE DATA E. Hondronikou , Chr. Domenikioths and N.R. Dalezios University of Thessaly, Greece</p>