

Agricultural Informatics 2014

International Conference

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Future Internet and ICT Innovation

13-15 November 2014

University of Debrecen



Agricultural Informatics 2014 International Conference
Future Internet and ICT Innovation in Agriculture, Food and the Environment
13-15 November 2014, Debrecen, Hungary

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- UD University of Debrecen, Faculty of Applied Economics and Rural Development
- HAAI Hungarian Association of Agricultural Informatics
- HAS Debrecen Regional Committee of the Hungarian Academy of Sciences, Agrarian-economy Committee
- EFITA European Federation for Information Technology in Agriculture, Food and the Environment

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- Corvinus University of Budapest, Faculty of Horticultural Science, Department of Biometrics and Agricultural Informatics
- University of Pannonia Georgikon, Faculty Department of Economic Methodology
- University of Szeged, Faculty of Engineering
- Kaposvár University
- Hungarian Association for Geoinformation (HUNAGI)
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Invited Keynote Speakers

Mr. Zsigmond Richard (National Food Chain Safety Office, Hungary)



Mr. Richard Zsigmond works for the Hungarian National Food Chain Safety Office (NÉBIH) since 2007 as the director of Agricultural Department. Earlier he used to work for Agricultural Technical Administrative Office, which was the predecessor in title of the NEBIH. He is a member in the Monitoring Committee of the Hungarian Fisheries Operational Program; member of National Game Management Counsel, and represents Hungary in the EU in Fisheries Control Expert Group Meetings of Illegal Unreported and Unregulated Fishing. The Directorate under his guiding coordinates and has control over the 19 Agricultural Offices of Hungarian Administrative Offices. Beside the surveillance of the offices' administrative duties in sustainable agricultural, fisheries and game management, the Directorate is responsible for the launch of 5 statewide registration systems, as well as for the operation, surveillance and for the development of these IT systems. In the last 7 years the Directorate has established and has control over the followings: Emission Registration System of Greenhouse Effect Biofuels (BÜHG); Statewide IT Registration System for Family Cooperations and Private Agricultural Producers; Under its duty in fish management the Department has established the electronic Registration System of Sport Fishing Licences (SZÁK); Started the electronic purchasing system of state angling tickets (TUHIR); As a consortium partner of six members also participated in the implementation of a project, named „IT system of official agricultural damage assessment support” (MKR).

Prof. Jerzy Weres (Poznan University of Life Sciences, Poland):

Applied informatics in agricultural and biosystems engineering – software supporting research of thermo-mechanical behavior of agri-food and forest products



Prof. Jerzy Weres is Head of the Department of Applied Informatics, Poznan University of Life Sciences, Poznan, Poland. Vice Chair of the CIGR Section VI: Bioprocesses; Head of the National Committee for Cooperation with CIGR; Head of the Informatics Section of the Committee of Agricultural Engineering of the Polish Academy of Sciences; Honorary President of the Polish Society for Information Technology in Agriculture, Forestry and Food production (POLSITA), Vice Chair of the Council of Users, Poznan Supercomputing and Networking Center. Past functions: CIGR Executive Board; EFITA Board; Computational Science Section of the Committee on Informatics of the Polish Academy of Sciences; co-founder and President of POLSITA; founder and Head of the Computer and Network Center of the University. Active member of numerous scientific councils, editorial boards and societies. Research specializations: software engineering, programming Web-based advisory applications for agriculture, semantic Web, FEM algorithms, coefficient inverse problems, 3D geometry modeling and visualization, heat and water transport in agri-food products.

Dr. Walter Mayer (Progis GmbH, Austria):

Sustainable intensification, integrated technology support, cooperation of stakeholders – the way forward – but how?



Walter H. MAYER is founder and CEO of PROGIS Software GmbH. He has been involved in the PC hard- and software since 1978 and has built up as distributor the Apple and Acer market in Austria. From 1994 Mr. Mayer started as one of the very few European GIS (= Geographical Information Systems) supplier the development of PC-based GISproducts (WinGIS...) that are successfully sold world-wide via a distributor network. Further he could initiate the set up of an Advanced Technical College for Geoinformatics nearby the PROGIS location in Villach/Austria. As a result of his long lasting experience as consultant for ecology, agriculture and forestry – Mr. MAYER studied agrosience and forestry (MSc) and is still running his own agro/forest enterprises as well as heading a consulting office in this field – he introduced with WinGIS-AGROOffice a complete new model of an integrated and GIS based agro/forestry software to handle private farmers/forest enterprises as well as governments EDP needs, including traceability, precise farming, ecology etc

Mr. Vilmos Nemeth (National Innovation Office, Hungary):

Future Internet in Hungary and in the EU H2020



Mr. Vilmos Nemeth works for the National Innovation Office (NIH) as a counsellor for the Department of International Affairs. His main job is the coordination of the national Future Internet (FI) activities and the promotion of EU FI initiatives and programmes. He also represents Hungary in the EU H2020 Transport Programme Committee. He received his M. Sc. degree in physics at the Eötvös Loránd University in 1984. Then, he worked for the Research Institute for Microelectronics, Central Research Institute for Physics of the Hungarian Academy of Sciences (MTA KFKI) in the field of physics and technology of semiconductor devices. In 1992 he joined the Ministry of Education, where his duties embraced information technology of the higher educational institutions and international cooperation in science and technology. In 1999 he changed his career and was employed by Research and Development Center of Ericsson Hungary Ltd in Budapest. At the same time he was assigned to the director of the Inter-University Centre for Telecommunications and Informatics (ETIK) at the Budapest University of Technology and Economics. Between 2009 and July of 2011 he led the Programme Planning Department of the National Office for Research and Technology (legal predecessor of the NIH). He organized the Future Internet related ICT events during the Hungarian EU Presidency in the first half of 2011. He initiated the establishment of the Future Internet National Technology Platform and the Hungarian IPv6 Forum, and also contributed to the launch of national Future Internet research and innovation programmes. He is a founding member of the EU's Future Internet Forum.

Katalin Viola (Campden BRI):

Future Internet Technologies and Funding for Agri-Food, Logistics, Transport and Manufacturing, introduction of the FINISH project



Viola Katalin Graduated on BSc level as an agribusiness and rural development engineer on the Faculty of Economics and Social Sciences of Szent István University in Gödöllő, focusing on Agrobusiness. Then she graduated on MSc level as an economist of marketing, focusing on Marketing Knowledge and Information Management. She performed her traineeship at Campden BRI Hungary Ltd. and in Institute of Regional Economics and Rural Development of Szent István University. She has been working at Campden BRI Hungary Ltd. for 3,5 years as a development engineer.

She participates in agri-food researches and international projects such as SmartAgrifood, FoodManufacture, CoolSave and Capinfood projects; in addition she participates in the work of department Sensory and Consumer Sciences, as organizing and carrying out sensory assessments, and making their evaluations and reports.

Prof. Charles Burriel (Agrosup - Dijon, France):

Knowledge databank in the AgroFE Project



Prof. Charles Burriel is Professeur Agrégé – Management & and applied Computing AGROSUP-EDUTER Dijon – France. DES es Sciences Economiques; Agrégation d'économie et gestion; Maitrise de Sciences Economiques; Maitrise de Géographie Economique et Gestion. Teaching experience: MSc, Information System Management (Agrosup), B in A&H: ICT for non-specialist (University of Burgundy), Distance learning about Digital culture, Communication for Engineer and researcher (Agro Paris Tech), Applied Training sessions - 2/year. His responsibilities: Coordinator of Certi-Org LLP EU project (Certification for

handicapped people); Coordinator of AgroFE LLP EU project (Certification in Agro-Forestry). Contributions: Regional Council: advice and studies related to ICT in local – regional development and in rural areas; CanalAgri/AgriWebTv: diffusion of 'Agriculture' related professional information; Watch / survey / studies: Collaborative working, Digital video, Richmedia in the context of distance learning.

Dr. Thomas Banhazi (University of Southern Queensland, Australia):*Information management on livestock farms - scientific and commercial experiences*

Associate Professor Thomas Banhazi is a Principal Scientist at the National Centre for Engineering in Agriculture, University of Southern Queensland and his expertise is mainly related Precision Livestock Farming applications. However, his research interests also include thermal and aerial environment of livestock buildings, the effect of airborne pollutants on the health of animals and workers, emission abatement and livestock waste management. He obtained a number of competitive project grants throughout the years and his work included the development of emission abatement techniques, environmental monitoring systems, feed-intake sensors, image based weighing systems and predictive equations for the concentration and emission of airborne pollutants in/from livestock buildings. Dr Banhazi has published in excess of 170 journal and international conference papers, in addition to the large number of scientific reports, extension articles and seminar papers he also produced. He is the Chair of the CIGR (International Commission of Agricultural and Biosystems Engineering) "Structures and Environment" expert group, as well as the Vice-President of the Australian Society for Engineering in Agriculture (SEAg). In addition he is serving on the executive boards of a number of professional societies, including the International Society for Animal Hygiene (ISAH) and CIGR.

Grigoris Chatzikostas (University of Novi Sad, Serbia):*FRACTALS: FIWARE goes farming*

Grigoris Chatzikostas is the Business Development Manager of BioSense Center, a multidisciplinary research center within the University of Novi Sad. His main duty in BioSense is to foster win-win collaborations among researchers, ICT companies and end-users. His experience includes writing proposals for EU funding and coordinating large-scale projects for the introduction of ICTs in agriculture and environmental monitoring. In the past 12 years he has managed projects of total value that exceeds 30 mEUR. He is also acting as the operating manager of PA4ALL, the first Living Lab in Europe engaged in Precision Agriculture, with a mission to bridge the mentality gap between ICT developers and farmers through open innovation. He is currently involved in FRACTALS, a FIWARE Accelerator that supports ICT SMEs and startups in the development of innovative apps for agriculture.

Agricultural Informatics 2014 International Conference

Programme at Glance

	Thursday (13/11/2014)			
13.30-13.45	Registration Desk Open (Building N Room 17)			
13.45-15.30	Workshop 1 - Changehabitats2 / AgroFE (Building N Room 17)			
	Networking Break			
16.00-18.00	Workshop 2 - Changehabitats2 / AgroFE (Building N Room 17)			
	Friday (14/11/2014)			
08.00-12.30	Registration Desk Open (Lecture Room 104, Building TVK, Ground floor)			
08.00-09.45	PROGIS WinGIS Workshop 1 (Room 13, Building TVK Ground floor)			
10.00	Opening Ceremony (Lecture Room 104, Building TVK, Ground floor)			
10.20-12.30	Plenary Session Keynote Addresses (Lecture Room 104, Building TVK, Ground floor)			
12.30-14.00	Lunch Break at your own expense			
	Building D, Ground Floor, Computer Rooms			
	Room 1	Room 2	Room 3	Room 4
	A1	B1	C1	D1
14.00-15.30	HAAI-HAICTA Videoconference Session - EN	Paper Session - EN	FUTURE INTERNET EN - HU (HU FI NTP AgriFood Chapter) WORKSHOP	Paper Session - HU
15.30-16.00	Break			
	A2	B2	C2	D2
16.00-17.30	HAAI-HAICTA Videoconference Session - EN	PROGIS WinGIS Workshop 2 - EN	Paper Session - HU	Paper Session - EN
17.30-	Business Networking			
	Saturday (15/11/2014)			
09.00-15.00	Workshop in Püspökladány - Changehabitats / AgroFe Workshop - Field Trip / Demonstrations / Practical Exercises			

Programme

Thursday (13/11/2014)

13.30	Registration	
13.45	Welcome Speech by dean István Komlósi	
14:00-15:30	Workshop1 - Changehabitats2 / AgroFE (Building N, First floor, Lecture Room 17)	
	Chairs: János Tamás / Susanne Rahner	
WS11	Charles Burriel (Agrosup, France)	Knowledge databank in the AgroFE Project (Videoconference presentation)
WS12	Susanne Diemer, Petra Wirth, Andreas Löhr	The Habitat Mapping and Assessment Procedure in Germany - An Example of the Land Brandenburg
WS13	Éva Bozsik, Bernadett Gálya, János Tamás, Péter Riczu, Stelian Nistor, Charles Burriel, Hermann Heilmeier	The assessment of establishing green corridors among Natura2000 sites across Hungarian-Romanian border
WS14	Adam Kania, Susanne Rahner, János Tamás	Visualization methods of remote sensing based vegetation maps for habitat monitoring
WS15	Lajos Blaskó, Róbert Czimbalmos	Possibilities of agro-forest establishment in environment with Solonetz soil
WS16	Ribana Linc, Iulian Dincă, Marcu Staşac	Peța brook nature reserve - an eco-epopee

Coffee break

16.00-18.00	Workshop2 - Changehabitats2 / AgroFE (Building N, First floor, Lecture Room 17)	
	Chairs: László Várallyai / Nistor Stelian	
WS21	Rédei Károly	A magyar erdőgazdálkodás jelene és jövője
WS22	Bozsik Éva, Gálya Bernadett, Riczu Péter, Tamás János, Herdon Miklós, Charles Burriel	Európai és hazai mezőgazdasági erdészeti tapasztalatok a II. Agrárerdészeti Konferencia tükrében / European and national experiences in agroforestry through the II nd Agroforestry Conference (Cottbus, Germany)
WS23	Gálya Bernadett, Bozsik Éva, Riczu Péter, Blaskó Lajos, Tamás János, Deák Balázs, Stelian Nistor, Hermann Heilmeier, Charles Burriel	Sótartalom térbeli heterogenitásának térinformatikai vizsgálata
WS24	Herdon Miklós, Tamás János, Várallyai László, Botos Szilvia, Nistor Stelian, Pancsira János	Mezőgazdasági erdészet oktatásának informatikai háttere
WS25	Rásó János, Csiha Imre	Újabb módszerek az erdészeti termőhely minősítésben
WS26	Riczu Péter, Tamás János, Herdon Miklós, Charles Burriel	Mobil térinformatikai alkalmazások lehetőségei a mezőgazdasági erdészetben
WS27	Keserű Zsolt	Agroerdészeti termesztési rendszerek, mint a jövő földhasznosítási formái

About the AgroFE Project

Since there is a lack of training and teaching in agroforestry and the general knowledge about agroforestry is low, the overall objective of the project is to develop a teaching system for agroforestry formation and promotion in Europe. The project aims to build an innovative training system: conceptual, module trainings, with use of ICT and with professional's participation. One of the innovations of the project is a strong participation of professionals in trainings and in qualification process. Significant importance is given to training in context of professional situations, "on the field".

The specific objectives are:

- To produce professional book of references as a support for transfers in training with a common framework and adaptation to local or national context;
- To create knowledge database which will be used for tools and training resources and which will also integrate existing resources;
- To implement experimentation in initial training in individual countries;
- To develop a certification system for all levels of education adapted to particular country education systems and needs.

Friday (14/11/2014)

09.00-12.30	Registration Desk Open (Building TVK, Ground floor, Lecture Room 104)	
10.00	Opening Ceremony (Building TVK, Ground floor, Lecture Room 104)	
	Welcome Speeches by Miklós Herdon chair of Program Committee Dean Károly Pető Vice-rector András Nábrádi	
10.20-12.30	Plenary Session (Building TVK, Ground floor, Lecture Room 104)	
	Chair: József Popp (Head of Károly Ihrig Doctoral School of Management and Business)	
P1	Zsigmond Richárd (National Food Chain Safety Office, Hungary)	A hatósági agrárkár-megállapítási eljárást támogató informatikai rendszer (IT system of official agricultural damage assessment support)
P2	Jerzy Weres (University of Life Science, Poznan, Poland)	Applied informatics in agricultural and biosystems engineering – software supporting research of thermo-mechanical behavior of agri-food and forest products
P3	Walter Mayer (Progis GmbH, Austria)	Sustainable intensification, integrated technology support, cooperation of stakeholders – the way forward – but how?
P4	Vilmos Németh (National Innovation Office, Hungary)	Future Internet in Hungary and in the EU H2020
P5	Katalin Viola (Campden BRI, Hungary)	Future Internet Technologies and Funding for Agri-Food, Logistics, Transport and Manufacturing, introduction of the Finish project
	Announcements	
	Mónika Varga (national representative, Hungary)	Organizing the Hungarian Chapter of Young Professionals for Agricultural Development
	Jerzy Weres (Poznan, Poland)	EFITA / WCCA 2015 Congress

Lunch Break at your own expense

14.00-15.30	A1 Session HAAI-HAICTA Videoconference - EN (Building D, Ground floor, Room 1)	
	Chairs: Zacharoula S. Andreopoulou / László Várallyai	
	Greeting on behalf of HAICTA, Prof. Dr. Mike Salampasis	
A11	Dimitrios Folinas, Dimitrios Aidonis, Panayotis Karayannakidis (Greece)	Greening the canned peach production
A12	Costas Assimakopoulos (Greece)	Antecedents and Consequences of Consumer's Dissatisfaction of Agrofood Products. Is There Any Reaction by Electronic Means?
A13	Athanasios Batzios, Thomas Bournaris (Greece)	Potential users' opinions through research on internet sufficiency of websites concerning women agricultural co-operatives in Greece
A14	Ioannis V. Kirkenidis, Zacharoula S. Andreopoulou (Greece)	e-Learning and the aspect of students in forestry and environmental studies
A15	Christos J. Emmanouilides (Greece), Panos Fousekis (New Zealand), Alexej Proskynitopoulos (USA)	Spatial price linkages in the EU pork market: A causal network approach
	Discussion – Conclusions	

Coffee break

Friday (14/11/2014)**16.00-17.30 A2 Session HAAI-HAICTA Videoconference - EN (Building D, Ground floor, Room 1)****Chairs: Alexandros Theodoridis / Máté Csák**

A21	Györk Fülöp, Gábor Bakó, Boglárka Szabó	Detecting invasive woody increment in agricultural areas with Earth Observation technology
A22	Márta Hunkár, Ildikó Szenyán	Vegetation dynamics from space
A23	János Busznyák	Agriculture in the INSPIRE Directive
A24	István Sisák, András Benő, Mihály Kocsis	Management zone delineation and yield constraints in a field under precision management
A25	Piotr Staniszewski (Trimble product manager EMEA region)	Trimble Connected Farm information management solution
A26	Piotr Staniszewski (Trimble product manager EMEA region)	Trimble Connected Farm information management solution (Live demonstration of Connected Farm Dashboard)

Coffee Break

14.00-15.30 B1 Session - EN (Building D, Ground floor, Room 2)**Chairs: Mónika Varga / Róbert Szilágyi**

B11	Thomas Banhazi (University of Southern Queensland, Australia)	Information management on livestock farms - scientific and commercial experiences (Videoconference presentation)
B12	Mónika Varga, Sándor Balogh, Béla Csukás	Generation of Direct Computer Mapping Based Simulation Models for Agri-food and Environmental Applications
B13	Sándor Balogh, Mónika Varga, Béla Csukás	Web-based User Interface for Agri-food and Environmental Applications of Direct Computer Mapping
B14	Linda Egyed, Mónika Varga, Béla Csukás	First Steps toward Direct Computer Mapping Based Scheduling of Dairy Production
B15	András Tankovics, Mónika Varga, Béla Csukás	Possibilities of Direct Computer Mapping Based Modelling in a Dairy Farm
B16	Pavel Šimek, Jan Masner, Michal Stočes	ICT educational tools as a help for socially disadvantaged groups

14.00-15.30 C1 Session FUTURE INTERNET EN - HU (HU FI NTP AgriFood Chapter) WORKSHOP (Building D, Ground floor, Room 3)**Chairs: Kapronczai István / Botos Szilvia**

C11	Grigoris Chatzikostas (BioSense Center, Faculty of Technical Sciences, University of Novi Sad)	FRACTALS: FIWARE goes farming (Videoconference presentation)
C12	Viola Katalin	A Flnish pályázat bemutatása, tájékoztatás a nyílt felhívásokról, és az elnyerhető támogatásról
C13	Herdon Miklós, Botos Szilvia, Szilágyi Róbert	Áttekintés a Jövő Internet agrárgazdasági alkalmazási lehetőségeiről - Az NTP FI Agrár- és Élelmiszeripari Tagozat
C14	Pajna Sándor, Pázmányi Sándor	Agrometeorológiai mérésekre alapozott precíziós mezőgazdasági fejlesztések
C15	Palotay Szilveszter	Az AKI információs rendszereinek továbbfejlesztési elképzelései és a FI technológiák lehetséges alkalmazási területei
C16	Koplányi Krisztián, Hegedüs András	AgroDAT.hu projekt bemutatása - Mezőgazdasági tudásközpont és döntéstámogató rendszer megvalósítása innovatív, komplex szenzorrendszer által gyűjtött nagyfelbontású idősoros adatok alapján

Friday (14/11/2014)**16.00-17.30 C2 Session - HU (Building D, Ground floor, Room 3)****Chair: Rajkai Kálmán / Palotay Szilveszter**

C21	Csipkés Margit	A hulladék alapú energiagazdálkodás a mezőgazdaságban
C22	Cinka István, Várallyai László, Füzesi István	Nyitott rendelések kezelése egy magyarországi nagyvállalatnál
C23	Szilágyi Judit	Multispektrális felvételek vegetációs osztályozása ENVI SVM osztályozási eljárással
C24	Mesterházy Ildikó	A magyarországi szőlőtermesztés éghajlati adottságainak várható változása
C25	Tóth Mihály	Mezőgazdasági robot fejlesztése és jövőbeli bővíthetősége
C26	Kovács Tamás	Agrárkereskedelmi portál fejlesztése és közösségi média marketingje

14.00-15.30 D1 Session - HU (Building D, Ground floor, Room 4)**Chairs: Gaál Márta / Huzsvai László**

D11	Kocsis Mihály, Tóth Gergely, Makó András, Rajkai Kálmán	Magyar mezőgazdasági információk adatbázisának (AIIR) bemutatása és hasznosíthatósága
D12	Csák Máté	Burgonya vásárlási- és fogyasztási szokások Magyarországon egy Pannon egyetemi felmérés tükrében
D13	Huzsvai László, Szőke Szilvia	A pontozáson alapuló pályázati értékelés problémája Szimuláció R-ben
D14	Füzesi István, Rotkai Petra, Windhager Anna	"Programlista" turisztikai információs portál fejlesztési projekt tapasztalatai
D15	Lengyel Péter, Pancsira János	Új portálok bevezetése a Debreceni Egyetem Böszörményi úti Campusán

16.00-17.30 D2 Session - EN (Building D, Ground floor, Room 4)**Chairs: Béla Csukás / Pavel Šimek**

D21	Oana Bianca Oprea, Cristina Popovici, Liviu Gaceu (University of Brasov)	Aspect regarding the use of renewable energy into vegetable farms of agritouristic pensions (Videoconference presentation)
D22	Cristina Popovici, Oana Bianca Oprea, Liviu Gaceu (University of Brasov)	Iodine food fortification: biological effects and safety aspects (Videoconference presentation)
D23	Balázs Székely, Adam Kania, Tibor Standovár, Hermann Heilmeyer	Extracting spatial relationships of laser scanned point clouds of vegetation using lacunarity
D24	Lotta Zoch, Christoffer Lange-Kabitz, Stelian Nistor, Mihai Vlaicu	Strategies of conservation biodiversity in Lower Saxony (Germany)

Friday (14/11/2014)

PROGIS WinGIS Workshop - EN		
08:00-09:45	Part I (Building TVK, Ground floor, Room 13) Bernhard Aigner (PROGIS Software GmbH, Villach, Austria)	PROGIS Software GmbH enables ICT developers to link the Geospatial Engine WinGIS, in combination with the embedded Bing Maps module to any database application based on the ActiveX developer component AXWinGIS. WinGIS provides a wide range of GIS functionalities, modules (thematic maps, ISO module, GPS modules, geocoding module) and interfaces (import / export / GPS / WMS). This is a unique solution, bringing together the advantages of an easy to use, cost efficient and versatile GIS software - WinGIS - and the outstanding potential of Microsoft products and online services like Bing Maps.
WS1		
16:00-17:30	Part II (Building D, Ground floor, Room2) Bernhard Aigner (PROGIS Software GmbH, Villach, Austria)	
WS2		

Saturday (15/11/2014)

9.00 - 15.00	Changehabitats / AgroFe Workshop - Field Trip / Practical Exercises
	Place: National Agricultural Research and Innovation Centre - Forest Research Institute (Püspökladány, Hajdú-Bihar County, Hungary)
	Topic: NATURA2000 habitat mapping of agroforestry and salty grassland - MobilGIS technology in practice (local organizer Forestry Committee and Water Management Committee of Hungarian Academy, Debrecen)

About the CHANGEHABITATS2 Project

The aim of CHANGEHABITATS 2 is the initiation of a long lasting intersectoral and international network in the field of environmental monitoring between industry and academia. Its aim is to develop operable, time and cost effective procedures, and (software) solutions for monitoring habitats using innovative airborne data acquisition techniques. Within the project two complementary data acquisition methods which are currently becoming established in the market will be concentrated on: airborne laser scanning and airborne hyperspectral imagery. These methods will be evaluated and their potential for manual and automatic derivation of habitat parameters ' an unsolved problem so far ' will be investigated for selected sites. Added value of the developed methods beyond habitat mapping will be explored, e.g. for river basin management. These aims will be achieved by tight integration of data producers, data processors and end users, building the network both from industry and academia. The project will support EU's NATURA2000 Directive, which prescribes repeated monitoring of over 50 million ha of habitat sites in Europe. The complexity and importance of habitat monitoring by airborne techniques will ensure close cooperation within the network beyond the project duration. Cost savings in an order of up to 3.4 Billion Euros at European level could be achieved by reducing expensive and laborious field work for habitat mapping by automated analysis of airborne sensed data, which is cheaper in acquisition and more homogeneous than subjective perception during the field work. The contributing SMEs will gain economic benefits and clear competitive advantages. For device manufacturers a new market for data acquisition devices will be opened, and for service providers faster and more accurate habitat mapping will result in enlarged project execution capacity, supporting national and regional administrative bodies in their environmental protection duties.

Conference Location

University of Debrecen, Böszörményi str. Campus
H-4032 Debrecen, Böszörményi str. 138., Hungary

Changehabitats / AgroFE Workshop

Building N, First floor, Lecture Room 17

Plenary Session

Building TVK, Ground floor, Lecture Room 104

Videoconference & Paper Sessions & Future Internet Workshop

Building D, Computer Room 1, 2, 3, 4

Registrations

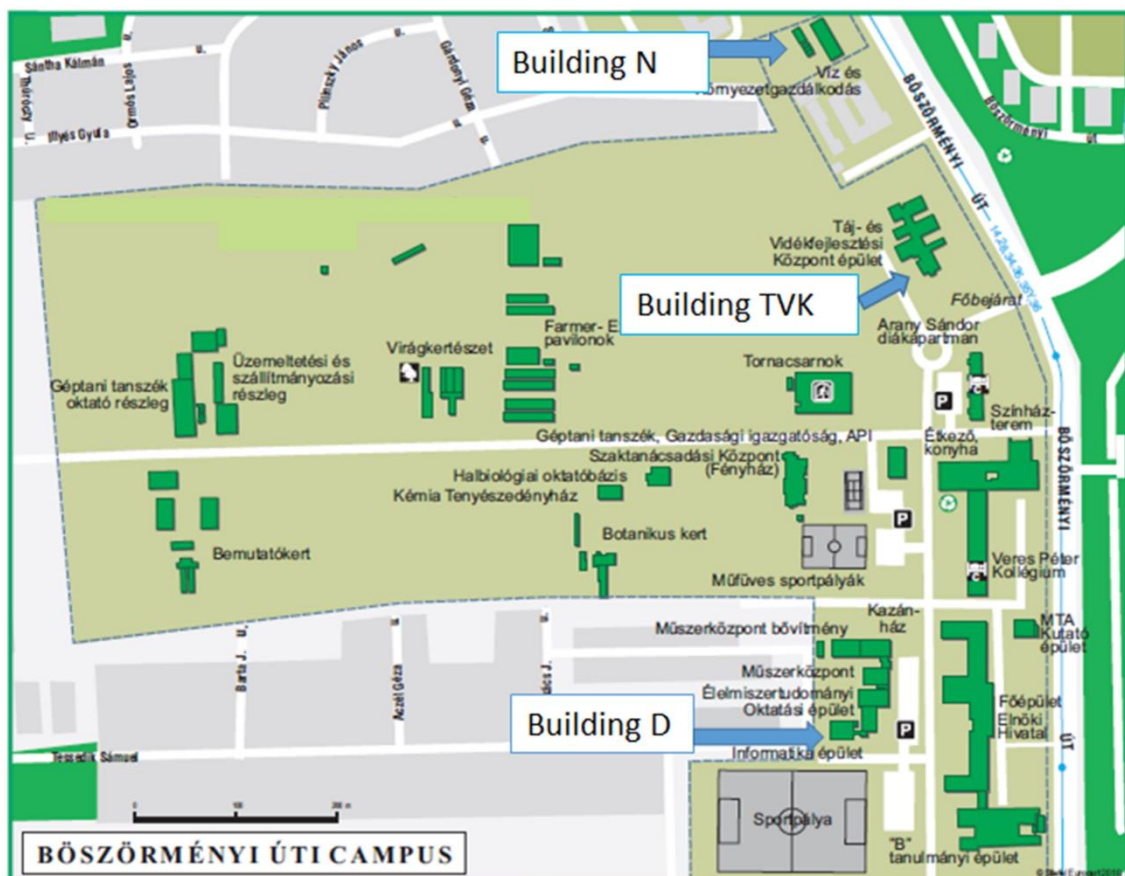
13/11/2014 13:30-13:45 (Building N, first floor, Lecture Room 17) (Workshops)

14/11/2014 09:00-12:30 (Building TVK, ground floor, Lecture Room 104) (Plenary Session)

Business networking (14/11/2014, 17:30-19:30):

Building D

Campus Map



NOTES