PARTICIPANT’S GUIDE

2017 EFITA WWCA CONGRESS

European conference dedicated to the future use of ICT in the agri-food sector, bioresource and biomass sector

Montpellier, France – July 2nd - 6th
Welcome to 2017 EFITA WCCA congress!

After Italy and Poland, the 11th edition of the EFITA conference takes place in Montpellier, France. It is with great pleasure that we welcome you at the Ecole Montpellier SupAgro for three days of exchange around the theme of ICT and agriculture.

The conference is supported by the European Federation for Information Technology in Agriculture, Food and the Environment (EFITA), and is also a World Congress on Computers in Agriculture and Natural Resources (WCCA) on behalf of the International Network for Information Technology in Agriculture (INFITA).

The review process allowed for 82 oral presentations, 20 posters and 15 demonstrations. We would like to thank all the people involved in this process.

ICT is clearly today a main breed of innovation in agriculture and the food sector. Therefore, we organized the conference in order to foster exchanges between scientific communities and actors from the production and the economy.

On behalf of the organizing structures, Irstea, Montpellier SupAgro, AFIA and the digital networks of technical agricultural institutes we wish you a good conference.

JP Chanet, O. Naud, B. Tisseyre
The Presidents of the Organizing Committee

- 2017 EFITA WCCA CONGRESS -
EFITA

EFITA is the European Federation for Information Technology in Agriculture, Food and the Environment. Its mission is to facilitate the exchange of information and experience, the development of knowledge in the area of ICT in agriculture, food and the environment in order to enhance the competitiveness of Europe and to promote the awareness of ICT in agriculture, food and environment.

ORGANIZERS

SPONSORS AND SUPPORTS
PARTICIPANT’S GUIDE

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   d. SupAgro Map and Bus meeting point

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III. SOCIAL PROGRAM
   l. Guided tour of Montpellier
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   n. Gala dinner

YOUR WELCOME PACK

You will find here all the documents necessary for your stay:
- The proceedings book with all the extended abstracts of the regular congress communications;
- A USB stick containing the full papers of the regular communications and the invited communications (IN-OVIVE session);
- Your vouchers for Mon - Wed lunches at the Restaurant “La Marmite”;
- Your gala, guided tour and/or technical tour tickets (according to your registration);
- One bus/tram ticket available for 4 days from the first validation;
- Two maps of Montpellier.

- 2017 EFITA WCCA CONGRESS -
SUPAGRO PLAN
La Marmite Restaurant

Restaurant
La Marmite

Congress location

General entrance

- 2017 EFITA WCCA CONGRESS -
SUPAGRO PLAN
Bus meeting point

Congress location
General entrance
Bus meeting point

- 2017 EFITA WCCA CONGRESS -
Monday morning:
Kun Mean Hou: IoT for precision agriculture – trend and challenges

Kun Mean Hou is a full professor and he leads the SMIR group of the laboratory LIMOS UMR 6158 CNRS (Université Clermont Auvergne, France), working on the development of the core technology dedicated to Wireless Sensor Network. He is involved in several scientific committees and boards. He is an ICT-AGRI EU expert. His areas of expertise are WSN, WMSN and IoT.

See abstract of the keynote lecture in the proceedings

Monday afternoon:
Guy Faure: Characteristics of innovation processes regarding the TIC and the role of research to contribute to such innovation processes

Dr. Guy FAURE is the director of the “Innovation in Agricultural and Agri-food systems” Joint Research Unit in Montpellier (France). The unit carries out research on innovation system, capacity to innovate of rural actors, impact of innovation on rural development. In the field of management science he is conducting research on two main topics: (i) Advisory services including methods and tools to strengthen advisory and extension service providers, (ii) “innovation systems”, linking economic players with research centers, advisory services, farmers’ organizations, and private companies.

See abstract of the keynote lecture in the proceedings
Tuesday morning:

Dr. Karel Charvat: Open Data and Rural Communities

Dr. Karel CHARVÁT is Doctor in theoretical cybernetics of the Mathematical Physical Faculty of Charles University in Prague. Currently, he is vice chairman of the Club of Ossiach, member of CSITA, Former President of European Federation for Information Technology in Agriculture Food and Environment (EFITA) and evaluator of EC projects. His key qualifications are SDI design, strategic studies and management of projects in ICT and SDI. His areas of expertise are GIS, Precision farming, ICT for Agriculture, Remote Sensing, Big Data and Open Data. Karel works today in LESPROJEKT-SLUŽBY Ltd. This small innovative firm has a vast experience in transferring research results. LESPROJEKT-SLUŽBY Ltd plays a crucial role in the market for more than 20 years and focuses mainly on commercial activities in, forestry, agriculture, rural development, and transport. 

Dr Charvat will introduce the panel session about data and open data.

Tuesday morning:

Pascal Neveu: Needs in semantics and Big Data structuration in relation to integration needs and new methods in data analytics.

Pascal Neveu is director of Mistea Laboratory at Montpellier SupAgro-INRA. He is the head of INRA Cati CODEX, center dedicated to data and knowledge management. He leads workpackages dedicated to data and knowledge management in several international projects. He teaches at the Montpellier University and the School of Agricultural Engineering topics related to computer science, numerical computing and information management. His area of expertise is Data sciences, Heterogeneous data source management and Data semantic. Pascal works in INRA, a french agricultural research institute. It conducts research to address major societal challenges: stabilize global warming, food security, ensure the energy transition, build agriculture of the future and prepare Open Science and Big Data.

See abstract of the keynote lecture in the proceedings.

- 2017 EFITA WCCA CONGRESS -
Today, the volume of agricultural data created and collected by the farmers’ digital tools, all different from each other, is increasing incredibly fast. Several companies and research institutes all over the world are running new projects and are building business models to help the farmers and/or the contractors to use those data for better yields and achieve a more sustainable agriculture. But lots of questions and issues remain: Open data’s format, interoperability, collect and transport, security and trust, common legislation, property...

With the journalist Emmanuel Diner, come to the EFITA’s panel July 4th and discuss with our 6 speakers:

- **Esteban Feuerstein**: CEO at Sadosky Foundation – Associate Professor and Researcher at University of Buenos Aires – Argentina
- **Johannes Keizer**: Member of the GODAN secretariat and responsible for strategic Partnerships, former FAO’s representative – Italy
- **Bruno Prépin**: Director at AGRO-EDI Europe – France
- **Agnès Robin**: Researcher and professor at University of Montpellier – Intellectual property’s specialist – France
- **Bernhard Schmitz**: Commercial Manager EME, AGCO International GmbH – Germany
- **Mehdi Siné**: CTO & CDO at API-AGRO, ACTA and Arvalis Institut du Végétal – France.

- 2017 EFITA WCCA CONGRESS -
ICT-AGRI Era-net for sustainable food and agriculture

Subtopics: Seven years with ICT-AGRI; Strategic Research and Innovation Agenda; Priorities for the next ICT-AGRI.

ICT-AGRI is an ERA-NET for ICT and robotics for a sustainable agriculture. The main goal of this workshop is to consult the research and developer community concerning the Strategic Research and Innovation Agenda and the priorities for the next ICT-AGRI. ICT-AGRI is preparing a Strategic Research and Innovation Agenda which is intended for general use by national and international funding organizations, and ICT-AGRI is organizing calls. The workshop is of interest for researchers and developers seeking funding for their projects. The workshop format is: Introduction to the workshop and the topics/Participant contributions in a World Café style/Wrap up.

The workshop is open to all conference participants

Open data in Agriculture workshop
Organized by GODAN and ACTA (the French network of plant and animal production institutes) on Tuesday.

- 2017 EFITA WCCA CONGRESS -
Online teaching and active learning: Flipping the classroom

The objectives are for the participants to:
1. Describe flipped classroom principles and pedagogy.
2. Identify required resources for successful delivery of a course in a flipped classroom format.
3. Understand the foundational skills required to develop online and face-to-face materials for flipped classroom delivery.

The workshop will be conducted as a presentation focused on introductory concepts related to:

- **Online learning.** A review will be conducted of online teaching/learning experiences by diverse institutions with a special focus on improving quality of learning and reducing the cost of instruction. In addition, the ADDIE methodology will be presented to familiarize teaching faculty with the development process of an online course. Barriers and conditions for success will be reviewed, including: required services and infrastructure, faculty and student competencies and skills, and required operational support.

- **Flipped classroom.** The flipped classroom methodology will be presented, including learning theory, research findings, and the development and implementation of course modules for use with this innovative pedagogy.

This workshop is organized by the University of Turin, dept. DISFA. DISFA has an active collaboration with the University of Florida for what concern innovative learning methods.

Professors, extension service specialists who want to improve their educational skills are welcome.
SCIENTIFIC PROGRAM
Sessions: Program for Monday

08:30  Desk opens

09:00  PLENARY - Amphi Lamour
Welcome word, congress program presentation
presentation of support partners
keynote speaker Kun Mean Hou
Flash presentation of posters n°1 (remote)

10:45  Coffee break

11:10  SESSIONS – end 13:00

Remote
Remote sensing and planning
Amphi Lamour

IN-OVIVE
Amphi 206

Sense&Rob1
Sensing, robotics and electronics for agriculture
Amphi 208

13:00  Lunch time

14:30  PLENARY - Amphi Lamour
Flash presentation of posters n°2 (sensing)
Flash presentation of posters n°3 (ICT for farming)
keynote speaker Guy Faure
Flash presentation of posters n°4 (big data & semantics)

15:50  Coffee break

16:10  SESSIONS end 18:00

Sense&Rob2
Sensing robotics and electronics for agriculture
Amphi Lamour

Know
Semantic interoperability and knowledge management
Amphi 206

ICTFarm
ICT for farming, management and optimisation
Amphi 208

On-line teaching Workshop
By R Berruto & P Busato
1 hour
Room 106

18:15 and guided tour - Bus meeting point - 2 departure times
(For those registered)

18:45  EFITA prospective (on invitation) – Room 106

For schedule details within sessions please check:
http://easychair.org/smart-program/EFITA2017/

- 2017 EFITA WCCA CONGRESS -
08:00  *EFITA board members meet in Room 106 (on invitation)*
till 09:00

08:30  *Desk opens*

09:00  **PLENARY - Amphi Lamour**  
*Introduction by keynote speaker Karel Charvat*  
*Panel session on Data and Open data*

11:00  *Coffee break*

11:20  **SESSIONS end 13:10**

13:10  *Lunch time*

14:30  **Plenary - Amphi Lamour**  
*Flash presentation of posters n°5 (simulation)*  
*keynote speaker Pascal Neveu*

15:35  *Coffee break*

15:55  **SESSIONS end 17:45**

18:00  **EFITA ASSEMBLY - Amphi Lamour**

19:15  **Gala dinner – Bus meeting point** (for those registered)

18:00  Poster uninstall *(remove them latest Wednesday before 11:00 to let room for demonstrations)*

- 2017 EFITA WCCA CONGRESS -
8:30
Desk opens *(Please uninstall posters if not done already)*

9:00
**SESSION** end 10:50

- **ICTFarm**
  ICT for farming: smart farming applications and services
  Amphi 206

- **Simul2**
  Simulation and models for agriculture II
  Amphi 208

10:50
Coffee break

11:10
**SESSIONS** end 13:00

- **ICTFarm**
  ICT for farming: DSS
  Amphi 206

- **Field to Food**
  From field to food: process, networks, e-business
  Amphi 208

- **ICT agri Workshop**
  Room 106

13:00
Lunch time

14:10
EFITA oral communication awards and afternoon introduction - Amphi 206

14:30
**Demonstrations**

- Plenary talk in Amphi 206
- Meet speakers and demonstrations in the hall

**B to B meetings**

- Rooms 106 & 108

18:00
**Final plenary** - Amphi 206
Closing speech

*For schedule details within sessions please check:*

- 2017 EFITA WCCA CONGRESS -
For those registered for the BtoB meetings, come and pick up your BtoB planning in the welcome desk.

For demonstrations, oral presentations of the demonstrations will take place on the amphitheater 206 from 14:30 to 18:00. Authors of the demonstrations, on their stands, will be also ready to discuss and present details of their demonstrations in the hall from 14:30 to 18:00.

<table>
<thead>
<tr>
<th>Stand n°</th>
<th>Presentation time</th>
<th>Demonstration title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>14:30</td>
<td>Vintel – a decision support tool for vine water status monitoring</td>
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<tr>
<td>2</td>
<td>14:44</td>
<td>VITIS: An application for the viticulture research and practitioner communities</td>
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<tr>
<td>3</td>
<td>14:58</td>
<td>BD Avicole : A national database combined to innovative ICT tools for all poultry sectors traceability in France</td>
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<tr>
<td>4</td>
<td>15:12</td>
<td>Data crop project: predict the quality and yield of your wheat field</td>
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<tr>
<td>5</td>
<td>15:26</td>
<td>Decision Support for Agricultural Consultants with Semantic Data Federation</td>
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<tr>
<td>6</td>
<td>15:40</td>
<td>Agricolus smartIPM: a modular approach in Olive Decision Support System</td>
</tr>
<tr>
<td>7</td>
<td>15:54</td>
<td>Bluleaf: a cloud-based Decision Support System (DSS) integrated with smart sensors for the efficient irrigation/fertilization management at farm scale, with relevant case studies.</td>
</tr>
<tr>
<td>8</td>
<td>16:08</td>
<td>API-AGRO: an open platform to share and use data and services</td>
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<tr>
<td>9</td>
<td>16:22</td>
<td>AgriBigCAT: Estimating the Impact of Livestock Agriculture in Catalonia</td>
</tr>
<tr>
<td>10</td>
<td>16:36</td>
<td>CropWin® – Customizable tool for integrated crop management and monitoring</td>
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<tr>
<td>11</td>
<td>16:50</td>
<td>The Agronomic Linked Data (AgroLD) project</td>
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<tr>
<td>12</td>
<td>17:04</td>
<td>PICORE, traceability and manage pesticide treatment</td>
</tr>
<tr>
<td>13</td>
<td>17:18</td>
<td>AgroPortal: an ontology repository for agronomy</td>
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<tr>
<td>14</td>
<td>17:32</td>
<td>Blockchain enabled certification validation in the table grape supply chain.</td>
</tr>
<tr>
<td>15</td>
<td>17:46</td>
<td>AGRIFIND : Agri-consulting and training marketplace</td>
</tr>
</tbody>
</table>
This technical tour concerns only participants already registered for this tour (registration closed since June, 15th).

On Thursday, the tour will start at 09:00 from bus point meeting of Montpellier SupAgro and will end at 16:30 on this same place.

The congress technical tour aims at providing an overview of the Digital Agriculture sector in the region of Montpellier. Therefore it includes several visits of the main local stakeholders:

- The Remote Sensing Center and the GEOSUD Project: Discover the last french trends in geoinformation and earth observation
- A demonstration of the uses of a LIDAR in the vineyards and its application to spraying control by the French Vineyard Institute
- Domaine du Chapitre – Experimental and learning farm of Montpellier SupAgro-INRA: you will discover the practical uses of digital agriculture tools.
- The Agro-Digital Studio: the first incubator in France dedicated to Digital Agriculture
- A demonstration of the mobile application Pl@ntNet: an application for plant identification developed by scientists from a consortium involving CIRAD, INRA, INRIA, IRD, and the Tela Botanica network.

And also a typical country-style lunch from the south of France in the vineyards!
Four trophies will be awarded during the 2017 EFITA WCCA Congress:

- The best poster communication – EFITA jury
- The best poster communication – Vote of delegates
- The best oral student communication – EFITA Jury
- The best oral communication - #DigitAg jury

The best poster awards will be presented during the gala dinner. Authors of the laureate posters will be invited to the gala diner if they do not intend to participate to it. Trophies for the best oral communications will be presented on Wednesday from 14:10 to 14:30 in the amphitheater Lamour.

Delegates: Vote and elect your favorite poster (until Tuesday, 16:00)!

www.efita2017.org/vote
A guide tour of Montpellier is offered to all the congress participants but, because of the limited number of places, a pre-registration is necessary.

Only 20 places left, register quickly at the welcome desk!

The visit will take place on Monday. First departure at the bus meeting point of Montpellier SupAgro at 18:15, second departure at the same place at 18:45. Guided tour lasts 1h30 and ends at the Comédie Square.

Place de la Comédie, Place de la Canourgue, Place du Peyrou... from square to square, we will guide you through the maze of medieval alleyways as you explore Montpellier through the ages. Montpellier hides many secrets and to discover them our guides can open doors which only the Tourist Office has the keys of. A courtyard of a 17th or 18th century mansion house and entrance to Arc de Triomphe. This is a real exclusivity from the Tourist Office!
SOCIAL PROGRAM

Group photo and cartoonist

Wednesday at 10:50, be ready for the group photo souvenir!

On Monday, be ready to be caricatured! A cartoonist will be present among us to capture with humor the best moments of this day.

After the congress, access all the drawings and photos on the website www.efita2017.org/photo with the password EFITAWCCA2017.
The gala dinner will take place in the “Domaine du Haut-Lirou” on Tuesday night. Since 1848, in this wine estate, generations have followed with the same amount of passion. Today, the 5th generation is head of the 95 hectares of wine producing vines. The gala dinner will begin with a visit of the wine room and aging cellar as well as our winemaking facilities. After this visit you will taste the range of traditional Domaine Haut-Lirou wines: Red, White and Rosé, and then our Mas des Costes and L’Esprit du Haut-Lirou wines. The evening will continue in the square with dinner. You will enjoy, with the song of the cicadas, dishes honoring the French gastronomy. A music group will accompany this dinner.

This gala diner concerns only participants already registered for this event. Rendez-vous at the bus meeting point of SupAgro at 19:15. Buses departure at 19:30. After the diner, two possible returns: 22h30 and 23h. After 30 minutes of journey, buses will drop you to the bus meeting point of SupAgro.