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Michele RAFFAELLI, University of Pisa, Italy

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Conference website:

www.rhea-conference.eu/2012



Welcome to the first RHEA Conference:

RHEA-2012 is being fostered by the project RHEA (Robot fleets for highly effective agriculture and forestry management, FP7-NMP 245986). The RHEA consortium comprises a number of research centres, universities, and companies funded by the European Commission through the Seventh Framework Programme to develop robotic fleets for weed control and pesticide management in agriculture and forestry.

Location:

Pisa is World famous for its Leaning Tower and Cathedral (inscribed on the UNESCO World Heritage List) and its many other medieval and Renaissance monuments. It is located in Tuscany, in the central part of the Italian peninsula, on a plain near the coast of the Mediterranean Sea close to the mouth of the river Arno.

The university buildings are located in the city itself, some in monumental historical buildings and others in new modern constructions.

Who are interested in?

Scientists and technicians, students, private firms and other people interested in sustainable crop-protection, weed control, automation in agricultural machinery, robotics application in agriculture and precision farming.



First International Conference on Robotics and associated High-technologies and Equipment for Agriculture *"Applications of automated systems and robotics for crop protection in sustainable precision agriculture"* RHEA-2012



Pisa, Italy
September 19 - 20 - 21 2012



Conference Topics:

Theme 1: Strategies and tools for precision agriculture

Topic 1.1: Automated machines for chemical weed control

Keywords: Reduced herbicides distribution, Innovative Sprayers

Topic 1.2: Automated machines for physical weed control

Keywords: Thermal tools, Mechanical tools, Innovative machines for PWC

Topic 1.3: Automated machines for tree crop protection

Keywords: Reduced pesticide distribution, innovative machine for pesticide application in tree crops

Topic 1.4: Agronomical, economical and safety impacts of automated machines use

Keywords: Automated machines safety, agronomical evaluation of automation in agriculture, economical evaluation of automation in agriculture

Theme 2: Automation and robotics for precision agriculture

Topic 2.1: Design and control of automated agricultural vehicles and systems

Keywords: Ground mobile machines, Flying mobile machines, Simulation tools

Topic 2.2: Computer vision and image analysis in agricultural processes

Keywords: Weed/crop discrimination, Crop row detection, Computer vision for guidance, Advanced procedures for image analysis of remotely sensed data in cropping systems

Topic 2.3: ICT technologies in precision agriculture

Keywords: Communication systems, Localization systems, Management and supervision, Mission planning

Conference website:

Guidelines, formats, templates and additional information are available on the RHEA conference website:

<http://rhea-conference.eu/2012>.

Abstracts:

First submission of 500 words abstract with revision by the members of the scientific committee. The template is available at the RHEA Conference website

Papers:

Second submission with revision of maximum six pages including figures, tables, schemes, etc. with new revision by the members of the scientific committee and/or after external peer reviewing. Final submission template will be available at the RHEA Conference website.

Deadlines Abstract and Papers:

- Deadline for abstract submission.....February 28, 2012
- Notification of acceptance.....March 31, 2012
- Full paper electronic submission.....April 30, 2012
- Notification of final acceptance.....May 31, 2012

Fees:

(including lunches, dinners, coffee breaks and Social events)

Payment before April 30, 2012

Participant: 450 euro

Student: 250 euro

Payment after April 30, 2012

Participant: 600 euro

Student: 300 euro

Payment by bank transfer to:

"Agricultural Engineering Conferences Organization Committee –MAMA DAGA – UP"

For UE Countries using Euro:

IBAN: IT85P0572814092492570864151

For UE Countries not using Euro and other not UE Countries:

IBAN: IT85P057281409249257086415

SWIFT code: BPVIIT21492

Accommodation:

Information about agreed hotels and accommodation in Pisa and along the coast can be found on the RHEA Conference website

www.rhea-conference.eu/2012

First day

9:00 – 9:00

9:15 – 10:00

10:00 – 10:30

10:30 – 12:00

12:00 – 14:00

14:00 – 15:30

15:30 – 16:00

17:00 – 19:30

20:00

Second Day

9:15 – 10:00

10:00 – 10:30

10:30 – 12:00

12:00 – 14:00

14:00 – 15:30

15:30 – 16:00

17:30 – 19:30

20:30

Third Day

9:00 – 10:15

10:15 – 10:45

10:45 – 11:45

11:45 – 12:15

12:15 – 14:00

14:30 – 19:30

Provisional programme:

Opening session

Plenary session "weed scientist/ agronomist"

Coffee break

3 parallel sessions

Lunch

3 parallel sessions

Coffee break

Visit to the CIRAA "E.Avanzi" of UP machine exhibition

"Rural dinner" at the CIRAA "E.Avanzi"

Plenary session "robotics scientist"

Coffee break

3 parallel sessions

Lunch

3 parallel sessions

Coffee break

Pisa sight-city tour visit to the Certosa Calci Natural Museum

Conference "gala" dinner

3 parallel sessions

Coffee break

3 parallel sessions

Closing session

Lunch

Excursion (to be booked and paid in advance)

