

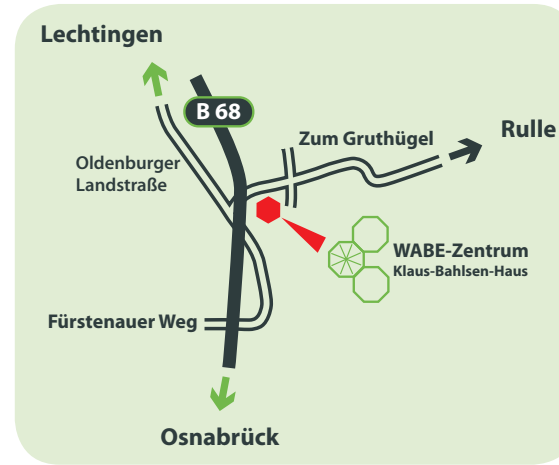
Fachhochschule Osnabrück  
University of Applied Sciences

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- Prof. S. Blackmore - University of Thessaly (GR)
- Prof. Dr.-Ing. S. Böttinger - University of Hohenheim (D)
- Prof. Dr. Ir. D. Goense - Wageningen UR (NL)
- Prof. Dr. H.-W. Griepentrog - The Royal Veterinary and Agricultural University (DK)
- Dr. J. Hemming - Wageningen University (NL)
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- Prof. Dr. Ir. L. Speelman - Wageningen University (NL)
- Prof. Dr. Ir. G. van Straten - Wageningen University (NL)

### Location:

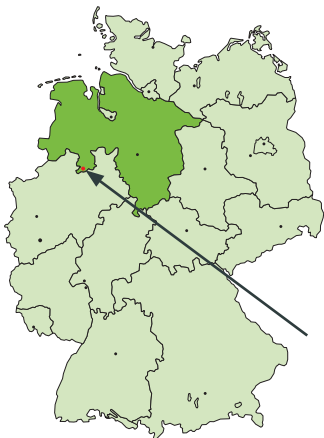
WABE-Zentrum  
Zum Gruthügel 8  
49134 Wallenhorst  
Germany



# Invitation 6th edition FieldRobotEvent

PrototypeContest.Workshops.Party

June 12-14, 2008  
Osnabrück, Germany  
[www.fieldrobotevent.de](http://www.fieldrobotevent.de)



## Germany Land of Ideas



Selected Landmark 2008

### Contact:

Voice: +49 541-969-2090 / +49 541-969-2978  
 E-mail: [fieldrobotevent@fhos.de](mailto:fieldrobotevent@fhos.de)  
 Fax: +49 541-969-2235  
 Site: [www.fieldrobotevent.de](http://www.fieldrobotevent.de)  
 The site is kept up to date, check it regularly for news and updates.



## Bring your own prototype



## Welcome

Agricultural engineering has become a high-tech field with highest worldwide relevance with respect to food, energy as well as landscape conservation. There is a strong need for innovations and new ideas to create solutions with ecological, economical and social relevance. The future applications of autonomous small size robots and robot swarms in agriculture will be a revolution in this field. However, whenever technology meets nature, considerable technical and non-technical challenges have to be solved.



The International Field Robot Event, founded by Wageningen University (The Netherlands) in 2003, has stimulated the development of autonomous field robots and has become a major platform for innovations, interdisciplinary cooperation and information exchange.

The University of Applied Sciences Osnabrück is inviting university and school (as well as professional) teams to bring their robot to the open-air field robot contest in 2008. Completely autonomous navigation in maize fields and application examples – such as weed control – are major tasks. Moreover, the freestyle and a challenge task with extreme field conditions demonstrate the agricultural relevance of the competition. There are no restrictions with respect to the robot design and construction.

Everyone who is interested in robots is welcome to Osnabrück, enjoy the Field Robot Event!



## Disciplines for the 2008 contest

The requirements might be changed slightly, visit our website [www.fieldrobotevent.de](http://www.fieldrobotevent.de) for the latest details.

### Navigation

Navigating in between curved rows of maize, including headland turning.

### Robust Navigation

Following a predefined pattern in a maize field with missing plants, the headland is limited to 1.5 m.

### Weed Control

Detection of artificial weed (simulated by golf balls), weed control action.

### Freestyle

Show your own ideas taking into account your robot's speciality! The relevance for agricultural practice will be taken into account by the evaluation of the committee.

### Challenge Task

Navigation under extreme conditions in a maize field: hilly or wet ground, curved rows, weed, missing plants; counting of maize plants.

Each discipline will have awards for the 3 best teams. Summing up the results for the navigation, robust navigation and weed control the winners of the Field Robot Event will be determined, thereby taking into account the costs of the robots.

### Procedure

For details visit our website [www.fieldrobotevent.de](http://www.fieldrobotevent.de). Please send an email to [fieldrobotevent@fhos.de](mailto:fieldrobotevent@fhos.de) if you are interested to participate. Form a team and construct your field robot. Prepare a poster and a paper for the Field Robot Event Workshop. Come to Osnabrück and meet friends!

### Accommodation

Low budget accommodation for students is available. Bring your sleeping bag and mattress.

### Field Robot Junior

Next to the classical field robot competition, schools can participate at the Field Robot Junior. Please contact us for further information.

## Program

### Program Thursday, June 12<sup>th</sup>

All day:	Arrival and registration Robot testing Exhibition of agricultural technology
14.00	Opening Field Robot Event
14.15	Field Robot Junior
16.30	Ceremonial Act: Field Robot Event / 365 Landmarks in the Land of Ideas
18.00	Party: Barbecue, Music, EURO 2008

### Program Friday, June 13<sup>th</sup>

All day:	Exhibition of agricultural technology
9.00	Robot testing
13.00	Field Robot Competition
17.30	Awards Show
18.00	Party: Barbecue, Music, EURO 2008

### Program Saturday, June 14<sup>th</sup>

10.00	Field Robot Workshop
15.00	Farewell

EURO 2008 Austria-Switzerland: European Football Championship  
All football matches of the European Football Championship can be seen.

