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<b>Belgium</b>	<i>Y. Baudoin</i>
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<b>United Kingdom</b>	<i>G. Pegman</i>
<b>USA</b>	<i>Michael M. Reischman</i>

## IARP Executive Committee

<b>President :</b>	<i>N. Caplan (USA)</i>
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<b>Executive Secretary :</b>	<i>G. Giralt (FR)</i>
<b>JCF 2007 Chair</b>	<i>W.R.Hamel (USA)</i>

## Time schedule

The contribution should focus on theories, principles and developments which have been explicitly developed for robots (terrestrial, aerial), and carried sensor systems for environmental surveillance, risky interventions, in the Humanitarian De-Mining in particular

An **abstract** of approximately 300 words (in English) should be received not later than **January. 15<sup>th</sup>, 2008**. Electronic submissions of the abstracts (Word, PSF, PDF-files) should be e-mailed to:

[maki@aucegypt.edu](mailto:maki@aucegypt.edu) and  
[Yvan.baudoin@rma.ac.be](mailto:Yvan.baudoin@rma.ac.be)

Final selection and invitation of participants:

**January, 31<sup>th</sup>, 2008**

Receipt full ready e-papers:

**February, 29, 2008**

## Organization Committee

### Workshop

**Chair:** Prof. Maki K. Habib, AUC, Cairo.

**Co-chair:** Prof. Yvan Baudoin, RMA, Brussels.

Workshop inquiries to:

**Workshop 'Risky Interventions and Humanitarian Demining HUDEM'2008'**

*Prof Maki K. Habib*

[maki@aucegypt.edu](mailto:maki@aucegypt.edu)

*Department of Mechanical Engineering  
School of Sciences and Engineering,  
American University in Cairo, Cairo,  
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EGYPT*



## IARP Workshop

Robotics and Mechanical assistance in Humanitarian De-mining and Similar risky interventions

**HUDEM'2008**

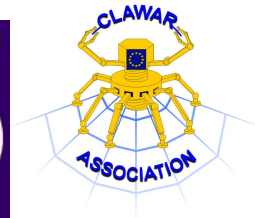
28-30 March, 2008

**American University in Cairo (AUC), Cairo EGYPT**

## Call for Abstracts



TC17



## Background

Robotics solutions properly sized with suitable modularized mechanized structure and well adapted to local conditions of dangerous unstructured areas can greatly improve the safety of personnel as well as the work efficiency, productivity and flexibility. Solving this problem presents challenges in robotic mechanics and mobility, sensors and sensor fusion, autonomous or semi autonomous navigation and machine intelligence.

The workshop will review and discuss the available technologies, their limitations, their adaptability to different environmental natural or artificial calamities (humanitarian demining obviously but also Earthquake, fire, chemical pollution, natural disaster, CBRN-E threat, etc) and discusses the development efforts to automate tasks related to demining / detection / interventions processes wherever possible through the use of Robotics Systems and other technologies.

## Scope and Topics

Specific topics include but are not limited to:

- w Tele-operations
- w Mobile Robotics Systems (Design, control, command) for unstructured environments (UGV,UAV, multi-robotics cooperation)
- w Modular Tool-Kit Solutions
- w Sensors and sensor fusion for detection as well as for robot localization
- w Demonstrators – Tests Results
- w Human Machine Interface
- w Social aspects and education
- w Crisis management tools

## IARP IPC

This Workshop is sponsored by Belgium and co-sponsored by Austria, France, Germany, Italy, Japan, Korea, Poland, Russia, and Spain

## IARP WG HUDEM IPC

M.Armada	R.Molfino
R.Babajko	C.Morconi
K.Berns	K.Munsang
P.Bidaud	K.Nonami
D.G.Caldwell	A.Pajaziti
E.Cepolina	C.Parra
R.Chesnay	M.D.Penny
E.Colon	I.Petrovic
F.G.Cordova	A.Preumont
J.L.Coronado	A.Rao
J.Dai	A.Safiotti
A.T.de Almeida	J.C.Samin
K.Debruyne	U.Schmucker
R.Dillmann	L.Seneviratne
P.Drews	L.Steinicke
A.Durante	O.Tokhi
G.Genta	S.Tzafestas
P.Gonzales de Santos	L.Vatja
M.K.Habib	H.Van Brussel
J.Hewit	J.C.van den Heuvel
W.Khalil	D.van Zwynsvoorde
K.R.Kozlowski	F.Verhaege
D.Lefeber	N.Vincent
Man Wook Han	G.S.Virk
M. Chaaban	

## Venue

The workshop will take place in Cairo, at the American University in Cairo, in the heart of the well-known Capital of the Human-Civilization. The sessions will be held at the university, offering up-to-date technology for conferences and meetings. Demonstrations and cultural visits will be offered to the attendees: the participants may also offer demonstrations/posters/exhibition-materiel