IARP WORKSHOP HUDEM 2008

Preliminary list of presentations, 21.01.2008

11	Cognitive Theory – Based Approach for Inspection using Multi Mobile Robot Control.	Janusz Bedkowski, Andrzej Maslowski Research Institute for Automation and Measurements PIAP, Warsaw, Poland	amaslowski@piap.pl, jbedkowski@piap.pl
12	Framework for Creation of the Simulators for Inspection Robotic Systems	Janusz Bedkowski, Grzegorz Kowalski, Andrzej Masłowski Research Institute for Automation and Measurements PIAP, Warsaw, Poland	amaslowski@piap.pl, jbedkowski@piap.pl, gkowalski@piap.pl,
13	Legged robot - Animal cooperation to trace smell gradients in minefields	Thrishantha Nanayakkara[1], R. H. Lakshita Ranasingha[2], and D. Madura Rajapaksha[2] [1] School of Engineering and Applied Science [2]Harvard University, USA Department of Mechanical Engineering University of Moratuwa, Sri Lanka	thrish@deas.harhard.edu
14	Remote Operation of the Mini MineWolf in High-Threat Mine Environments	Christoph Frehsee Director Products and Services MineWolf Systems AG Seedammstrasse 3 8808 Pfäffikon SZ Switzerland	
15	Nuclear Quadrupole Resonance for explosive detection	Hideo Itozaki and Go Ota Osaka University Graduate School of Science Engineering 1-3 Machikaneyama Toyonaka, Osaka 560-8531,Japan	Itozaki@ee.es.osaka-u.ac.jp
16	Exploitation of nonlinear dynamics in ferromagnetic and ferroelectric materials for novel high performances B-field and E-field sensors	B. Andò, S. Baglio, N. Savalli, C. Trigona Facoltà di Ingegneria, Univ. degli Studi di Catania, DIEES Viale A. Doria 6, 95125	

		Catania, Italy.	
		V. In, A. R. Bulsara Space and Naval Warfare Systems Center 49590 Lassing Road A341, San Diego, CA 92152-5001, USA	
17	Heterogeneous robot cooperation for interventions in risky environments	C. Bruno, D. Longo, D. Melita, G. Muscato, S. Sessa, G. Spampinato DIEES Università degli Studi di Catania Viale A. Doria 6 Catania, Italy	gmuscato@diees.unict.it
18	HIL tuning of UAV for exploration of risky environments	G. Astuti, D. Longo, D. Melita, G. Muscato, A. Orlando DIEES Università degli Studi di Catania Viale A. Doria 6 Catania, Italy	gmuscato@diees.unict.it
19	De-mining techniques of improvised explosive materials by the usag of mobile robots.	Arbnor Pajaziti, Jakup Berisha, Xhevahir Bajrami Faculty of Mechanical Engineering, University of Prishtina Kosova Arbnesh Ajvazi Improvised Explosive Device Disposal Unit, Kosovo Police Service Kosova	apajazit@uni-pr.edu ; jakup.berisha@gmail.com ; xhevahirbajrami070@hotmail.com arbnesh.ajvazi@kosovopolice.com
20	Fuzzy Template Based Automatic Landmine Detection from GPR Data	Zakarya Zyada[1], Takayuki Matsuno[2] and Toshio Fukuda[3] [1] Mechanical Eng. Dept., Tanta Univ., Tanta, Egypt; [2] Dept. of Intelligent Systems Design Eng., Toyama Prefectural Univ., Toyama, Japan; [3] Micro-Nano System Eng. Dept., Nagoya Univ., Nagoya, Japan	zzyada@yahoo.com
21	A MultiAgent System for HumanRobotAgent Teamwork in Life Threatening Tasks	Pedro Santana[1], Vasco Santos[2], Mário Salgueiro[2], José Barata[3] and Luís Correia[1] LabMAg, Computer Science Department, University of Lisbon, Portugal	

		2R&D Division, IntRoSys, S.A. Integrators for Robotic Systems 3Electrical Engineering Department, New University of Lisbon, Portugal	
22	Humanitarian Demining Robot Gryphon - an Objective Evaluation	Marc Freese, Edwardo F. Fukushima and Shigeo Hirose Tokyo Institute of Technology	marc@sms.titech.ac.jp
23	Agricultural derived tools for ground processing in humanitarian de-mining operations – set up of testing facility in Jordan	Emanuela Elisa Cepolina (1) & Bassam Snobar (2), (1) PMARlab, Department of Mechanics and Machine Design (DIMEC), University of Genova, Italy (2) Professor at the Department of Horticulture and Crop Science, Faculty of Agriculture, University of Jordan, Amman, Jordan.	emacepo@dimec.unige.it , Snobar@ju.edu.jo
24	AMARANTA: Modular Platform for a Mine Hunting Robot	Snaider Carrillo(1), Carlos Santacruz(1), Diego Botero(1), Carlos Parra(1) , Alvaro Hilarión(1), Martha Manrique(1), Camilo Otalora(1) and Michel Devy(2) (1)Pontificia Universidad Javeriana, Carrera 7ª No. 40 – 62. Bogotá, Colombia (2) Laboratoire d'Analyse et d'Architecture des Systèmes (LAAS-CNRS). 7, Avenue du Colonel Roche, 31077 Toulouse Cedex 4, France	
25	Data Association for Robot Localization in Satellite Images	Sid Ahmed Berrabah, Yvan Baudoin Mechanical Department, Royal Military School, Avenue de la Renaissance 30, 1000 Brussels, Belgium	sidahmed.berrabah@rma.ac.be
26	A Fuzzy Approach for the Control of Autonomous Vehicles	Dr Ayman Abbas British University in Egypt	Aabbas@bue.edu.eg

	Operating in Hazardous Terrain Environments		
27	A COMPLEMENTARY MULTISENSORY METHOD FOR LANDMINE DETECTION	Snaider Carrillo(1), Carlos Santacruz(1), Diego Botero(1), Alejandro Forero(1), Carlos Parra(1) and Michel Devy(2) (1)Pontificia Universidad Javeriana, Carrera 7ª No. 40 – 62. Bogotá, Colombia (2) Laboratoire d'Analyse et d'Architecture des Systèmes (LAAS-CNRS). 7, Avenue du Colonel Roche, 31077 Toulouse Cedex 4, France	
28	Mechanical Design of a New Locomotion Concept for Humanitarian Demining	.Univ.Prof. Dr. Dr.h.c.mult. Peter Kopacek Lukas Silberbauer Institute of Handling Devices and Robotics Vienna University of Technology Favoritenstraße 9-11 1040 Vienna, Austria	kopacek@ihrt.tuwien.ac.at lukas.silberbauer@austrobotics.at
29	Robotised Combine to demining of mine fields	Marin Midilev 40-A-10, Badema str 6300 Haskovo Bulgaria	midilev@abv.bg
30	Mobile Robotic Systems Facing the Humanitarian Demining Problem State of the Art (SOTA) December 2007 ITEP 3.1.4 Task	Yvan Baudoin, et Al Royal Military Academy (RMA) 30 Av de la Renaissance B 1000 Brussels, Belgium	Yvan.baudoin@rma.ac.be
31	Segmentation of Infrared Images to Detect Landmines: An Integrated Approach	Mohamed Salama, Aseel Ajlouni and Alaa Sheta Information Technology Department Al-Balqa Applied University Al-Salt, Jordan	asheta2@yahoo.com
32	Design of a Landmine Detection System Using NXT Robot and Mobile Phone Camera for Unstructured Environment	Mohamed Salama, Aseel Ajlouni and Alaa Sheta Information Technology Department Al-Balqa Applied University Al-Salt, Jordan	asheta2@yahoo.com

33	Demining in Shallow Inland Water Areas	Viktor Kálmán PhD student, Miklós Vogel researcher, dr. László Vajta associate professor Budapest University of Technology and Economics Department of Control Engineering and Information Technology	*kalman, vogel, vajta}@iit.bme.hu*