

RTEX

ROBOTIC
TECHNOLOGY
EXHIBITION

29
SEPT

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SEPT

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OCT

2015

AT THE MEYDAN, DUBAI - UAE



PARTNERS & SUPPORTERS



Honorary Patron
H.E. Eng. Essa Al Madoor

جمارك دبي
DUBAI CUSTOMS

وزارة التربية والتعليم
Ministry of Education

LOCKHEED MARTIN

جمعية المهندسين - الإمارات العربية المتحدة
SOCIETY of ENGINEERS - UAE

Smart Service Robot Global Leading Company
FUTURE ROBOT

Khaleej Times
Keeping track of change

fun robotics
A Mind Fitness Club

ST Intelligent
SMART CITY CONCEPT

UNIVERSITY OF
WOLLONGONG
IN DUBAI

Day 1 - 29. Sept

Time	Company / Institute	Lecturer Name	Seminar Topic	Details
12:30 - 13:00	ZHAW Institute of Mechatronic Systems	Hans-Rudolf Helfer	Paving the way from basic research to real industrial solutions	As the leading institution for applied research and development in mechatronics in Switzerland, the Institute of Mechatronic Systems (IMS) focuses on innovative projects at the intersection of mechanics, electronics and information technology. Our strengths lie in the following research & development areas: <ul style="list-style-type: none"> • Robotics & Automation • Control Engineering & Advanced Control • Drive Engineering & Power Electronics • Biomedical Engineering • System Engineering • Vision & Navigation
13:15 - 13:45	UNINOVA	JOSE BARATA	The ROBO-PARTNER Project	This presentation will address some of the most important achievements already reached by the FP7 project Robo-Partner. Human skills are the main driver that enables producing high added value products in Europe. Thus the manufacturing processes are based on utilizing these skills. ROBO-PARTNER aspires the integration of the latest industrial automation systems for assembly operations in combination with human capabilities, combining robot strength, velocity, predictability, repeatability and precision with human intelligence and skills. Thus, a hybrid solution involving the safe cooperation of operators with autonomous and adapting robotic systems through a user-friendly interaction, and the development of a autonomous robot to bring raw materials from the warehouse to the working place. All these aspects will be covered in this presentation.
14:00 - 14:30	INFINIUM ROBOTICS	YOHAN KIM	Autonomous Drones: What can we do with them?	Autonomous (No human operators) drones are going to change our lives in many ways in the near future. Amazon, Google, Facebook have started to use drones to improve their business operations. Can you too? Hear from Mr. Kim Yohan, President of Infinium Robotics Korea, explain about the variety of drone uses that can be enabled by the company's proprietary drone technologies.

Day 2 - 30. Sept

Time	Company / Institute	Lecturer Name	Seminar Topic	Details
10:45 - 11:15	Intelligent Behavior Control Unit / Brain Science Institute (BSI) / BSI-TOYOTA Collaboration Center (BTCC) RIKEN	FADY S. ALNAJJAR	Rehabilitation robotics Dr. Robot: The Future of Human Health and Rehabilitation	Robots have recently expanded much beyond industrial application, and are now dynamically entering health care, too. After introducing robot-assisted surgery as well as robots and people with special needs, we will center our discussion on a very promising application: According to the World Health Organization, 15 million people suffer stroke each year, leaving 5 million disabled (world health report 2002). Robot-assisted therapies have been recently used as a tool for rehabilitation beside the common clinical therapies. Studies, however, show that the current rehabilitation techniques do not translate always into recovery. Our research focuses in merging of control engineering and neuroscience toward an effective muscle-synergy-based robotic therapy. Our progress so far is satisfactory and promising a new generation of efficient rehabilitation
11:30 - 12:00	INTROSYS SA	Luis Miguel Flores	Industry 4.0 – Challenges and Opportunities of Novel Automation	The advent of Industry 4.0 introduces a new set of problems for engineers to solve. New architectures introduce the requirements of new skills. Moving away from electrical biased approaches and focusing in process modelling is a reality for which conventional automation engineering must adapt. Connected enterprises used to be a commodity that only large manufacturers could afford. IoT brings new connectivity solutions that can be afforded by small enterprises. The field of simulation became a reality and can be used to generate/test Industrial Control Systems. This seminar will highlight how Control Systems Designers can ready themselves for the new age of automation.
12:15 - 12:45	HOLOS	Pedro Sousa	Enterprise-Wide Risk Management for Robotic and Automation projects	Automation and robotic systems are often utilized to deal with challenging and risky situations. Robots can assist in environments where humans could not survive in or critical conditions, such as natural or human provoked disasters. However, the employment of such systems does not guaranty the success of these types of projects. A significant question emerges: What is the risk in the scope of Robotic and Automation projects? The risk analysis process should accompany all phases of each project, from the idea, to the proposal, to the design and to the implementation. In this short presentation Holos will talk about its experience in the area of risk management for Robotics and Automation projects and introduce H2RM as a powerful tool to deal with this kinds of projects.
13:00 - 13:30	Exechon	Kalle Neumann	Taking Parallel Kinematics Machine technology to the next level - Revolutionizing the World of Automated Manufacturing	The utilization of new materials and tightening of desired tolerances has driven the advancement of Practical and Portable Automated Machining. Increased demand in volume within the aerospace industry not only requires minimizing the amount of manual operations, but also applying automation inside existing manual fixtures. In the past, manual labor, with drastic limitations on achievable accuracies, has been utilized in areas that machine tools cannot either access or the limited amount of work does not justify the expense of additional machines. Assemblies requiring critical hole alignment or drilling through stack materials often are difficult to achieve using manual operations. The solution is The Exechon a practical and very portable machining unit that is small enough to fit into otherwise difficult areas and is lightweight enough to be either moved into position by small machines or quickly disassembled/assembled with each subassembly capable of being positioned manually.
13:45 - 14:15	Electrolux Italia SpA	Claudio Cenedese	Micro-energy Harvesting / Presentation EU of Research Project «Sinergy»	Energy harvesting, even known as power harvesting or energy scavenging, is a process where energy is captured from a system's environment and converted into usable electric power. Energy harvesting allows electronics to operate where there's no conventional power source, eliminating the need to run wires or make frequent visits to replace batteries. The seminar introduces the activities developed within the running FP7 EU Research Project Sinergy.
14:30 - 15:00	STE industries	Paolo Moiraghi	Role of Energy Efficient Autonomous Wireless Sensors in the Internet of Everything. Case studies: automotive and white goods	Internet of Everything and Smart city -> Internet of Everything (IoE) is the networked connection of people, data, process and things and it is made up of technology transitions that are the networked connection of physical objects. -> Connections where information flows from one entity to others for specific purposes, where entities include people, devices, applications, and networks. Can be people-to-people (P2P), machine-to-people (M2P), machine-to-machine (M2M), Vehicle to Vehicle (V2V) or Vehicle to Infrastructure (V2I) communication. In the seminar we will explore approaches and methods to data mining through use of the innovative and patented "micro.sp" technology as the new frontier to the Energy Efficient (Autonomous) Wireless Sensor for the IOE world. 2 cases will be presented: a) EEWS applied to Tire Pressure Monitoring System and data collection in the automotive domain. b) EEWS applied to White Goods.



CREATIVE ROBOTICS KIDS ENTERTAINMENT

Stand#: M-06

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Description:

CR8 specializes in helping out students & adults alike in building their own robots.

SERVICES PROVIDED:

- Walk - in
- Mini Missions
- Monthly Session
- Team Building Workshop

D M WORLD ME FZE

Stand#: M-10

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Description:

DM World ME FZE is established in Dubai, Primarily an ICT solution company. We are added ROBOTICS solutions in our portfolio. That includes Automated logistics and material handling ,Industrial Robots, Remotely controlled systems, Consumer Robotics Products and Robotics Training and Educational Solutions like Robotics KIT and ROBOTICS LAB setup. www.dmworldme.com



Dubai Customs

Stand#: M-31

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Description:

4D Inspection Device: A state-of-the-art mechatronic device that facilitates inspection in a professional and accurate manner, ensures safety of inspectors and saves data on-the-spot to be easily retrieved when needed.

Remotely Controlled Container Scanner: Remotely run Advanced Container Scanning System using a secure Virtual Private Network (VPN), and establishing a central operation room for analysing x-ray images.

Smart Inspection Table & Scanner: The first-of-its-kind smart inspection table in the world can: 1. Recognize the inspector on duty. 2. Identify the passenger and display their information details. 3. Indicate how risky a bag is and if it is safe to manually inspect, by measuring the radiation level of the bag. And much more...

Mini Inspection Sub: Provides a convenient and efficient means for Inspection Officers to carry out their inspection duties without the need for divers. This Mini-Sub can reach depths of up to 100 meters below the water level and is equipped with powerful flashlight, and a mechanical arm. It can inspect and also photograph.



Electrolux Global Technology Center (GTC) c/o Electrolux Italia SpA

Stand#: M-22

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Description:

Electrolux is a leading global, appliance manufacturer, commanding strong positions in all regions, and is the only player that offers complete solutions for both consumers and professional users. In 2013, Electrolux had sales of SEK 109 billion and about 61,000 employees.



Electrolux

SSI SCHÄFER

Stand#: M-15

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Description:

SSI SCHÄFER has been one of the world's leading suppliers of a comprehensive range of high-quality storage systems for warehouses, manufacturing plants and commercial offices. International presence, outstanding customer service, decades of experience, first-class teamwork, provide major benefits for its extensive client base.



ST Intelligent

Stand#: M-05

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Description:

ST intelligent is committed to provide the most innovative technology to mena market to help the region find its way to create smart cities.

STE

Stand#: M-22

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Description:

STE, founded in '65, is an Italian private company provided of a remarkable vision in the domain of Energy Efficient Wireless Sensors (EEWS). STE is author of advanced concepts for the emerging market of the Internet of Things (IOT), vehicles telematics and remote metering. Committed to the highest standards, STE is mainly focused on the engineering, industrialization and business developments of innovative telemetry solutions, with regards to the low power wireless sensor market and telematics applications. STE is author of breakthrough innovations and inventor of the worldwide-recognized innovative technology known as micro.sp



TAL MANUFACTURING SOLUTION LTD.

Stand#: M-16

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PDO Building, TATA Motors Campus, Chinchwad, Pune - 411033

Description:

Range of Goods: TAL 10Kg Payload robot with its controller & teach pendant & accessories

Address of local agent: Equipage Global General Trading LLC. P.O box 237560, office 313, Al qusais plaza, Dubai, UAE. For more than 40 years, TAL have designed and build machine tools, material handling systems, test rigs, painting systems, assembly & process lines, robotic welding solutions, fixtures & tooling, fluid power solutions for a wide range of industrial applications and integrated them to deliver complete manufacturing solutions.



UNINOVA

Stand#: M-22

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Description:

The main theme of Uninova is to pursue scientific research, technical development and high-level training in international R&D context.

