The 7th International Conference on Integrated Digital Embedded Automation (IDEA'2017)

Los Angeles Convention Center
Los Angeles, CA, U.S.A.
11-14, August 2017

Conference and Topics

The 2nd International Conference on Integrated Diagnosis for Embedded Automation (IDEA2011) will be held during Aug 7-11 , 2017 at the International Convention Center, Los Angeles, (USA), and it is sponsored by UCR, the University of California of Riverside, California, USA, the International Federation for the Promotion of Mechanism and Machine Science, and other non-profit organizations, as is well known to us all, digital manufacturing and automation technology plays a more and more important role in industry advancing now.

The conference is aimed at reporting up-to-the-minute innovations and developments, summarizing the state-of-the-art, and providing an international forum to exchange ideas for the domestic and foreign scholars and experts from many areas such as Mechatronics, Digital Manufacturing, Deep-sea Mining control Technology and Equipments automation, intelligent control and Detection Technology, Agricultural Equipments and its Automation.

The proceedings of the conference will be published by IFAC-CPS, and meanwhile will be arranged Ei index and ISTP index, and there are some Ei and SCI Journals for excellent papers (about 50 papers).

A. Mechatronics

- Mechatronics modeling, optimization and simulation techniques and methodologies
- Intelligent mechatronics, robotics, biomimetics, automation and control systems
- Teleoperation, telerobotics, haptics, and teleoperated semi-autonomous systems
- AI, intelligent control, neuro-control, fuzzy control and their applications

B. Digital Manufacturing

- Industrial automation, process control, manufacturing process and automation
- Advanced Manufacturing Technology, Sustainable Production
- High-speed Automation and Intelligent Control, Intelligent Manufacturing, Knowledge-based Engineering

C. Intelligent Robot Technology

- Architecture of intelligent robots
- Perception, navigation and control of intelligent robots
- Robot vision
- Simultaneous localization and mapping of mobile robots

- Uncertain environment modeling

D. Deepsea Mining Control Technology and Equipments Automation
- Deep-sea robot
- Optimal Location and Communication of Deep-Sea
- Ocean Data Acquisition, Visualization, Modeling and Information Management
- Ocean Vehicles and Floating Structures
- Deep-sea Mining Machine
- Others

E. Intelligent Control and Detection Technology
- Autonomous Control and Fuzzy Logic
- Complex System modeling and intelligent controller design
- Genetic algorithms, Machine learning / adaptive systems
- Intelligent control application
- Failure detection and identification
- Adaptive Signal Processing, Blind Signal Processing

Important Dates:

January 10, 2017: Submission of full papers.

February 29, 2017: Notification of papers acceptance

March 29 – April 15, 2017: Submission of final papers

August 7 – 11, 2017: Conference and workshops

Paper submission online and conference web page:

https://www.easychair.org/account/signin.cgi?conf=idea2017

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