

**VIDEO SESSION**

Chair: Rajiv Dubey

Co-Chair: Thenkurussi Kesavadas, USA

**PLENARY LECTURE 1**

Host: Shigeki Sugano, Japan

**SESSION M1A — Manipulator Design**

Chair: Dragoljub Surdilovic, Germany

Co-Chair: Giuseppe Fusco, Italy

**SESSION M1B — Teleoperation**

Chair: Kazuhiro Kosuge, Japan

Co-Chair: Alberto Rovetta, Italy

**SESSION M1C — Motion and Imaging**

Chair: Takanori Shibata, Japan

Co-Chair: Antonello Cutolo, Italy

**SESSION M1D — Transportation Systems**

Chair: Manfred Hiller, Germany

Co-Chair: Angela Di Febraro, Italy

**SESSION M2A — Parallel Manipulators**

Chair: Jorge Angeles, Canada

Co-Chair: Rezia Molfino, Italy

**SESSION M2B — Intelligent Systems I**

Chair: Clarence de Silva, Canada

Co-Chair: Michele Aicardi, Italy

**SESSION M2C — Fixture and Grasping Design**

Chair: Edward De Meter, USA

Co-Chair: Maria Chiara Carrozza, Italy

**SESSION M2D — Railway Vehicle Technology**

Chair: Antonio Piccolo, Italy

Co-Chair: Torsten Bertram, Germany

**SESSION M3A — Biomechatronics**

Chair: Deirdre Meldrum, USA

Co-Chair: Benedetto Allotta, Italy

**SESSION M3B — Intelligent Systems II**

Chair: George Wang, Canada

Chair: Jonathan Wu, Canada

**SESSION M3C — Fixture and Part Location Systems**

Chair: Kok-Meng Lee, USA

Co-Chair: Herman Soemers, The Netherlands

**SESSION M3D — Automotive Systems I**

Chair: Luigi Glielmo, Italy

Co-Chair: Maria Pia Fanti, Italy

**SESSION M4A — Advances in Robotics Within RAMSETE Project**

Chair: Giovanni Ulivi, Italy

Co-Chair: Paolo Valigi, Italy

**SESSION M4B — Intelligent Process Automation**

Chair: Masayoshi Tomizuka, USA

Co-Chair: Gianni Ferretti, Italy

**SESSION M4C — Sensing**

Chair: Hideki Hashimoto, Japan

Co-Chair: Johné Parker, USA

**SESSION M4D — Automotive Systems II**

Chair: Roger Goodall, UK

Co-Chair: Hiroshi Kobayashi, Japan

**PLENARY LECTURE 2**

Host: Jadran Lenarčič, Slovenia

**SESSION T1A — Robot Analysis and Planning**

Chair: Costantinos Mavroidis, USA  
Co-Chair: Massimo Callegari, Italy

**SESSION T1B — Neural and Fuzzy Control**

Chair: Ranjan Mukherjee, USA  
Co-Chair: Atsushi Konno, Japan

**SESSION T1C — Actuators**

Chair: Giorgio Figliolini, Italy  
Co-Chair: Ciro Natale, Italy

**SESSION T1D — Manufacturing Systems I**

Chair: Devendra Garg, USA  
Co-Chair: Shreyes Melkote, USA

**SESSION T2A — Robot Dynamics and Control**

Chair: Gerd Hirzinger, Germany  
Co-Chair: Vincenzo Parenti Castelli, Italy

**SESSION T2B — Vibration Control I**

Chair: Giuseppe De Maria, Italy  
Co-Chair: Lilong Cai, PRC

**SESSION T2C — Hydraulic Actuators**

Chair: Bin Yao, USA  
Co-Chair: Roberto Oboe, Italy

**SESSION T2D — Manufacturing Systems II**

Chair: Yusef Ibrahim, Australia  
Co-Chair: Carlo Cloet, USA

**SESSION T3A — Manipulation and Control**

Chair: Sauro Longhi, Italy  
Co-Chair: Koichi Koganezawa, Japan

**SESSION T3B — Vibration Control II**

Chair: Paolo Rocco, Italy  
Co-Chair: Marco Antonio Arteaga, Mexico

**SESSION T3C — Actuator Design**

Chair: Kenneth Waldron, USA  
Co-Chair: Gianantonio Magnani, Italy

**SESSION T3D — Software Design for Manufacturing**

Chair: George Chiu, USA  
Co-Chair: Fakhreddine Karray, Canada

**SESSION T4A — Robot Force Control**

Chair: Torgny Brogårdh, Sweden  
Co-Chair: I-Ming Chen, Singapore

**SESSION T4B — Control of Mechatronics Systems**

Chair: Jakob Apkarian, USA  
Co-Chair: Ning Xi, USA

**SESSION T4C — Robot Actuation**

Chair: Hami Kazerooni, USA  
Co-Chair: Giovanni Legnani, Italy

**SESSION T4D — Mechatronics System Design**

Chair: Thomas R. Kurfess, USA  
Co-Chair: Yoshio Yamamoto, Japan

**PLENARY LECTURE 3**

Host: William Hamel, USA

**SESSION W1A — Flexible Manipulators**

Chair: Jurek Sasiadek, Canada  
Co-Chair: Luigi Villani, Italy

**SESSION W1B — Walking Machines**

Chair: Michael McCarthy, USA  
Co-Chair: Raffaele Di Gregorio, Italy

**SESSION W1C — Mechatronics Curricula**

Chair: Wayne Book, USA  
Co-Chair: Paolo Dario, Italy

**SESSION W1D — Discrete Event Systems in Automated Transportation**

Chair: Bart De Schutter, Belgium  
Co-Chair: Luca Ferrarini, Italy

**SESSION W2A — Service Robots**

Chair: Alessandro De Luca, Italy  
Co-Chair: Peter Putz, The Netherlands

**SESSION W2B — Human Machine Interfaces I**

Chair: Akitoshi Itoh, Japan  
Co-Chair: Darwin Caldwell, UK

**SESSION W2C — Technology Enhanced Teaching**

Chair: John Gardner, USA  
Co-Chair: Cesare Fantuzzi, Italy

**SESSION W2D — Data Storage Systems**

Chair: Maurizio Zuffada, Italy  
Co-Chair: Winncy Du, USA

**PLENARY LECTURE 4**

Host: Shigeru Okuma, Japan

**SESSION W3A — Robotic Manipulation in Space**

Chair: Steven Dubowsky, USA  
Co-Chair: Veronique Perdereau, France

**SESSION W3B — Human Machine Interfaces II**

Chair: Tzyh-Jong Tarn, USA  
Co-Chair: Dong-Soo Kwon, Korea

**SESSION W3C — Mechatronics Applications**

Chair: Roland Siegwart, Switzerland  
Co-Chair: Jean-Claude Gentina, France

**SESSION W3D — Fault Detection**

Chair: Rolf Johansson, Sweden  
Co-Chair: Francesco Basile, Italy

**SESSION W4A — Vehicles and Space Exploration**

Chair: Claudio Melchiorri, Italy  
Co-Chair: Evangelos Papadopoulos, Greece

**SESSION W4B — Mobile Robots**

Chair: Tim Salcudean, Canada  
Co-Chair: Giovanni Muscato, Italy

**SESSION W4C — Micro Technology**

Chair: Bahram Ravani, USA  
Co-Chair: Gabriele Vassura, Italy

**SESSION W4D — Planning and Navigation**

Chair: Ian Walker, USA  
Co-Chair: Norberto Pires, Portugal