



mechatronik

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# Mechatronics & Robotics 2004

IEEE Industrial Electronics Society  
APS - European Centre for Mechatronics  
Aachen, Germany  
September 13-15, 2004



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APS – European Centre for Mechatronics

**MECHATRONICS & ROBOTICS 2004** is an international conference on industrial applications of electronics, control, mechatronics, robotics, vision and sensors, signal processing, instrumentation, automation, artificial intelligence, computer networks and emerging technologies. The objectives of the conference are to provide high quality research and professional interactions for the advancement of science, technology, and fellowship. Papers with new research results are encouraged for submission. Topics include but are not limited to:

**COMPUTER AND CONTROL SYSTEMS:** Advanced adaptive control, micro controller-based systems, robust control, real-time control, data processing, estimation and identification techniques, fault-tolerant systems, networked control systems, controller design, control engineering, agent-based control, non-linear control systems, neural networks, fuzzy logic, evolutionary computing, wearable computers, and applications. **Track chair: Seta Bogosyan (USA).**

**INDUSTRIAL INFORMATICS:** Computer vision, embedded systems, factory communication, networks, assistance systems, telematics, diagnostics & prevention, CAD/CAM/CAT/CIM, teleservice, man-machine communication, software engineering, interfaces, simulation, VR+AR, industrial applications of internet technologies, multimedia, and communication techniques. **Track chairs: Jean-Pierre Thomesse (France), Armando Walter Colombo (Germany).**

**SENSORS AND ACTUATORS:** Intelligent sensors and actuators, multi-sensor fusion, micro/nanotechnology, microsensors and microactuators, instrumentation electronics, MEMS and system integration. **Track chairs: Kouhei Ohnishi (Japan), Carlos Couto (Portugal).**

**MECHATRONICS:** Analysis, modeling and simulation, system design, motion control, cooperative systems, kinematics and dynamics, micro and nano devices, intelligent systems, mechatronic engineering, education in mechatronics, and application of mechatronic systems. **Track chairs: Manfred Hiller, Günther Starke (Germany).**

**ROBOTICS:** Industrial robots, biomedical robotics, biorobotics, humanoid robotics, autonomous mobile robots, multi-robot teams, multi-modal interaction, tele-robotics (hazardous environments, tele-medicine, tele-education), cognitive systems, service robots, human-robot cooperation, robot vision, and application of robot systems. **Track chairs: Klaus Schilling (Germany), Jose Sa da Costa (Portugal).**

Author's Schedule: Deadline for Submission of Full Papers ~~May 1, 04~~ June 30, 04  
Notification of Acceptance ~~July 1, 04~~ July 15, 04  
Deadline for Submission of Final Manuscripts ~~August 1, 04~~ Aug 1, 04

