

IEEE ICMA2006 Advance Technical Program

Huayang Hotel, Luoyang, China

Monday, June 26, 2006

8:30 - 9:20		Opening Ceremony									
9:20 - 10:10		Plenary Talk 1: Intelligent Power Assist Systems Mechatronic Systems Auto-Adaptive to Varying Human Characteristics and Environmental Conditions Prof. Masayoshi Tomizuka (UC Berkeley, U.S.A)									
Morning Break											
10:20 - 11:10		Plenary Talk 2: A Hybrid Intelligent Optimal Control Method for the Whole Production Line and Applications Prof. Tiantou Chai (Northeastern University, China)									
11:10 - 12:00		Plenary Talk 3: Human-robot Interaction and Coordination - Robot Helpers, Robotic Assistive Systems, and Dance Partner Robots - Prof. Kazuhiro Kosuge (Tohoku University, Japan)									
Lunch Break											
13:30 to 15:30	Session MP1-1: Interaction and Intelligence (Invited)	Session MP1-2: Nonlinear Control and Robotics Network (Invited)	Session MP1-3: Inspection of Manufacturing Systems	Session MP1-4: MEMS and Nano Systems I	Session MP1-5: Analysis of Parallel Manipulators	Session MP1-6: Camera Model and Calibration	Session MP1-7: Sensing Systems	Session MP1-8: Actuators	Session MP1-9: Reconfigurable Robots	Session MP1-10: Teleoperation	Session MP1-11: Networked Control Systems I
	624221	600211	620451	601001	614371	600042	616511	619061	623181	600081	611961
	623341	624921	613891	624641	623151	623521	618831	621971	621331	619511	619922
	600961	624881	622245	619551	614202	617081	614491	612731	614661	617391	617881
	623291	616881	618471	621201	616621	624091	616561	624471	620911	624611	619871
	623321	616871	619091	615251	620261	623471	617151	624061	619641	622711	623092
600031	614841	624501	614141	614201	617741	618241	623361	623241	613624	615631	
Afternoon Break											
15:50 to 17:50	Session MP2-1: Network and Intelligent Robotic Systems (Invited)	Session MP2-2: Legged Robots	Session MP2-3: Distributed Manufacturing and Virtual	Session MP2-4: MEMS and Nano Systems II	Session MP2-5: Localization and Navigation I	Session MP2-6: Image Segmentation	Session MP2-7: Optical Sensors and Devices	Session MP2-8: Control of Mechatronic Systems I	Session MP2-9: Biomimetic Robots	Session MP2-10: Control Theory I	Session MP2-11: Networked Control Systems II
	622412	621701	612891	614761	624151	615343	622561	623251	613621	600043	623091
	600681	620811	600941	617191	620611	619071	617961	615951	617571	600201	615632
	614611	620901	616821	612051	622831	625071	621901	617061	623013	600202	615911
	624951	619471	616431	619411	618451	625001	624431	622071	624131	618671	623881
	619592	621861	619331	622341	614272	619291	615861	611471	618942	616531	623061
		614472	621631		612631	611552	611221	624031	613812		

Tuesday, June 27, 2006

8:30 – 9:20										
Plenary Talk 4: Application of the Mechatronic Design Quotient (MDQ) for Intelligent Design and Evolutionary Design of Mechatronic Systems Prof. Clarence W. de Silva (University of British Columbia, Canada)										
9:20 – 10:10										
Plenary Talk 5: Hyper Human Technology Opens a New World -Let Us See the World that Exceeds Human Capability- Prof. Makoto Kaneko (Hiroshima University, Japan)										
Morning Break										
10:20 – 11:10										
Plenary Talk 6: Towards Autonomous Systems: From Control Systems to Intelligent Control to Intelligent Behavior Generation to Cooperative Autonomy Prof. Kevin Moore (Colorado School of Mines, U.S.A.)										
11:10 – 12:00										
Plenary Talk 7: Robust/Adaptive Fourier-Neural-Network Control for Nonlinear Uncertain Systems Prof. Li-Long Cai (Hong Kong University of Science and Technology, HongKong)										
Lunch Break										
13:30 to 15:30	Session TP1-1: Mobile Robot Control	Session TP1-2: Sensor Network Systems	Session TP1-3: Control Architectures and Agent Systems	Session TP1-4: MEMS and Nano Systems III	Session TP1-5: Localization and Navigation II	Session TP1-6: Robotic Vision and Applications	Session TP1-7: Sensing Device Design	Session TP1-8: Control of Mechatronic Systems II	Session TP1-9: Aerial and Space Robot Control I	Session TP1-10: Control Theory II
	621771	615161	621001	601031	619011	619701	624271	620841	624181	620131
	617511	600041	616411	616212	620291	620831	600912	612911	624291	617771
	614631	623431	621961	617231	621681	621211	616991	617641	617401	600231
	600061	623731	615021	624941	614601	619751	616841	615952	616931	624741
	621871	618291	611261	613151	615822	619372	600561	612511	615321	615042
	621651	600281	611461	616971		600911	624991	620401	614741	615041
Afternoon Break										
15:50 to 17:30	Session TP2-1: Humanoid Robots	Session TP2-2: Medical Robotics and Systems I	Session TP2-3: System Design and Optimization	Session TP2-4: Kinematics and Design of Robots	Session TP2-5: Dynamic Analysis and Control of Manipulators	Session TP2-6: Vision Algorithms and Systems	Session TP2-7: Optical and Image Sensing Systems	Session TP2-8: Control of Mechatronic Systems III	Session TP2-9: Field Robots	Session TP2-10: Control Applications
	617101	615921	614391	615931	621711	615521	620071	620311	621481	615601
	616331	621761	615301	619591	620501	618632	622001	600771	625021	616861
	623921	620591	620271	620031	600731	624981	623841	622501	624491	600203
	614751	618841	619113	622721	615751	623581	622681	620001	621511	619631
	623451	618541	616791	617991	619321	615211	617962	617171	615551	616181
18:30-21:00										
Award Banquet with Performance										

Wednesday, June 28, 2006

8:30 to 10:10	Session WA1-1: Vehicle Control	Session WA1-2: Medical Robotics and Systems II	Session WA1-3: Simulation and Numerical Analysis	Session WA1-4: Networked Systems and Applications	Session WA1-5: Robotic Hands	Session WA1-6: Object Dection and Feature Extraction	Session WA1-7: Visual Servoing and Robotic Vision	Session WA1-8: Mechatronic Applications	Session WA1-9: Aerial and Space Robot Control II	Session WA1-10: Theory and Analysis of Intelligent Control
	615791	620081	614892	615371	615922	617143	612221	625093	618321	622251
	617981	616691	620631	622941	613802	619032	614791	625092	621181	622261
	620891	616751	619021	616681	620441	615661	615361	625091	622801	615421
	620321	613623	618781	617221	614711	618871	625041	617821	618431	617683
	622841	613963	613181	623981	618951	619601	619842	619621		615401
Morning Break										
10:20 to 12:00	Session WA2-1: Biped Robots	Session WA2-2: Medical Robotics and Systems III	Session WA2-3: Monitoring	Session WA2-4: Design and Control of Mechatronic Systems	Session WA2-5: Path Planning	Session WA2-6: 3D Modeling and Image Data Reconstructions	Session WA2-7: Bio & Medical Applications of Vision	Session WA2-8: Analysis and Design of Actuators	Session WA2-9: Aerial and Space Robot Control III	Session WA2-10: Industrial Applications of Intelligent Control
	624351	623831	624451	623281	621202	624141	620461	616831	618822	600601
	619481	620752	624421	618221	618341	618651	623551	617172	618821	620921
	620861	615501	613121	613841	619431	619072	617281	620211	618852	613751
	624332	620091	614251	613061	618511	617791	620931	620471	621882	619251
	620102	625051	622461	617381	613452	616801	622031	600591	619491	619211
Lunch Break										
13:30 to 15:30	Session WP1-1: Manipulator Design and Control	Session WP1-2: Algorithms in Sensor Networks	Session WP1-3: Modeling and Control of Manufacturing	Session WP1-4: Analysis, Modeling and Structure Design	Session WP1-5: Kinematics and Applications of Parallel Robots	Session WP1-6: Image Fusion	Session WP1-7: Gas and Humidity Sensors	Session WP1-8: Actuator Control	Session WP1-9: Control Architectures	Session WP1-10: System Identification and Control
	620011	618711	615201	621171	616581	624711	618521	600542	616951	614612
	615231	624261	615181	621161	612251	620331	619401	616101	614151	616391
	619381	613701	620541	621641	613611	616631	622061	619162	614301	620021
	620791	617542	619611	620751	613811	615722	620711	616271	618412	620201
	611623	615671	617891	615271	622291	618261	618181	621981	618522	620431
	613502	621101	617371	617331	616061	624561	621412	620951	617531	614731
Afternoon Break										
15:50 to 17:30	Session WP 2-1 Fuzzy and ANN Control of Mechatronic Systems	Session WP2-2 Measurements	Session WP2-3 Production Scheduling	Session WP2-4 ITS and Networked Mechatronic Systems	Session WP2-5 Parallel Robot Design	Session WP2-6 Image Compression and Data Reconstruction	Session WP2-7 Applications of Sensing and Feature Recognition	Session WP2-8 Fault Diagnosis	Session WP2-9: System Control Algorithms	Session WP2-10 Intelligent Control System Design
	613642	619781	600541	617271	620731	611361	619841	624422	623171	614111
	613641	620221	619271	613921	617631	618901	620961	623391	615261	615691
	619112	620421	620481	613922	621361	615652	615561	612431	623401	618571
	621321	617301	619272	619961	618741	614831	625011	623232	618301	617661
	622851	617811	620371		613501	614911	620581	623481	615941	614101