

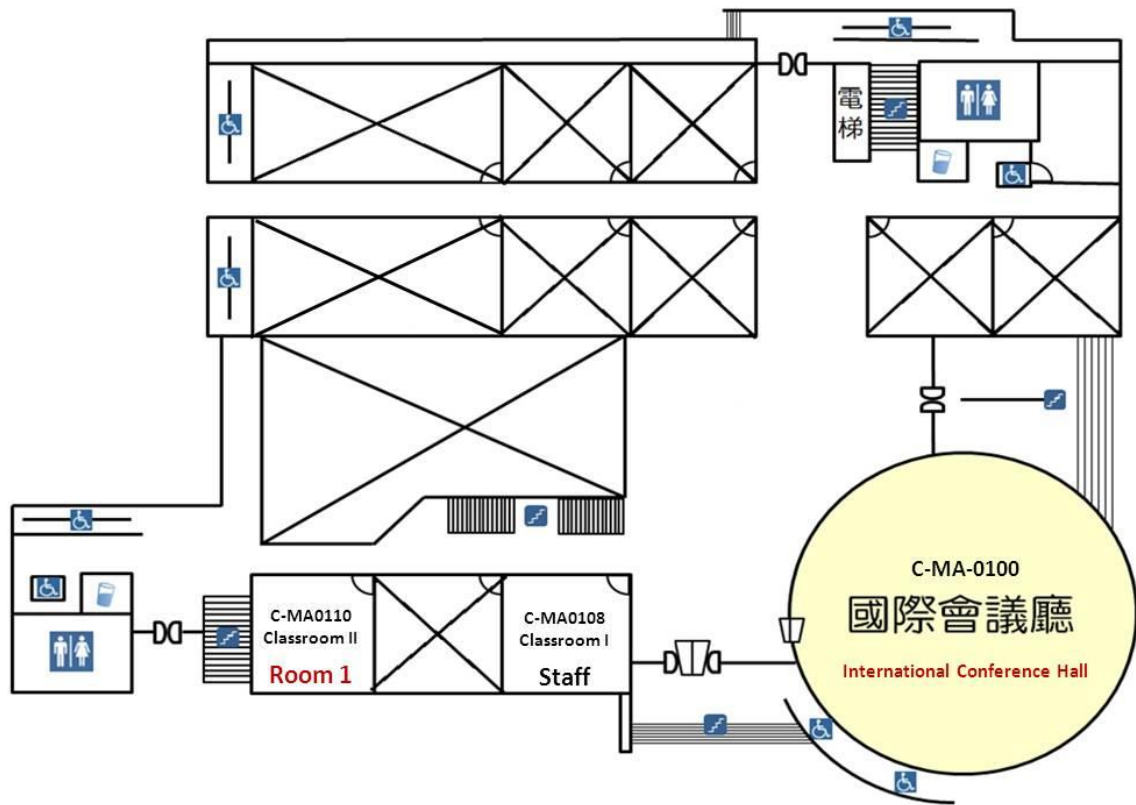
Venue Site

National Formosa University (國立虎尾科技大學), Huwei Township (虎尾鎮), Yunlin County, Taiwan

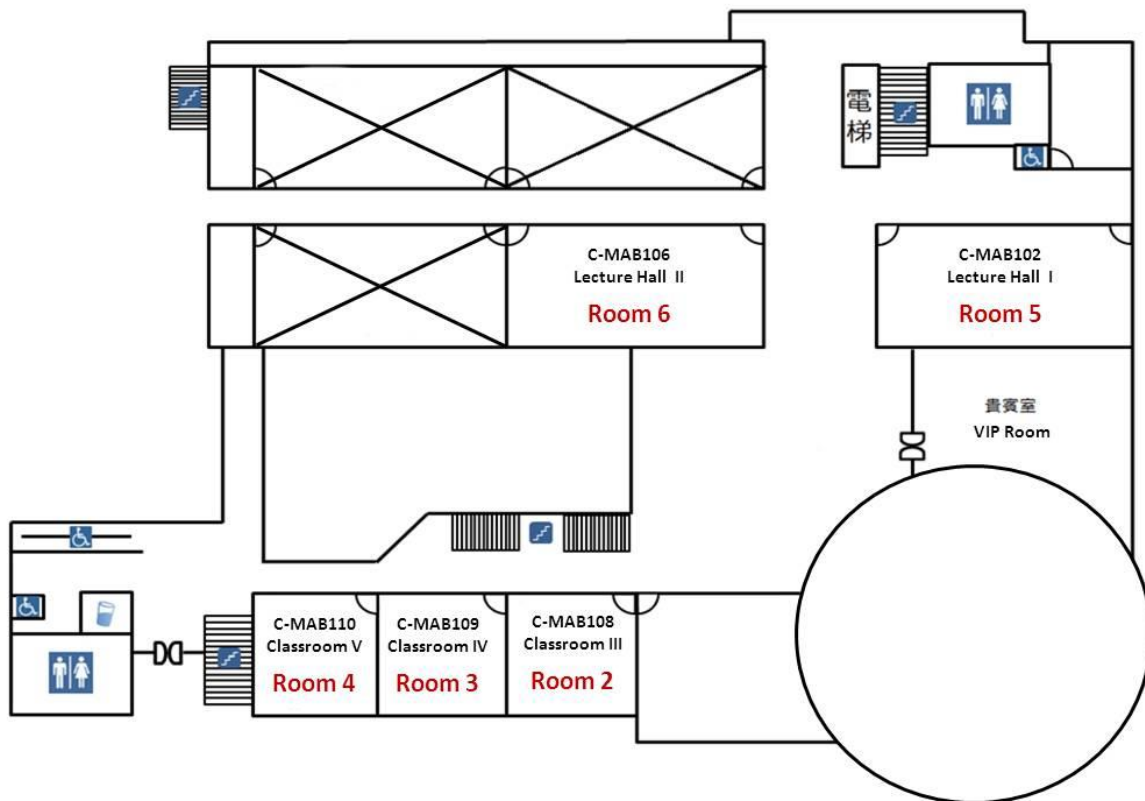
CACS 2012 conference will take place at the Management Building (文理大樓) of the Third Campus (第三校區).



Management Building 1F



Management Building B1



Contents of Technical Program

Development on High Intensity Focused Ultrasound Thermal Therapy Tracking Control on Liver Tumor with Respiration-Induced Periodic Motion (Time: 14:10-15:10) Room 1		Chairman: Prof. Yung-Yaw Chen	
Paper ID	Paper Title	Author(s)	Page Number
#1070	A Normal Design for Treating Tumors Behind Ribs	Yu Tin Chao, Ya Lin Yo, Jia-Yush Yen, Che Jung Hsu, Yung-Yaw Chen, Michael Kam	1
#1080	Multiple Signal Combination and 2D Ultrasound Image Applied on 3D Position Tracking	Feng-Chih Lin, Ching-Kai Lin, Feng-Li Lian	2
#1118	Improvement on the Thickness-direction Resolution of 2D US Image Positioning	Zong-Han Li, Kai-Hsiang Chang, Tsunng-Chih Chen, Ming-Chih Ho, Feng-Li Lian, Jia-Yush Yen, Win Li Lin, Yung-Yaw Chen	3
#1119	Synchronized Tracking of Respiration-Induced Liver Tumor Motion by Ultrasound Imaging	Ming-Hsien Tsai, Kai-Hsiang Chang, Ming-Chun Ko, Ming-Chih Ho, Feng-Li Lian, Jia-Yush Yen, Win Li Lin, Yung-Yaw Chen	4
The Study of Intelligent Robot Applications to the Safety of Intersections (Time: 14:10-15:10) Room 2		Chairman: Prof. Bing-Fei Wu	
Paper ID	Paper Title	Author(s)	Page Number
#1050	Simultaneous Robot Localization and Accompanist Following for Wheelchair Robots using a Camera with Depth information	Bing-Fei Wu, Cheng-Lung Jen, Wun-Fang Li	5

#1079	Vision-based control for an autonomous transportation robot in intersections	Jau Woei Perng, Cheng-Kang Chuang, Wen-Hao Liu, Guan-Yan Chen	6
#1115	Cascade Particle Filter and Kalman Filter with Occlusion Handling for Vehicle Tracking	Bing-Fei Wu, Chih-Chung Kao, Cheng-Leng Jen	7
#1116	A Robust Moving-object Segmentation Algorithm with Shadow Removal	Sheng-Yi Chiu, Meng-Liang Chung, Chung-Cheng Chiu, Bing-Fei Wu	8
Intelligent Servant Robot with High Efficiency Power Management (Time: 14:10-15:10) Room 4		Chairman: Prof. Wen-June Wang	
Paper ID	Paper Title	Author(s)	Page Number
#1052	Design and Implement the Outdoor Patrol Function of a Robotic Vehicle	Hung-Wei Chen, I-Chang Lu, Fan-Ren Chang	9
#1071	The Battery Management System and Intelligent Auto-Recharge Approaches for Servant Robot	Rong-Jyue Wang, Rong-Bin Chen, Shu-Yuan Lin	10
#1099	Visual-Based Object Grasping with a Five-Finger Robot Hand	Guan-Chun Luh, Yu-Chun Chuang	11
#1120	Implementation of A Mobile Robot with Multi-Function: People Following and Elevator Taking	Wen-June Wang, Chun-Fu Chuang, Nai-Jen Li	12
#1123	Intelligent Servant Robot with High Efficiency Power Managementn	Wen-June Wang, Wei Chnag, Chun-Fu Chuang	13
Design and Implementation of Brain Signal Guiding Autonomous Nursing System (Time: 16:30-17:30) Room 1		Chairman: Prof. Kuo-Kai Shyu	
Paper ID	Paper Title	Author(s)	Page Number
#1134	A Self-Calibrated Phase-Tagged SSVEP-Based BCI using Biphasic Stimulation Flicker	Po-Lei Lee, Hsiang-Chih Chang	14

#1135	Circuits Design and Implementation of Brain Signal Guiding Autonomous Nursing System	Kuo-Kai Shyu, Yun-Ren Chiu	15
#1137	Design and Implementation of Brain Signal Guiding Autonomous Nursing System	Kuo-Kai Shyu, Yun-Ren Chiu	16
#1138	Design of Brain Signal Guiding Autonomous Nursing System	Li Jen Chang, Pi-Cheng Tung, Guo-Rong Tang, Bei-Fang Shiao	17
Signal Processing, Identification and Modeling (Time: 16:30-17:30) Room 2		Chairman: Prof. Hsu-Chih Huang	
Paper ID	Paper Title	Author(s)	Page Number
#1019	Active Noise Control by Using Wavelet Function and FXLMS Algorithm	Guo-Wei Wu, Jin-Siang Shaw	18
#1027	Multi-sensor Measurement Fusion Using Adaptive Steady-state Kalman Gain Filter	Li-Wei Fong, Ke-Jia Tang	19
#1011	Modeling and Control of Flywheel Battery System with Halbach Array in Magnetic Bearing	Chow-Shing Toh, Shyh-Leh Chen	20
#1010	Adaptive Switching Control for Servo Mechanic Systems	Tain-Sou Tsay	21
Intelligent Control (Time: 16:30-17:30) Room 4		Chairman: Prof. Cheng-Hung Chen	
Paper ID	Paper Title	Author(s)	Page Number
#1132	A Design of Intelligent Access Control System	Hornng Lin Shieh, Wen-Sheng Chang, Shih-Fong Lin, Syu-Bang Jhang	22
#1063	Systematic Design for the Bluetooth Touch Panel with Application in Intelligent Google Android Phone	Yu-Chih Liao, C.C. Chuang, Ming-Cheng Yang, Jin-Tsong Jeng	23
#1057	Interval Fuzzy Possibilistic C-Means Clustering Algorithm with the Hausdorff Distance Measure	C.C. Chuang Sheng-Chieh, Chang, Jin-Tsong Jeng	24

#1062	TSK-Type Fuzzy Controllers with an Improved Differential Evolution for Ball and Beam System	Cheng-Hung Chen Rong-Zuo Jhang	25
#1106	A Particle Swarm Optimization Based Support Vector Machine for Channel Equalization	Ze-You Li, Chi-Wen Li, Ying-Ren Chien	26
Design and Implication of Home Service Robots with Nature Communication Interface in Natural Environment (Time: 11:00-12:00) Room 5		Chairman: Prof. Tzoo-Hseng S. Li	
Paper ID	Paper Title	Author(s)	Page Number
#1022	A Depth-Camera-based Approach to 3D Object Recognition	Mu-Chun Su, Cheng-Tsung Wu, Yi-Zeng Hsieh, Shih-Chieh Lin, De-Yuan Huang	27
#1092	A Computationally Efficient Algorithm for Simultaneous Localization and Mapping (SLAM)	Chen Chien Hsu, Cheng-Kai Yang, Yin-Tien Wang	28
#1124	Design and Implementation of Grasping Posture Control Scheme for Home Service Robot	Chih-Jui Lin, Cheng-Hao Yeh, Ying-Hao Wang, Hao-En Cheng, Hsuan Lee, Chien-Feng Huang, Tzoo-Hseng S. Li	29
#1122	Implementation of Vision and Navigation System for Mobile Robots	Shih-An Li, Cheng-Yao Ho, Yi Chun Lin, Ming Hua Hsieh, Che Wei Tsau, Ching-Chang Wong	30
A Family of Intelligent Service Robots in a Next Generation Office Building (Time: 11:00-12:00) Room 6		Chairman: Prof. Li-Chen Fu	
Paper ID	Paper Title	Author(s)	Page Number
#1072	Synchronization between the Tail Motion of a Robotic Fish and Human Breathing Cycle	Wei-Kuo Yen, Jen-Hwa Guo	31

#1083	Development of an Office Delivery Robot with Multimodal Human-Robot Interactions	Jong Hann Jean, Chen-Fu Wei	32
#1101	Human-Oriented Recognition for Human-Robot Interaction in an Office Environment	Kai-Siang Ong, Kuan-Ting Yu, Pei-Wen Wu, Yuan-Han Xu, Chien-Ke Liao, Shih-Huan Tseng, Feng-Chi Liu, Li-Chen Fu	33
#1107	Utilizing Hand Shapes for Object Recognition under Hand-Object Interactions	Li Wang, Chung-Che Yu, Chieh-Chih Wang	34
Research and Development of a Zone-Plate-Array Based EUV Direct-Write Lithography System (Time: 11:00-12:00) Room 2		Chairman: Prof. Jia-Yush Yen	
Paper ID	Paper Title	Author(s)	Page Number
#1091	Robust Controller Design and Integration for a Multiple-Axis Pie-zoelectric Nanopositioning Stage	Fu-Cheng Wang, Yan-Chen Tsai, Jia-Yush Yen	35
#1096	The Design and Fabrication of Fresnel Zone Plate for Laser Based Lithography	Jia-Yush Yen, Jyun Yan Chuang	36
#1109	Vacuum System Design and Manufacturing for EUV Direct-Write Lithography	Tien-Tung Chung, Yi Ting Tu, Chih Kang Lu, Yi Feng Chen	37
New Generation Intelligent Omni-Directional Home Care Systems (Time: 11:00-12:00) Room 4		Chairman: Prof. Tsu-Tian Lee	
Paper ID	Paper Title	Author(s)	Page Number
#1066	Design and Implementation of an Interactive Robot for a Connect Four Game	Chun-Fei Hsu, Li-Hao Kan, Chun-An Chung	38
#1069	New Generation Intelligent Omni-Directional Home Care Systems (2/3)	Tsu-Tian Lee, Ying-Hao Yu, Hsin Han Chiang	39

#1089	An Event-Triggered Transmission Policy for Simultaneous Stabilization of Networked Control Systems	Sheng-Hsiung Yang, Jenq-Lang Wu	40
#1094	Development of an Intelligent Walking-aid Mobile Robot System	Jau Woei Perng, Pei-Lun Huang, Guan-Yan Chen, Tsu-Tian Lee	41
#1117	Gesture Recognition Using Improved Hierarchical Hidden Markov Model	Kuang-Yow Lian, Ben-Huang Lin	42
Best Paper Award Session (Time: 13:10-14:30) Room 5		Chairman: Prof. Wei-Yen Wang Prof. Yo-Ping Huang	
Paper ID	Paper Title	Author(s)	Page Number
#1023	Modeling of Synthetic Biological Oscillators Based on S-system Model	Chia-Hua Chuang, Chun-Liang Lin	43
#1035	Adaptive Iterative Learning Control for a Class of Nonlinear Discrete-Time Systems with Random Bounded Disturbance	Chiang-Ju Chien, Ying-Chung Wang	44
#1028	Application of Multiobjective Evolutionary Algorithms to Integrated Airline Scheduling Problems	Chiu-Hung Chen, Jyh-Horng Chou	45
#1111	Adaptive Hermite-Polynomial-Based CMAC Neural Control for Chaos Synchronization	Chun-Fei Hsu	46
#1059	A Revisit to Stability Conditions of Linear Systems with Interval Time-Varying Delay	Kuang-Yow Lian, Yong-Sheng Lin, Jia-Jiun Hsu	47
#1034	Robust Stabilization of a Class of Unknown Switched Nonlinear Systems	Ming-Li Chiang, Li-Chen Fu	48
Fuzzy Systems and Control (Time: 13:10-14:30) Room 6		Chairman: Prof. Gwo-Ruey Yu	
Paper ID	Paper Title	Author(s)	Page Number
#1044	Model Reference Observer-based Guaranteed Cost Fuzzy Tracking Control Design for Nonlinear Systems	Chien-Hung Liu, Kuang-Yow Lian	49
#1060	Type Reduction Using Quantum Evolutionary Algorithms for Interval Type-2 Fuzzy Sets	Gwo-Ruey Yu, Jen-Yu Hsiao, Tzyy-Chyang Lu	50

#1061	The Design of Polynomial Fuzzy Controller with Quantum Evolutionary Algorithms	Gwo-Ruey Yu, Tzyy-Chyang Lu Lun-Wei Huang Chih-Yung Cheng	51
#1064	An Extended Model-Based Systems: Studying On Discrete Singular Fuzzy Systems With Multiple Difference Matrices	Chih Peng Huang	52
#1077	Robust T-S Fuzzy Control of a Wheeled Mobile Robot Using Genetic Algorithms	Gwo-Ruey Yu, Chih-Heng Chang	53
#1055	Implementation of Single Input Adaptive Fuzzy Logic Controller with Self-tuning Fuzzy Sliding Mode Compensation for Electro-hydraulic Servo Mechanism	Lian-Wang Lee, I-Hsum Li, Hsin Han Chiang Wei-Hao Wang, Wei-Yen Wang	54
Control and Industrial Applications (Time: 13:10-14:30) Room 2		Chairman: Prof. Chung-Neng Huang Prof. C. C. Chuang	
Paper ID	Paper Title	Author(s)	Page Number
#1046	Mobile Robot Localization and Map Building in an Intelligent Space	Wen-Chung Chang, Yi-Yang Hung	55
#1047	An Automatic Bin-Picking System for Plumbing Parts	Wen-Chung Chang, Chia-Hung Wu, Jyh-Jye Jeng, Bor-Tung Jiang	56
#1018	Anti-Lock Braking Control for Electric Scooters	Weng-Ching Lin, Chun-Liang Lin, Chia-Hong Tu	57
#1133	Demonstration and Analysis of a Vehicular X-by-Wire System on FlexRay Communication Network	Chau-Chung Song, Wei-Chi Chen, Yi-Chung Wang	58
#1025	Development of Nonlinear Control Design for an Intelligent PID Controller	Arron Chung, Chung-Neng Huang	59
#1036	Design of PID Controller for Cascade Control Systems Directly from Plant Data	Jyh-Cheng Jeng, Xin-Jia Liao	60
Linear Systems and Robust Control (Time: 13:10-14:30) Room 3		Chairman: Prof. Chih-Ching Hsiao Prof. Jeang-Lin Chang	
Paper ID	Paper Title	Author(s)	Page Number
#1030	H-infinity Decentralized Output Feedback Synthesis in Finite Frequency Domain for Continuous-Time Linear Systems	Yung-Shan Chou Yun-Lun Chang	61

#1078	Fixed-manifold Robust Controller Design for a step-down dc-dc converter	Fu-Kuang Yeh	62
#1013	Sliding Mode Disturbance Observer-Based Dynamic Output Feed-back Controller Design	Jeang-Lin Chang	63
#1053	Fuzzy Grey Sliding Mode Control for Maximum Power Point Tracking of Photovoltaic Systems	Guo-Wei Hong, Jung-Shan Lin, Kai-Yew Lum	64
#1058	Hierarchical Nonsingular Terminal Sliding mode Control for an Automatic 3D Overhead Crane	Hsiao-Lang Wu Ching-Chih Tsai	65
#1045	Performance Analysis of Integrated Navigation Techniques for a Gardening Mobile Robot using Multiple Low-cost Microelectromechanical Sensors	Chung-Liang Chang, Bo-Han Wu, Yong-Cheng Huang	66
Nonlinear Systems and Control (Time: 13:10-14:30) Room 4		Chairman: Prof. Chiang-Ju Chien Prof. Jenq-Lang Wu	
Paper ID	Paper Title	Author(s)	Page Number
#1009	A Nonlinear Visual Control Method for Mobile Robot Navigation	Shigeru Uchikado, OSA Yasuhiro, Tanaka Kanya	67
#1020	Balance Control of a Rotary Inverted Pendulum Actuated by an Omnidirectional Mobile Robot	Sho-Tsung Kao Yueh-Han Li Ming-Tzu Ho	68
#1041	Micro-satellite Attitude Determination and Control Subsystem Design and Implementation: Software-in-the-loop Approach	Chen-Tsung Lin Ho-Nien Shou	69
#1012	A Cooperative Brake Control for Multi-Motor Driving Electric Vehicles	Wen-Po Chiang, Dejun Yin, Hiroshi Shimizu	70
#1040	Design of Statistical Fault Diagnosis System of Induction Motor Bearing using Database of Current Analysis	Hyeon Seok Jang, Young Jin Lee, Kwon Soon Lee	71
#1024	Implementation of Distributed Real-Time Multitasking Control Systems Using PC/104-plus and Linux-RTAI	Po-Lung Huang, Jih-Yuan Syu, Ming-Tzu Ho	72
#1068	Stabilizing Controller Design for Multiple-Input Switched Nonlinear Control Systems under Arbitrary Switching	Jenq-Lang Wu, June-Hong Lin	73

Intelligent Service Robots with Dual Arms (Time: 14:30-15:40) Room 5		Chairman: Prof. Ching-Chih Tsai	
Paper ID	Paper Title	Author(s)	Page Number
#1021	Development of WV-SLAM Algorithm and Achieving the Path Planning Using a Laser Scanner	Guo-Shing Huang, Guan-Rong Chou, Chung-Liang Chang	74
#1032	Autonomous Vision-Guided Grasping of an Anthropomorphous Dual-Arm Mobile Robot	Ching-Chih Tsai, Chih-Tsang Chi, Yi-Yu Li	75
#1033	Low-Cost Global Localization by Fusing Dead-Reckoning and KINECT Measurements for Anthropomorphous Dual-Arm Mobile Robots	Ching-Chih Tsai, Yu-Cheng Wang, Feng-Chun Tai	76
#1043	The Study and Application of Compliance Capability Based on Interior Stress Sensing	Kao-Shing Hwang, Chia-Hao Hsu, Wei-Cheng Jiang	77
#1048	High Level and Low Level Behavior Planning of a Service Robot in a Context-Aware System Environment	Chia-Hung Chen, Alan Liu, Pei-Chuan Zhou	78
#1051	Global Path Planning for Mobile Robot Navigation Using Artificial Immune System Algorithm	Hsu-Chih Huang, Ter-Feng Wu, Chien-Lung Wu, Huan-Shiuan Hsu	79
#1056	Towards biological inspired methods of anticipation in service robots	Michael N. Mayer, Alan Liu, Li-Wei Lu, Wei-Lun Lin,	80
Development of Next Generation Intelligent Public Transportation Systems (Time: 14:30-15:40) Room 6		Chairman: Prof. Der-Cherng Liaw	
Paper ID	Paper Title	Author(s)	Page Number
#1087	A TDMA Based Scheme for the Remote Hopping Communication Platform Used in Intelligence Transportation System	Der-Cherng Liaw, Chih-Chiang Kuo	81
#1088	A Real Time Interactive Scheme for the Construction of Back-End Support and Decision Center Used in Intelligence Transportation System	Der-Cherng Liaw, Cheng-Yu Yu, Jing-Hong Lai	82

#1093	FPGA Prototype of Intelligent Interactive Electronic Tickets	Lan-Rong Dung, Chang-Ting Chen	83
#1095	Bus Transportation Traffic Estimation within a Unified Unknown Input Filtering Framework	Chien-Shu Hsieh, Chao-Wei Liu, Der-Cherng Liaw	84
#1097	Crowd Estimation at Bus Station using Template Comparison and Iterative Mean-shift Algorithm	Sheng-Fuu Lin, Yu Pi Hung, Jiann Liang Chen, Ting Ting Chang	85
Neural Networks and Systems Biology (Time: 14:30-15:40) Room 2		Chairman: Prof. Chun-Fei Hsu	
Paper ID	Paper Title	Author(s)	Page Number
#1016	An LMI Approach to Stability Analysis of Delayed Genetic Regulatory Networks	Cheng-Fa Cheng, Yung-Chieh Lin, Yu-Syuan Jhong	86
#1006	On-Line Approximation of a 6-dof Parallel Manipulator with a MIMO Self-Constructing Neural Fuzzy Inference Network	Sung-Hua Chen, Ming-Feng Han, Chin-Teng Lin	87
#1037	Ziegler-Nichols-Based Intelligent Fuzzy-Neural Controller Design of a SPM System	Jium-Ming Lin, Cheng-Hung Lin	88
#1029	Using adaptive MIMO CMAC for Wheeled Inverted Pendulum control	Chih-Hui Chiu, Jing-Shiang Lin	89
#1031	An Adaptive Output Recurrent Cerebellar Model Articulation Control System for Omni-directional Spherical Robot Control	Chih-Hui Chiu, Tsung Sheng Huang, Shu Yu Wu	90
Investigation of Meal Assistance Robotic Techniques (Time: 14:30-15:40) Room 3		Chairman: Prof. Ming-Shyan Wang	
Paper ID	Paper Title	Author(s)	Page Number
#1126	Hardware Implementation of Arctangent and Arccosine Function for the Inverse Kinematics in Robot Arm	Ying-Shieh Kung, Ming-Kuang Wu, Tz-Han Jung, Feng-Chi Lee, Wen-Chuan Chen	91
#1127	Flexible Tactile Sensor for Detecting of Incident Slippage and Contact Force	Cheng-Hsin Chuang, Jian-Liang Mu, Ming-Shyan Wang, Chin-Ting Lin	92

#1128	Adopting BCI Remote Control for Air Swimmer	Shih-Chung Chen, Chin-Yu Su, Ching-Kai Huang, Ming-Yuan Shieh, Aaron Raymond See, Hsun-Yao Ke	93
#1129	Control of Three-Finger Gripper	Ming-Shyan Wang, Wen-Yih Wang, Pei-Lin Tssai, Ying-Shieh Kung,	94
#1131	The Foot Design of Biped Robots with Arch Structure for Stable Gait Control	Ming-Yuan Shieh, Shih-Chung Chen, Kun-Hung Lee, Iean-Hau Chen, Jeng-Han Li	95
Sensing Technology and Its Application (Time: 14:30-15:40) Room 4		Chairman: Prof. Mei-Yung Chen	
Paper ID	Paper Title	Author(s)	Page Number
#1038	The Design of Robotic Face Drawing Control System	Huan-Wen Tzeng, Chung-Chia Lee	96
#1039	The Identity Recognition System Based on Laser pointer Ranging technology	Huan-Wen Tzeng, Wen Hung Hsaio	97
#1049	Applying RFID on Indoor Navigation System for the Visually Impaired	Zong-Han Lin, Che-Sheng Hsu, Mei-Yung Chen	98
#1067	An Eye Mouse Control System Based on FPGA Technology	Yih Ran Sheu, Juing Shian Chiou, Cheng-Hsin Chuang, Van Binh Nguyen, Wen-Li Shen, Yao Wei Tseng	99
#1100	A Low Power Photovoltaic Energy Harvesting Device	Shuo-Fu Chen, Ton-Churo Huang, Cong-Bei Chen, Yih-Guang Leu, Yuan-Chang Chang, Sheng-Yun Hou	100

Design and Implementation of Rescue Robot Systems (Time: 16:00-17:00) Room 5		Chairman: Prof. Ching-Chang Wong	
Paper ID	Paper Title	Author(s)	Page Number
#1075	An Adaptive Dynamic Range Compression with Local Contrast Enhancement Algorithm for Color Image Enhancement	Chi-Yi Tsai, Chih-Hang Huang	101
#1113	Design Variable-frequency Controller for Driving DC Motor	Shih-An Li, Ching-Yang Yang, Chih-En Wu, Chia-Hung Lo	102
#1114	Non-verbal Human Robot Interaction via Time-varying Fuzzy Markov Estimation of Human Intention Probability	Peter Liu, Chang-En Yang	103
#1121	Mechanical Design of Crawler-Type Chassis Robot: TKUCTR-I	Ching-Chang Wong, Shih-An Li, Hsiang Min Chan, Cheng-Yao Ho, Chien Hsiang Huang	104
Adaptive Task Planning and Control of Assistive Robots Based on Multi-Modal Sensing (Time: 16:00-17:00) Room 6		Chairman: Prof. Kai-Tai Song	
Paper ID	Paper Title	Author(s)	Page Number
#1076	Self-improvement Robot Skill Learning for Hand Tasks of Service Robot	Hsien-I Lin, Chun-Chia Lai	105
#1081	Fusion of Autonomous Navigation and Visual Tracking for Interactive Mobile Robots	Kai-Tai Song, Shang-Chun Hung	106
#1102	Pose Control of a Four-Wheel Drive Omni-directional Mobile Robot	Kai-Tai Song, Sin-Yi Jiang, Chia-Chang Wu	107
#1104	Visual Odometer Combining IMU and Image De-blur Technique	Jwu-Sheng Hu, Chin-Yuan Tseng, Ming Yuan Chen	108
#1112	Robot Manipulation with Force and Visual Assistance	Chia-Wen Wu, Shun-Sheng Chuang, Kuu-young Young	109

Design and Implementation of Adult-Size Decathlon Humanoid Robots (Time: 16:00-17:00) Room 2		Chairman: Prof. Tzoo-Hseng S. Li	
Paper ID	Paper Title	Author(s)	Page Number
#1074	The Study on the Learning of Walking Gaits for Biped Robots	Kao-Shing Hwang, Keng-Hao Yeh, Wei-Cheng Jiang	110
#1105	Design and Implementation of Big Humanoid Robot Walking Patterns Based on Inverted Pendulum Approach	Kuo-Yang Tu, Ming-Fung Tsai	111
#1108	Development of an Adult-size Humanoid Robot for RoboCup Soccer Games	Chung-Hsien Kuo, Hung-Chyun Chou, Jui-Chou Chung, Yu-De Lien, Shou-Wei Chi, Min-Hsiu Wu	112
#1125	Vision and Control Schemes of Weight Lifting Competition for Adult-sized Humanoid Robot	Ping-Huan Kuo, Ya-Fang Ho, Hsin-Yang Hsiao, Li-Heng Tai, Ting-Chieh Yu, Tzoo-Hseng S. Li	113
Night-Vision-Based Group Autonomous Robots for Patrolling the Campus (Time: 16:00-17:00) Room 4		Chairman: Prof. Wei-Yen Wang	
Paper ID	Paper Title	Author(s)	Page Number
#1054	A Control Design of Kinect-Sensor-Based Tracked Robot for an Unknown Ramp Environment	I-Hsum Li, Nai-Hong Fang, Wei-Yen Wang, Yi-Hsing Chien	114
#1082	Design and Implementation of FPGA-Based Distance Measuring System	Ming-Chih Lu, Yu-Chang Wang, Cheng-Pei Tsai, Wei-Yen Wang	115
#1090	Household Kitchen Fire Detection System based on Infrared Image Analysis Technology	Huan-Wen Tzeng Bor-Jyh Chen	116
#1110	Measurement of Pedestrians' Orientation and Distance based on Thermal Image	Shiang Li Chang, Che-Wei Chang, Fu-Ci Yang	117

#1130	Adaptive Dynamic Controller for Path Tracking of Autonomous Mobile Robot	Wei-Yen Wang, Yi-Hsing Chien, Yi-Feng Kao, I-Hsum LI	118
-------	---	---	-----