

SICE Annual Conference 2007 Session Table (September 18 (TUE))

09:00 - 10:00 Plenary Talk I / Auditorium
 "Robotic Space Exploration Technology Development and Mission Infusion" Dr. Richard Volpe (NASA/JPL, U.S.A.)

	Room1	Room2	Room3
10:30	1A01 <u>Signal Processing (1)</u> Chair: Masaaki Nagahara (Kyoto Univ.)	1A02 <u>OS: Recent Advances in Mechanical Metrology (1)</u> Chair: Toshiyuki Hayashi (AIST)	1A03 <u>Identification and Estimation</u> Chair: Yuji Wakasa (Yamaguchi Univ.)
12:30			
13:30		1B02 <u>OS: Recent Advances in Mechanical Metrology (2)</u> Chair: Toshiyuki Hayashi (AIST)	1B03 <u>OS: Rangefinders</u> Chairs: Kozo Ohtani (Hiroshima Inst. of Tech.), Kiyoshi Nishimoto (Hiroshima Inst. of Tech.)
15:10			
15:30	1C01 <u>Signal Processing in Medical and Biological Engineering</u> Chair: Hiroyuki Shinoda (Univ. of Tokyo)	1C02 <u>Opto-Electronic Engineering</u> Chair: Teruo Yamaguchi (Kumamoto Univ.)	1C03 <u>OS: Visual 3-D Measurement</u> Chairs: Satoru Takahashi (Kagawa Univ.), Shunichi Kaneko (Hokkaido Univ.)
17:50			

	Room7	Room8	Room9
10:30	1A07 <u>OS: Inverse Problems</u> Chair: Kenbu Teramoto (Saga Univ.)	1A08 <u>Intelligent Control (1)</u> Chairs: Shun Ushida (Tohoku Univ.), Toru Asai (Osaka Univ.)	1A09 <u>OS: Emerging Control Technologies</u> Chairs: Jae Weon Choi (Pusan National Univ.), Jea Soo Kim (Korea Maritime Univ.)
12:30			
13:30	1B07 <u>Adaptive Control (1)</u> Chairs: Takeshi Nishida (Kyushu Inst. of Tech.), Yoshihiko Miyasato (Inst. of Statistical Math.)	1B08 <u>OS: Medical Care and Welfare Engineering as a Man-Machine System (1)</u> Chairs: Shoichiro Fujisawa (Univ. of Tokushima), Yoshihiko Takahashi (Kanagawa Inst. of Tech.)	1B09 <u>OS: AUN/Seed-Net Benchmark Problem on Control Engineering: Robust Control for Twin-Inverted Pendula</u> Chairs: Masaki Yamakita (Tokyo Inst. of Tech.), Shinji Hara (Univ. of Tokyo)
15:10			
15:30	1C07 <u>Process Control</u> Chairs: Yasuchika Mori (Tokyo Metropolitan Univ.), Takanori Yamazaki (Oyama National College of Tech.)	1C08 <u>OS: Medical Care and Welfare Engineering as a Man-Machine System (2)</u> Chairs: Shoichiro Fujisawa (Univ. of Tokushima), Yoshihiko Takahashi (Kanagawa Inst. of Tech.)	1C09 <u>OS: Recent Advances in Distributed Parameter Systems</u> Chairs: Jun Imai (Okayama Univ.), Hideki Sano (Kagoshima Univ.)
17:50			

	Room13	Room14	Room15
10:30		1A14 <u>OS: Observing Human</u> Chairs: Kazuhiko Yamamoto (Gifu Univ.), Hidehiro Ohki (Oita Univ.)	1A15 <u>OS: Ubiquitous Healthcare</u> Chair: Masayuki Nambu (Osaka Electro-Communication Univ.)
12:30			
13:30		1B14 <u>OS: Theory and Application of Histogram Frequency Image and Co-occurrence Frequency Image</u> Chairs: Hiroyasu Koshimizu (Chukyo Univ.), Shunichiro Oe (Univ. of Tokushima)	1B15 <u>OS: Interaction and Intelligence</u> Chairs: Masaya Takasaki (Saitama Univ.), Hiroshi Kobayashi (Tokyo Univ. of Sci.)
15:10			
15:30	1C13 <u>Neural Networks and their Application</u> Chair: Mamoru Minami (Fukui Univ.)	1C14 <u>OS: Biomimetic Approach in Robotics and Machines</u> Chairs: Keigo Watanabe (Saga Univ.), Yutaka Maeda (Kansai Univ.)	
17:50			

17:50 - 19:30 Evening Hour / University Hall (Reception Room)

Room4	Room5	Room6
10:30 - 18:00 <u>Workshop: Life Science and SICE Technologies</u> - Towards Collaboration among SICE Technical Divisions	1A05 <u>Mechanical Systems Control (1)</u> Chairs: Hisakazu Nakamura (Nara Inst. of Sci. and Tech.), Masafumi Hamaguchi (Shimane Univ.)	1A06 <u>Nonlinear Control (1)</u> Chairs: Kazuhiro Yubai (Mie Univ.), Yoshifumi Okuyama (Humanitech Laboratory)
	1B05 <u>Robust Control (1)</u> Chairs: Kang-Zhi Liu (Chiba Univ.), Katsumi Moriwaki (Univ. of Shiga Prefecture)	
	1C05 <u>SICE Tutorial Seminar</u>	1C06 <u>Medical and Welfare Systems</u> Chair: Hirokazu Seki (Chiba Inst. of Tech.)

Room10	Room11	Room12
1A10 <u>OS: Frontline of BIX (BioInformation eXchange) Research</u> Chairs: Hiroaki Ishizawa (Shinshu Univ.), Atsushi Hashimoto (Mie Univ.)	1A11 <u>OS: Micromechatronics for Biomedical Applications</u> Chair: Shuxiang Guo (Kagawa Univ.)	1A12 <u>Intelligent Systems and Control</u> Chair: Keigo Watanabe (Saga Univ.)
1B10 <u>OS: Dependable System Design in Discrete Event Systems</u> Chair: Tatsuya Suzuki (Nagoya Univ.)	1B11 <u>Systems and Education</u> Chair: Yoshitaka Fujiwara (Kitami Inst. of Tech.)	
1C10 <u>OS: Unconventional Computation and Communication</u> Chair: Hideaki Suzuki (NICT)	1C11 <u>OS: System Analysis and Intelligent Design of Multiple Interactive Systems</u> Chair: Kuang-Yow Lian (Chung-Yuan Christian Univ.)	1C12 <u>Systems Theory and Engineering</u> Chair: Takao Terano (Tokyo Inst. of Tech.)

Room16	Room17	Poster Room
1A16 <u>Robot Control (1)</u> Chair: Masaki Yamakita (Tokyo Inst. of Tech.)	1A17 <u>Human Interface (1)</u> Chairs: Kiyomi Nakamura (Toyama Prefectural Univ.), Hidenori Ishihara (Kagawa Univ.)	10:30 - 17:50 <u>Poster Session: Activities of SICE Technical and Research Committees</u>
1B16 <u>Mechatronics Systems</u> Chair: Chang Cai (Kagawa Univ.)	1B17 <u>Human Interface (2)</u> Chair: Makoto Itoh (Univ. of Tsukuba)	
1C16 <u>Robot Control (2)</u> Chair: Kanji Tanaka (Kyusyu Univ.)	1C17 <u>Robot Arm and Manipulator</u> Chair: Masakazu Suzuki (Tokai Univ)	

SICE Annual Conference 2007 Session Table (September 19 (WED))

09:00 - 10:00 Plenary Talk II / Auditorium
 "Control and Life ----- From Homeostasis To Allostasis" Dr. Hidenori Kimura (RIKEN, Japan)

	Room1	Room2	Room3
10:30	2A01 <u>Neural Networks</u> Chairs: Noriyasu Homma (Tohoku Univ.), Keiji Tatsumi (Osaka Univ.)	2A02 <u>OS: Human Factors in Vehicle Operation</u> Chair: Shun'ichi Doi (Kagawa Univ.)	2A03 <u>OS: Evolutionary and Distributed Systems Towards Real-world Applications (1)</u> Chairs: Keiki Takadama (Univ. of Electro-Communications), Katsunori Shimohara (Doshisha Univ.)
12:30			
13:30		2B02 <u>Intelligent Systems</u> Chair: Hiroshi Kawakami (Kyoto Univ.)	2B03 <u>OS: Evolutionary and Distributed Systems Towards Real-world Applications (2)</u> Chairs: Keiki Takadama (Univ. of Electro-Communications), Katsunori Shimohara (Doshisha Univ.)
15:10			

	Room7	Room8	Room9
10:30	2A07 <u>Adaptive Control (2)</u> Chairs: Akira Sano (Keio Univ.), Kazuya Sato (Saga Univ.)	2A08 <u>Optimization and Reinforcement Learning</u> Chair: Hitoshi Iima (Kyoto Inst. of Tech.)	2A09 <u>OS: Methods of Control Engineering in Systems Biology</u> Chair: Oliver Sawodny (Univ. of Stuttgart)
12:30			
13:30	2B07 <u>Modeling, System Identification and Estimation (1)</u> Chairs: Shosuke Suzuki (Tohoku Bunka Gakuen Univ.), Franz Mesch (Univ. Karlsruhe)	2B08 <u>Network Systems</u> Chair: Hideto Iwaoka (Kanazawa Inst. of Tech.)	2B09 <u>OS: Recent Advances in Automotive Control</u> Chairs: Shen Tielong (Sophia Univ.), Taketoshi Kawabe (Kyushu Univ.)
15:10			

	Room13	Room14	Room15
10:30		2A14 <u>OS: Advanced Image-Based Measurement</u> Chairs: Hirobumi Nishida (Ricoh Co., Ltd.), Tomokazu Sato (Nara Inst. of Sci. and Tech.)	2A15 <u>Robot Control (3)</u> Chairs: Yuichi Tsumaki (Hirosaki Univ.), Kanji Tanaka (Kyusyu Univ.)
12:30			
13:30		2B14 <u>OS: Sound and Vibration Measurement</u> Chair: Kenbu Teramoto (Saga Univ.)	2B15 <u>OS: SICE City</u> Chairs: Kazuhiko Sumi (Mitsubishi Electric Corporation), Naoyuki Kubota (Tokyo Metropolitan Univ.)
15:10			

15:30 - 16:30 Invited Speech / Auditorium
 "Estimation of "Oishisa" of Udon (Japanese noodle)" Dr. Yoshimasa Yamano (Institute of OISHISA Science, Japan)

16:30 - 17:30 Awards Ceremony / Auditorium

18:30 - 20:30 Banquet / ANA Hotel CLEMENT TAKAMATSU (TAMAMO room)

Room4	Room5	Room6
<p>2A04</p> <p><u>OS: International Share of Information on Measurement Science and Sensing Technologies</u> Chairs: Toshiro Ono (Okayama Univ. of Sci.), Hiro Yamasaki (Univ. of Tokyo)</p>	<p>2A05</p> <p><u>Mechanical Systems Control (2)</u> Chairs: Fujio Ikeda (Kochi National College of Tech.), Shigeki Nakaura (Tokyo Inst. of Tech.)</p>	<p>2A06</p> <p><u>Nonlinear Control (2)</u> Chairs: Tomohisa Hayakawa (Tokyo Inst. of Tech.), Yuh Yamashita (Hokkaido Univ.)</p>
<p>2B04</p> <p><u>OS: Web-based Technologies in Exploratory Learning and Monitoring Cognition</u> Chair: Toshihiro Hayashi (Kagawa Univ.)</p>	<p>2B05</p> <p><u>Robust Control (2)</u> Chairs: Makoto Katoh (Osaka Inst. of Tech.), Hiroaki Mukaidani (Hiroshima Univ.)</p>	<p>2B06</p> <p><u>Manufacturing Systems</u> Chair: Hidekata Hontani (Nagoya Inst. of Tech.)</p>

Room10	Room11	Room12
<p>2A10</p> <p><u>OS: Recent Progress in Temperature Measurement (1)</u> Chairs: Tadashi Ito (Gunma Univ.), Hiroaki Aizawa (Toyo Univ.)</p>	<p>2A11</p> <p><u>Signal Processing (2)</u> Chair: Norikazu Ikoma (Kyushu Tech.)</p>	<p>2A12</p> <p><u>Transportation Systems</u> Chairs: Min Cheol Lee (Pusan National Univ.), Haruo Takatsu (Yokogawa Electric Co.)</p>
<p>2B10</p> <p><u>OS: Recent Progress in Temperature Measurement (2)</u> Chairs: Tadashi Ito (Gunma Univ.), Tokio Hamada (Tanaka Kikinzoku Kogyo K.K.)</p>	<p>2B11</p> <p><u>Sensor and Transducer (1)</u> Chair: Shoji Adachi (Yokogawa Electric Corp.)</p>	<p>2B12</p> <p><u>Remote Sensing</u> Chair: Minoru Sasaki (Gifu Univ.)</p>

Room16	Room17	Poster Room
<p>2A16</p> <p><u>OS: Sensing, Control and Safety Systems for Smart Vehicle Automation (1)</u> Chair: Masafumi Hashimoto (Doshisha Univ.)</p>		<p>10:30 - 15:10</p> <p><u>Poster Session:</u> <u>Activities of SICE Technical and Research Committees</u></p> <p>11:00 - 14:00 dialogue hours</p>
<p>2B16</p> <p><u>OS: Sensing, Control and Safety Systems for Smart Vehicle Automation (2)</u> Chair: Mamoru Minami (Univ. of Fukui)</p>	<p>2B17</p> <p><u>Human Interface (3)</u> Chair: Hideyuki Sawada (Kagawa Univ.)</p>	

SICE Annual Conference 2007 Session Table (September 20 (THU))

09:00 - 10:00 Plenary Talk III / Auditorium
 "The LHC at CERN: technical frontier aspects of the world largest scientific instrument" Mr. Alain Poncet (CERN, Switzerland)

	Room1	Room2	Room3
10:30	3A01 <u>Systems Theory and Intelligent Systems</u> Chair: Kiminao Kogiso (Nara Institute of Sci. and Tech.)	3A02 <u>Biological and Physiological Engineering (1)</u> Chair: Hiroaki Mizuhara (Kyoto Univ.)	3A03 <u>OS: Computational Intelligence in Neural Networks (1)</u> Chairs: Yasuaki Kuroe (Kyoto Inst. of Tech.), Hiroaki Nakanishi (Kyoto Univ.)
12:30			
13:30			3B03 <u>OS: Computational Intelligence in Neural Networks (2)</u> Chairs: Yasuaki Kuroe (Kyoto Inst. of Tech.), Hiroaki Nakanishi (Kyoto Univ.)
15:10			
15:30	3C01 <u>Genetic Algorithm and Genetic Programming</u> Chair: Toshiharu Hatanaka (Osaka Univ.)	3C02 <u>Biological and Physiological Engineering (2)</u> Chair: Reiko J. Tanaka (RIKEN BMC)	3C03 <u>OS: New Trends in Reinforcement Learning</u> Chairs: Keiki Takadama (Univ. of Electro-Communications), Kazuteru Miyazaki (National Institution for Academic Degrees and Univ. Evaluation)
17:50			

	Room7	Room8	Room9
10:30	3A07 <u>Signal Processing (3)</u> Chair: Shogo Tanaka (Yamaguchi Univ.)	3A08 <u>OS: System Integration and Control Design for Autonomous Mobile Robots</u> Chair: Li Tzuo-Hseng (National Cheng Kung Univ.)	3A09 <u>OS: Tactile Sensing</u> Chair: Hideyuki Sawada (Kagawa Univ.)
12:30			
13:30	3B07 <u>Sensor and Transducer (2)</u> Chair: Toshiyuki Tanaka (Keio Univ.)	3B08 <u>OS: Safety and Cyber Security for Industrial Automation (1)</u> Chairs: Koji Demachi (Yokogawa Electric Corporation), Yoichi Takayanagi (Toshiba Corporation)	3B09 <u>OS: Intelligent Sensor System and Its Application</u> Chair: Satoru Takahashi (Kagawa Univ.)
15:10			
15:30	3C07 <u>Signal Processing (4)</u> Chair: Kajiro Watanabe (Hosei Univ.)	3C08 <u>OS: Safety and Cyber Security for Industrial Automation (2)</u> Chairs: Tsutomu Yamada (Hitachi, Ltd.), Masami Hasegawa (Fuji Electric Systems Co.,Ltd.)	3C09 <u>OS: Networked Sensing Systems</u> Chair: Hideto Iwaoka (Kanazawa Inst. of Tech.)
17:50			

	Room13	Room14	Room15
10:30		3A14 <u>OS: Navigation, Guidance, and Control in Aerospace Systems (1)</u> Chairs: Tsutomu Ichikawa (Japan Aerospace Exploration Agency), Yoshimasa Ochi (National Defense Academy)	3A15 <u>OS: Advanced Systems for Safety of Industry</u> Chair: Akira Inoue (Okayama Univ.)
12:30			
13:30		3B14 <u>OS: Navigation, Guidance, and Control in Aerospace Systems (2)</u> Chairs: Tsutomu Ichikawa (Japan Aerospace Exploration Agency), Yoshimasa Ochi (National Defense Academy)	3B15 <u>OS: Vehicle Routing and Scheduling</u> Chairs: Shunji Tanaka (Kyoto Univ.), Kazutoshi Sakakibara (Ritsumeikan Univ.)
15:10			
15:30		3C14 <u>OS: Navigation, Guidance, and Control in Aerospace Systems (3)</u> Chairs: Tsutomu Ichikawa (Japan Aerospace Exploration Agency), Yoshimasa Ochi (National Defense Academy)	3C15 <u>OS: Supporting Technology for High Quality of Life</u> Chair: Hiroshi Hashimoto (Tokyo Univ. of Tech.)
17:50			

17:50 - 19:30 Closing Session - Farewell Party / University Hall (Reception Room)

Room4	Room5	Room6
<p>3A04</p> <p><u>OS: Robust Robot Vision</u> Chairs: Yoshinori Kuno (Saitama Univ.), In So Kweon (KAIST)</p>	<p>3A05</p> <p><u>Image Processing (1)</u> Chair: Kozo Ohtani (Hiroshima Inst. of Tech.)</p>	<p>3A06</p> <p><u>Emergent Technologies</u> Chair: Jae Weon Choi (Pusan National Univ.)</p>
<p>3B04</p> <p><u>OS: Driver Intent Inference</u> Chair: Makoto Itoh (Univ. of Tsukuba)</p>	<p>3B05</p> <p><u>Temperature Measurement</u> Chair: Shinji Ohyama (Tokyo Inst. of Tech.)</p>	<p>3B06</p> <p><u>Automation & Estimation</u> Chair: Hiroaki Kosaka (Nara Institute of Sci. and Tech.)</p>
<p>3C04</p> <p><u>OS: Image Processing and Pattern Recognitions</u> Chairs: Minoru Fukumi (Univ. of Tokushima), Yasue Mitsukura (Tokyo Univ. of Agriculture and Tech.)</p>	<p>3C05</p> <p><u>Image Processing (2)</u> Chair: Zhong Zhang (Toyohashi Univ. of Tech.)</p>	<p>3C06</p> <p><u>OS: FLUCOME-J SICE 2007</u> Chair: Kazushi Sanada (Yokohama National Univ.)</p>

Room10	Room11	Room12
<p>3A10</p> <p><u>OS: Adaptive Locomotion Control under Unstructured Environments</u> Chair: Katsuyoshi Tsujita (Osaka Inst. of Tech.)</p>	<p>3A11</p> <p><u>Mechanical Systems Control (3)</u> Chairs: Akira Shimada (Polytechnic Univ.), Kajiro Watanabe (Hosei Univ.)</p>	<p>3A12</p> <p><u>Multivariable Control</u> Chairs: Shinji Hara (Univ. of Tokyo), Yasumasa Fujisaki (Kobe Univ.)</p>
<p>3B10</p> <p><u>Modeling, System Identification and Estimation (2)</u> Chairs: Yoshito Ohta (Kyoto Univ.), Masuhiro Nitta (Tokyo Univ. of Science)</p>	<p>3B11</p> <p><u>Adaptive Control (3)</u> Chairs: Koichi Hidaka (Tokyo Denki Univ.), Hiromitsu Ohmori (Keio Univ.)</p>	<p>3B12</p> <p><u>Intelligent Control (2)</u> Chairs: Seiji Yasunobu (Univ. of Tsukuba), Tomohisa Hayakawa (Tokyo Inst. of Tech.)</p>
<p>3C10</p> <p><u>Modeling, System Identification and Estimation (3)</u> Chairs: Jun Zhou (Kyoto Univ.), Masanobu Koga (Kyushu Inst. of Tech.)</p>	<p>3C11</p> <p><u>Mechanical Systems Control (4)</u> Chairs: Takeshi Mizuno(Saitama Univ.), Yasushi Iwatani (Tohoku Univ.)</p>	

Room16	Room17	Poster Room
<p>3A16</p> <p><u>Human Interface(4)</u> Chairs: Seiichiro Katsura (Nagaoka Univ. of Tech.), Hironao Yamada (Gifu Univ.)</p>	<p>3A17</p> <p><u>Robot Control(4)</u> Chair: Takahiro Wada (Kagawa Univ.)</p>	<p>10:30 - 16:00</p> <p><u>Poster Session:</u> <u>Activities of SICE Technical and Research Committees</u></p>
<p>3B16</p> <p><u>Robot Design (1)</u> Chair: Ken'ichi Yano (Gifu Univ.)</p>		
<p>3C16</p> <p><u>Robot Design (2)</u> Chair: Teruji Sekozawa (Kanagawa Univ.)</p>		