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Introduction

Introduction









Published Papers

A. Mechanical System Engineering

- | | | |
|--|---|---|
| A Effect of acoustic cavitation on ease of infiltration of molten aluminum alloys into carbon fiber using ultrasonic infiltration method | T. Matsunaga
K. Ogata
T. Hatayama
K. Shinozaki
M. Yoshida | Composites Part A, (2007)
pp. 771-778 |
| A Wettability of basal and prismatic plane of graphite by molten aluminum - magnesium alloy | M. Yoshida
T. Matsunaga
K. Ogata
T. Hatayama
K. Shinozaki | Material Science Forum, (2007) |
| A DEVELOPMENT OF AL/CU DISSIMILAR BRAZING JOINT CONTROLLED FORM OF INTERMETALLIC COMPOUND | K. Shinozaki
K. Koyama | Material Science Forum, (2007)
pp. 4075-4080 |
| A Cracking and Local Melting in Mg-alloy and Al-alloy during Friction Stir Spot Welding | M. Yamamoto
A. Gerlich
T.H. North
K. Shinozaki | Proceedings of the 60th Annual Assembly of International Institute of Welding (IIW), IIW-III-1429-07, (2007) |
| A Development of Ultra-High-Speed GTA Welding Process Using Pulse-Heated Hot-Wire | M. Yamamoto
K. Shinozaki
T. Myoga
T. Kanazawa
H. Arashin | Proceedings of the 60th Annual Assembly of International Institute of Welding (IIW), IIW-XII-1927-07, (2007) |
| A Cracking in the stir zones of Mg alloy friction stir spot welds | M. Yamamoto
A. Gerlich
T.H. North
K. Shinozaki | Journal of Materials Science, (2007)
pp. 7657-7666 |
| A Mechanism of cracking in AZ91 friction stir spot welds | M. Yamamoto
A. Gerlich
T.H. North
K. Shinozaki | Science and Technology of Welding and Joining, (2007)
pp. 208-216 |
| A Formation and retention of local melted films in AZ91 friction stir spot welds | P. Su
A. Gerlich
M. Yamamoto
T.H. North | Journal of Materials Science, (2007)
pp. 9954-9965 |
| A Effect of welding parameters on the strain rate and microstructure of friction stir spot welded 2024 aluminum alloy | A. Gerlich
P. Su
M. Yamamoto
T.H. North | Journal of Materials Science, (2007)
pp. 5589-5601 |
| A Strain Rates and Grain Growth in Al 5754 and Al 6061 Friction Stir Spot Welds | A. Gerlich
M. Yamamoto
T.H. North | Metallurgical and Materials Transactions A, (2007)
pp. 1291-1302 |
| A Eutectic Segregation and Cracking in AZ91 Friction Stir Spot Welds | M. Yamamoto
P. Su
A. Gerlich
T.H. North | SAE Technical Series, SAE-2007-01-1700, (2007) |
| A Local melting and cracking in Al 7075-T6 and Al 2024-T3 friction stir spot welds | A. Gerlich
M. Yamamoto
T.H. North | Science and Technology of Welding and Joining, (2007)
pp. 472-480 |
| A Cracking in Mg-alloy Friction Stir Spot Welding | M. Yamamoto
A. Gerlich
T.H. North
K. Shinozaki | Proceedings of UIIW (University-Industry International Workshop) - Frontiers of Science & Technology of Welding- (Nantes, France), (2007) |

A	A o N	o n No Y
A Liquid Penetration Induced Cracking in Mg-alloy Spot Welds	M. Yamamoto A. Gerlich T.H. North K. Shinozaki	Abstract Book of International Welding Joining Conference-Korea 2007, (2007) pp. 242-243
A Development of Evaluation Method for Solidification Cracking Susceptibility of Inconel600/SUS347 Dissimilar Laser Weld Metal by In-situ Observation	K. Shinozaki M. Yamamoto A. Kawasaki T. Tamura P. Wen	Abstract Book of International Welding Joining Conference-Korea 2007, (2007) pp. 20-21
A Impact and hot corrosion properties of levitation-melted NiAl polycrystals with different purity	Kazuhiro Matsugi Gen Sasaki Osamu Yanagisawa	Materials Transactions, 2 (2007) pp. 195-204
A Effects of Ca addition on solidification structure of Cu-Sn-Zn bronze castings	Kazuhiro Matsugi Takayuki Hino Gen Sasaki Osamu Yanagisawa Minoru Kidani	Materials Transactions, 4 (2007) pp. 799-806
A Preparation of Ti matrix composites of Ti-B-C-N systems by spark sintering and their friction and wear characteristics	Kazuhiro Matsugi Gen Sasaki Osamu Yanagisawa Dongchun Li Hideaki Kuramoto Takashi Oki	Materials Transactions, 5 (2007) pp. 1042-1049
A Electrical and thermal characteristics of Pb-Free Sn-Zn alloys for an AC-Low voltage fuse element	Kazuhiro Matsugi Gen Sasaki Osamu Yanagisawa Yasuo Kumagai Koji Fujii	Materials Transactions, 5 (2007) pp. 1105-1112
A Surface treatment of Al18B4O33 whisker and development of Al18B4O33/ZK60 magnesium alloy matrix composite	Gen Sasaki Wenguang Wang Yusuke Hasegawa Yong Bum Choi Nobuyuki Fuyama Kazuhiro Matsugi Osamu Yanagisawa	J. Materials Processing Technology, 6 (2007) pp. 429-432
A Influence of preform preparation con-		

- A Effect of Aging Behavior on Mechanical Properties of AZ91D/ Al18B4O33 Whisker Composites Fabricated by Squeeze Casting
Kouji Maruo
Wen Guang Wang
Nobuyuki Fuyama
Kazuhiro Matsugi
Gen Sasaki
CD-ROM Proc. of ICCM-16, (2007)
pp. FrJM1-07ge_maruok224374p
- A Effect of electrical potential to aluminum coated ionic conductor glass on interfacial phenomena
Akihisa Fujita
Kazuhiro Matsugi
Gen Sasaki
Proc. of Japan International SAMPE Symposium & Exhibition, (2007)
pp. MCCCHA_2_2
- A Infiltration Behavior of Molten Aluminum Alloy to Porous Preform by Low Pressure
Gen Sasaki
Takashi Yamanaka
Yongbum Choi
Kazuhiro Matsugi
Proc. of Japan International SAMPE Symposium & Exhibition, (2007)
pp. MCCCHA_2_3
- A Compaction of ultra-fine WC powder by high-speed centrifugal compaction process
Hiroyuki Y. Suzuki
Y. Kadono
H. Kuroki
Mater. Sci. Forum, (2007)
pp. 249-252
- A Flow pattern in green bodies made by high-speed centrifugal compaction process
Hiroyuki Y. Suzuki
K. Urabe
T. Takano
H. Kuroki
Mater. Sci. Forum, (2007)
pp. 285-288
- A Coarse Columnar Structure of Transformation-grown Ferrite and Very Low Carbon Content in Pure Iron of Armco Type
Hidenori Kuroki
Hiroyuki Y. Suzuki
Steel Research int., (2007)
pp. 572-573
- A Effect of Spatial Distribution of SiC Particles on the Tensile Deformation Behavior of Al-10 vol%SiC Composites
Di Zhang
Kenjiro Sugio
Kazuyuki Sakai
Hiroshi Fukushima
Osamu Yanagisawa
Materials Transactions, (2007)
pp. 171-177
- A Evaluating Spatial Distribution Randomness of Overlap Permissive Second Phase in Three- and Two-dimensions
Kenjiro Sugio
Yasutaka Momota
Di Zhang
Hiroshi Fukushima
Osamu Yanagisawa
Materials Transactions, (2007)
pp. 2762-2767
- A Statistical Relationship between Three- and Two-Dimensional Spatial Distribution of Dispersed Phase
Kenjiro Sugio
Yasutaka Momota
Di Zhang
Hiroshi Fukushima
Osamu Yanagisawa
Materials Transactions, (2007)
pp. 2768-2777
- A Determination of the ν_e and total ^8B solar neutrino fluxes with the Sudbury Neutrino Observatory Phase I data set
B. Aharmim
Ryuta Hazama
et al.
Physical Review, C, 75 (2007)
pp. 045502-1-045502-69
- A An array of low-background ^3He proportional counters for the Sudbury Neutrino Observatory
J. F. Amsbaugh
Ryuta Hazama
et al.
Nuclear Instruments and Methods in Physics Research, A, 579 (2007)
pp. 1054-1080
- A Multilayer Scintillator Responses for Mo Observatory of Neutrino Experiment Studied Using a Prototype Detector MOON-1
H. Nakamura
Ryuta Hazama
et al.
Journal of the Physical Society of Japan, (2007)
pp. 114201-1-114201-9
- A Toward a multilateral linkage by "INTENG" network system
Ryuta Hazama
Yasuhide Ito
Proceedings of 2007 JSEE Annual Conference, (2007)
pp. 72-75
- A Selective Synthesis of Single-walled Carbon Nanotubes by Blending Catalysts
Shuhei Inoue
Takeshi Nakajima
Kazuya Nomura
Yoshihiro Kikuchi
Proc. of ASME-JSME Thermal Engineering Summer Heat Transfer Conference, (2007)
- A Influence of the Catalyst Supporters upon the Catalyst Nano Particle for Synthesizing Single-walled Carbon Nanotubes
Shuhei Inoue
Kazuya Nomura
Yukihiko Matsumura
Proc. European Nano System 2007, (2007)
pp. 33-37
- A Homogeneous-Dilution Model of Partially Fueled Simplified Pulse Detonation Engines
Takuma Endo
Tomoaki Yatsufusa
Shiro Taki
Akiko Matsuo
Kazuaki Inaba
Jiro Kasahara
Journal of Propulsion and Power, (2007)
pp. 1033-1041

A	A o N	o n No Y
<p> Experiments on Water-Cooled Single-Tube Pulse Detonation Turbine Engine</p>	<p>Takuma Endo Takeshi Ofuka Akira Ochi Naoya Takaki Shintaro Onishi Tomoaki Yatsufusa Shiro Taki Seigo Kurachi Yoshito Umeda</p>	<p>Proceedings of the 6th Asia-Pacific Conference on Combustion, (2007) pp. 577-580</p>
<p> Detonation Initiation in Tube by Coaxial Predetonator</p>	<p>Hirokazu Nishimura Takuya Matsumura Yutaka Koga Tomoaki Yatsufusa Takuma Endo Shiro Taki</p>	<p>Proceedings of the 21st International Colloquium on the Dynamics of Explosions and Reactive Systems, (2007)</p>
<p> Generation of Quasi-Planar Laser-Driven Detonations</p>	<p>Takuma Endo Tomoaki Kitabatake Hiroyuki Shiraga Keisuke Shigemori</p>	<p>Proceedings of the 21st International Colloquium on the Dynamics of Explosions and Reactive Systems, (2007)</p>
<p> Multi-Cycle Experiments on Multi-Tube Pulse Detonation Engine</p>	<p>Hisato Muro Taro Hino Ryo Hamazoe Mio Takemoto Hironobu Yamazumi Tomoaki Yatsufusa Takuma Endo Shiro Taki</p>	<p>The 7th International Symposium on Special Topics in Chemical Propulsion, (2007)</p>
<p> Rapidly-Mixed Combustion in a Tubular Flame Burner</p>	<p>Satoru Ishizuka Tetuya Motodamari Daisuke Shimokuri</p>	<p>Proceedings of the Combustion Institute, (2007) pp. 1085-1092</p>
<p> The Effects of Rotation on the Characteristics of Premixed Propane/Air Swirling Tubular Flames</p>	<p>Yuyin Zhang Satoru Ishizuka Huayang Zhu Robert J. Kee</p>	<p>Proceedings of the Combustion Institute, (2007) pp. 1101-1107</p>
<p> Flow Field of Turbulent Premixed Combustion in a Cyclone-Jet Combustor</p>	<p>Kazuhiro Yamamoto Satoshi Inoue Hiroshi Yamashita Daisuke Shimokuri Satoru Ishizuka</p>	<p>Journal of Thermal Science and Technology, , 1 (2007) pp. 90-101</p>
<p>A Vapor Distribution Measurement of Higher and Lower Volatile Components in an Evaporating Fuel Spray via Laser Absorption Scattering (LAS) Technique</p>	<p>Yuyin Zhang Keiya Nishida</p>	<p>Combustion Science and Technology, -9(2007) pp. 863-881</p>
<p>A PIV Measurements on a 2-inch Tubular Flame Burner</p>	<p>Daisuke Shimokuri Yuyin Zhang Satoru Ishizuka</p>	<p>Proceedings of the Sixth Asia-Pacific Conference on Combustion, (2007) pp. 154-157</p>
<p>A Effect of Split Injection on Stratified Charge Formation of Direct Injection Spark Ignition Engines</p>	<p>Ti Li Keiya Nishida Yuhin Zhang Hiroyuki Hiroyasu</p>	<p>International Journal of Engine Research, , 2 (2007) pp. 205-219</p>
<p>A A Challenge to Vapor Distribution Measurement of Multi-Component Evaporating Fuel Spray via Laser Absorption-Scattering (LAS) Technique</p>	<p>Yuyin Zhang Yoshinobu Kotani Akira Yoshida Keiya Nishida</p>	<p>JSAE/SAE Paper, JSAE20077224/SAE2007-01-1892 (2007) pp. 1368-1378</p>
<p> Effects of Micro-Hole and Ultra-High Injection Pressure on Mixture Properties of D.I. Diesel Spray</p>	<p>Keiya Nishida Wu Zhang Tetsuya Manabe</p>	<p>JSAE/SAE Paper, JSAE20077100/SAE2007-01-1890 (2007) pp. 1353-1361</p>
<p>A Effects of Group-Hole Nozzle Specifications on Fuel Atomization and Evaporation of Direct Injection Diesel Sprays</p>	<p>Jian Gao Yuhei Matsumoto Keiya Nishida</p>	<p>JSAE/SAE Paper, JSAE20077021/SAE2007-01-1889 (2007) pp. 1340-1352</p>

<p>A Spray and Mixture Properties of Hole-Type Injector for D.I. Gasoline Engine -Comparison of Experiment and CFD Simulation-</p>	<p>Kiyotaka Sato Keiya Nishida Tadashi Tadokoro Masahisa Yamakawa Hideaki Yokohata</p>	<p>JSAE/SAE Paper, JSAE20077024/SAE2007-01-1850 (2007) pp. 1-8</p>
<p>A Group-Hole Nozzle Effects on Mixture Formation and In-Cylinder Combustion Processes in Direct-Injection Diesel Engines</p>	<p>Jian Gao Yuhei Matsumoto Makoto Namba Keiya Nishida</p>	<p>SAE Paper, No.2007-01-4050 (2007) pp. 1-20</p>
<p>A Mixture Formation and Combustion Processes of Multi-Hole Nozzle with Micro Orifices for D.I. Diesel Engines</p>	<p>Yuhei Matsumoto Jian Gao Makoto Namba Keiya Nishida</p>	<p>SAE Paper, 2007-01-4049 (2007) pp. 1-11</p>
<p>A Analysis of Evaporation Process of Wall-Impinging Gasoline Spray Using a Laser Absorption Scattering Technique for Non-Axisymmetric Spray</p>	<p>Kiyotaka Sato Keiya Nishida Tadashi Tadokoro Jian Gao Seoksu Moon</p>	<p>Proceedings of the 11th Annual Conference on Liquid Atomization and Spray Systems-Asia, ILASS-Asia 2007, (2007) pp. 56-63</p>
<p>A Enhancement of Double Auger Decay Probability in Xenon Clusters Irradiated with a Soft X-ray Laser pulse</p>	<p>S. Namba N. Hasegawa M. Nishikino T. Kawachi M. Kishimoto K. Sukegawa M. Tanaka Y. Ochi K. Takiyama K. Nagashima</p>	<p>Physical Review Letters, 99(2007) pp. 043004</p>
<p>A Novel atmospheric pressure plasma device releasing atomic hydrogen: reduction of microbial-contaminants and OH radicals in the air</p>	<p>H. Nojima R. Park J. Kwon I. Suh J. Jeon E. Ha H. On H. Kim K. Choi K. Lee B. Seong H. Jung S. Kang S. Namba K. Takiyama</p>	<p>Journal of Physics D: Appl. Phys., 40(2007) pp. 501</p>

	A o N ~	o n /, /, No Y
A Radoactivity in atomic bomb samples from exposure to environmental neutrons	S. Endo K. Shizuma K. Tanaka M. Ishikawa W. Ruhm S.D. Egbert	Health Phys, 9, 6 (2007) pp. 689-695
A Microdosimetric evaluation of secondary neutrons in a phantom produced by a 290 MeV/nucleon carbon beam at HIMAC	S. Endo K. Tanaka M. Takada Y. Onizuma N. Miyahara T. Sato K. Shizuma	Medical Phys. 34(9)(2007), 9 (2007) pp. 3571-3578
A Microdosimetric evaluation of secondary particles in a phantom produced by carbon 290 MeV/nucleon ions at HIMAC	S. Endo M. Takada Y. Onizuka K. Tanaka N. Maeda M. Ishikawa K. Shizuma	J. Radiat. Res., 9 (2007) pp. 397-406
A 9 A Three-dimensional Finite Element Stress Analysis and Strength Evaluation of Stepped-lap Adhesive Joints Subjected to Static and Impact Tensile Loadings	Yuichiro Shin Kohei Ichikawa Toshiyuki115 0 T	

A, FEM Stress Analysis and Strength of Scarf Adhesive Joints of Dissimilar Adherend Subjected to Impact Tensile Loadings	Toshiyuki SAWA Yuya HIRAYAMA	Proceedings of 2007 The 3rd China International Bonding (CIB'03) & the 2nd Asian Conference on Adhesion (ACA'02), (2007)
A, A stress analysis and strength of scarf adhesive joints subjected to static bending moments	He DAN Toshiyuki SAWA	Proceedings of 2007 The 3rd China International Bonding (CIB'03) & the 2nd Asian Conference on Adhesion (ACA'02), (2007)
A, FEM Stress Analysis and Strength of Scarf Adhesive Joints of Similar Adherend Subjected to Impact Tensile Loadings	Yuya HIRAYAMA Toshiyuki Sawa He Dan	Proceedings of 2007 ASME International Mechanical Engineering Congress & Exposition, (2007)
A, Stress Analysis and Strength of Scarf Adhesive Joints of Dissimilar Adherends Subjected to Static Bending Moments	Atsushi KARAMI Toshiyuki Sawa	Proceedings of 2007 ASME International Mechanical Engineering Congress & Exposition, (2007)
A, A numerical investigation of Interface dynamics during martensitic transformation in a shape memory alloy using the level-set method, Key Engineering Materials	Takeshi IWAMOTO Mohammed CHERKAOUI Esteban P. BUSO	Key Engineering Materials, (2007) pp. 1199-1204
A, THE FE-BASED LEVEL-SET METHOD WITH VARIATIONAL APPROACH INTRODUCING PENALTY METHOD TO REMOVE RE-INITIALIZATION PROCESS	Takeshi IWAMOTO Mohammed CHERKAOUI Esteban P. BUSO	Proceedings of Plasticity 2007, (2007)
A, Experimental Study on Frictional Vibration in Bering Case of Centrifugal Fan	Takeo Fujii Noritoshi Nakagawa	Journal of System Design and Dynamics, 3 (2007) pp. 638-647
A, Observation of Multibubble Phenomena	318061 0 Tdamic3	

A	A o N	o n / No Y
A ⁹ Wear of Involute-cycloid Composite Tooth Profile Gear	Natsuhiko Seyama Kazuteru Nagamura Kiyotaka Ikejo Eiichirou Tanaka Masatoshi Yoshikawa	Proceeding of JSME-KSME Joint International Conference on Manufacturing, Machine Design and Tribology ICMdT2007, (2007)
A ⁹ Driving Performance and Strength of Pin-Rack Gear Mechanism using a Trochoid Tooth Profile	Kiyotaka Ikejo Kazuteru Nagamura Eiichirou Tanaka Koji Yamamoto	Proceedings of the ASME 2007 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference IDETC/CIE 2007, (2007)
A ⁹ Driving Performance of High Reduction Planetary Gear Drive with Meshing of Arc Tooth Profile Gear	Kazuteru Nagamura Kiyotaka Ikejo Eiichirou Tanaka Takamasa Hirai Toshiyuki Koumori Ichiro Kamimura	Proceedings of the ASME 2007 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference IDETC/CIE 2007, (2007)
A ⁹⁹ Study on the Walking Support Machine Indoors by Assisting Whole Legs	Eiichirou Tanaka Tadaaki Ikehara Kazuteru Nagamura Kiyotaka Ikejo Takeshi Sakamoto Yusuke Inoue Shozo Saegusa	Proceedings of the ASME 2007 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference IDETC/CIE 2007, (2007)
A Turbulent Hierarchic Structures and Scalar Mixing in a Supersonic Mixing Layer at High Convective Mach Numbers	Hiroshi Maekawa Daisuke Watanabe	Proc. of ASME-JSME Thermal Engineering Summer Heat Transfer Conference, Vancouver, Canada, (2007)
A Direct numerical simulation of a spatially evolving supersonic transitional/turbulent boundary layer	Hiroshi Maekawa Daisuke Watanabe Hajime Takami Kougen Ozaki	Proc. of 5nd International Symposium on Turbulence and Shear Flow Phenomena (TSFP-5), (2007) pp. 301-306
A An accurate scheme for electromagnetics with CIP-Method of characteristics	Yoichi Ogata Takashi Yabe	Proc. of The 4th Japan-Taiwan Workshop on Mechanical and Aerospace Engineering, (2007) pp. 388-393
A Computations for Various Knudsen Numbers Flow with Soroban-grid CIP Method	Yoichi Ogata Takashi Yabe	Proc. of APCOM'07 in conjunction with EPMESC XI, (2007)
A MBEANN: Mutation-Based Evolving Artificial Neural Networks	Kazuhiro Ohkura Toshiyuki Yasuda Yuichi Kawamatsu Yoshiyuki Matsumura Kanji Ueda	Advances in Artificial Life, the 9th European Conference on Artificial Life, Lecture Notes in Artificial Intelligence, (2007) pp. 936-945
A Improving Search Efficiency in the Action Space of an Instance-Based Reinforcement Learning	Toshiyuki Yasuda Kazuhiro Ohkura	Advances in Artificial Life, the 9th European Conference on Artificial Life, Lecture Notes in Artificial Intelligence, (2007) pp. 325-334
A Coordinating Collective Behavior in a Multi-Robot System using Evolving Artificial Neural Networks	Masanori Goka Kazuhiro Ohkura Kanji Ueda	1th Asia-Pacific Workshop on Intelligent and Evolutionary Systems, (2007)
A Grid Task Scheduling Algorithm R3Q for Evolution Strategies	Yoshiyuki Matsumura Kazuhiro Ohkura Yoshiki Matsuura Masashi Oiso Noriyuki Fujimoto Kenichi Hagihara	IEEE Congress on Evolutionary Computation, (2007) pp. 1756-1763
A Job Shop Scheduling with Capacity Adjustment	Toru Eguchi Mitsunobu Yoda Takeshi Murayama Fuminori Oba	Proceedings of the 4th International Conference on Leading Edge Manufacturing in 21st Century, (2007)
A Analysis of positive invariance and almost regional attraction via density functions with converse results	Izumi Masubuchi	IEEE Transactions on Automatic Control, (2007) pp. 1329-1333

	A o N	o n No Y
A Output feedback controller synthesis for descriptor systems satisfying closed-loop dissipativity	Izumi Masubuchi	Automatica, 2 (2007) pp. 339-345
A A change-of-variables method for output feedback synthesis of descriptor systems based on realization-independent LMIs	Izumi Masubuchi	Transactions of SICE, 12 (2007) pp. 1151-1155
A Fault detection and isolation method for injection unit with reaction force sensor	Kiyoshi Ichi Masami Saeki	Proceedings of International Conference on Mechatronics, (2007) pp. 1-6
A Design of multivariable H_{∞} PID controller using frequency response	Masami Saeki Katsufumi Kashiwagi Nobutaka Wada	16th IEEE International Conference on Control Applications, (2007) pp. 1565-1570
A Properties of stabilizing PID gain set in parameter space	Masami Saeki	IEEE Transactions on Automatic Control, 9 (2007) pp. 1710-1715
A Path-following Control of a Mobile Robot in the Presence of Actuator Constraints	Nobutaka Wada Shingo Tagami Masami Saeki	Advanced Robotics, 5-6 (2007) pp. 645-659
A A Scheduling Algorithm for Constrained Control Systems: An Approach Based on a Parameter Dependent Lyapunov Function	Nobutaka Wada Masami Saeki	Proc. of American Control Conference, (2007)
A Output Regulation in the Presence of Actuator Constraints: A Gain-Scheduled Control Approach	Nobutaka Wada Yoshiya Matsuo Masami Saeki	Proc. of IEEE International Conference on Mechatronics, (2007)
A Machinability of BN free machining steel in turning	Ryutarō Tanaka Yasuo Yamane Katsuhiko Sekiya Norihiro Narutaki Tetsuo Shiraga	Int. J. of Machine Tools and Manufacture, 12 (2007) pp. 1971-1977
A Effect of Strain Rate and Temperature on Yield Locus for AZ31 Magnesium Alloy Sheet	Tetsuo Naka Masanori Hayakashi Yasuhide Nakayama Takeshi Uemori Masahide Kohzu Kenji Higashi Fusahito Yoshida	Key Engineering Materials, (2007) pp. 119-124
A Plasticity Characteristics of Beta Titanium Alloy Obtained using Depth-sensing Nano-indentation Test	Xiaoteng Wang Fusahito Yoshida Hongyuan Fang	Key Engineering Materials Vols, (2007) pp. 571-576
A Reduction of Stages in Multi-Stage Metal Forming Process Based on Numerical Optimization in Conjunction with FE Simulation	Ryutarō Hino Akihiko Sasaki Fusahito Yoshida Vassili V. Toropov	Key Engineering Materials, (2007) pp. 767-772
A Modeling of Large-Strain Cyclic Plasticity for Accurate Springback Simulation	F. Yoshida T. Uemori S. Abe	Key Engineering Materials, (2007) pp. 811-816
A Plastic Deformation Behavior of High Strength Steel Sheet under Non-proportional Loading and Its Modeling	T. Uemori T. Kuramitsu R. Hino T. Naka F. Yoshida	Key Engineering Materials, (2007) pp. 895-900
A Effects of Loading Speed and Shear Prestrain on Adhesive Fatigue Strength in Single-Lap Joint	Michihiro Takiguchi Fusahito Yoshida	Key Engineering Materials, (2007) pp. 1479-1484
A Viscoplastic Behavior of Acrylic Adhesive in Butt-Joint at Various Temperatures under Complex Loading : Experimentation and Modelling	Tetsuya Yoshida Takayuki Oishi Michihiro Takiguchi Fusahito Yoshida	Key Engineering Materials, (2007) pp. 1485-1490
A In Situ AFM Observation of Mechanical Behavior of Beta Titanium Alloy in Nano-Indentation Test	X.T. Wang H.Y. Fang F. Yoshida	Materials Science Forum, (2007) pp. 1389-1392

A	A o N	o n / No Y
A Effect of Texture of AZ31 Magnesium A1loy Sheet on Mechanical Properties and Formability at High Strain Rate	Masahide Kohzu Tomoya Hironaka Shota Nakatsuka Naobumi Saito Fusahito Yoshida Tetsuo Naka Haruo Okahara Kenji Higashi	Materials Transactions, 4 (2007) pp. 764-768
A Stochastic Optimization of Tension Leveling Process for Production of Flat Metallic Strips	Hiroshi Hamasaki Ryutaro Hino Fusahito Yoshida Vassili V. Toropov	Proceedings of the 7th World Congress on Structural and Multidisciplinary Optimization (WC-SMO7), CD-ROM, (2007)
A Reduction of Number of Forming Stages in Multi-Stage Metal Forming Processes Using Numerical Optimization and FE Simulation	Ryutaro Hino Akihiko Sasaki Fusahito Yoshida Vassili V. Toropov	Proceedings of the 7th World Congress on Structural and Multidisciplinary Optimization (WC-SMO7), CD-ROM, (2007)
A High-speed optimization of tension leveling conditions	M. Shigaki R. Hino H. Hamasaki V.V. Toropov F. Yoshida	International Conference on Computational Methods (ICCM2007), CD-ROM, (2007)
A Springback simulation for V-bending of clad sheet metals	R. Hino K. Yilamu F. Yoshida	International Conference on Computational Methods (ICCM2007), CD-ROM, (2007)
A Effects of strain rate, temperature and sheet thickness on yield locus of AZ31 magnesium alloy sheet	T. Naka T. Uemori R. Hino M. Kohzu K. Higashi F. Yoshida	Proceedings of the 10th Advances in Materials and Processing Technologies (AMPT2007), (2007) pp. 125
A Investigation of small crack behavior under cyclic loading in a dual phase steel with FIB tomography technique	Y. Motoyashiki A. Bruckner-foit A. Sugeta	Fatigue & Fracture of Engineering Materials and Structures, 6 (2007) pp. 556-564
A In-situ atomic force microscopy and crystallographic orientation analysis of small fatigue crack de ection behavior	A. Sugeta Y. Uematsu	Key Engineering, Materials, (2007) pp. 227-230
A Measurement of Delamination Strength of Thermal Barrier Coating at High Temperature by Edge-Indent Test	K.Nakasa M.Kato B.Zhang N.Akitake	Key Engineering Materials, (2007) pp. 1290-1293
A Wear and Delamination Behavior of SiC Thin Film under Repeated Sliding Load	K.Nakasa M.Kato J.Zheng	Key Engineering Materials, (2007) pp. 669-672

B. Artificial Complex Systems Engineering

B	A o N	o n / No Y
B An application of particle swarm optimization to bilevel facility location problems with quality of facilities	Takeshi Uno Hideki Katagiri Kosuke Kato	Asia Pacific Management Review, 4 (2007) pp. 183-189
B Particle swarm optimization for jump height maximization of a serial link robot	Takeshi Matsui Masatoshi Sakawa Takeshi Uno Kosuke Kato Mitsuru Higashimori Makoto Kaneko	Journal of Advanced Computational Intelligence and Intelligent Informatics, 8 (2007) pp. 956-963

	A zaron	on No Y
B A Fuzzy Model for the Multiobjective Emergency Facility Location Problem with A-distance	Takeshi Uno Hideki Katagiri Kosuke Kato	The Open Cybernetics and Systems Journal, (2007) pp. 21-27
B Particle Swarm Optimization Based Heuristics for Nonlinear Programming Problems	Takeshi Matsui Kosuke Kato Masatoshi Sakawa Takeshi Uno Kenji Morihara	International MultiConference of Engineering and Computer Scientists 2007, (2007) pp. 2312-2317
B An interactive fuzzy satisfying method through particle swarm optimization for multiobjective nonlinear programming problems	Takeshi Matsui Masatoshi Sakawa Kosuke Kato Takeshi Uno Koichi Tamada	Proceedings of the 2007 IEEE Symposium on Computational Intelligence in Multicriteria Decision Making, C. M (2007) pp. 71-76
B An application of interactive fuzzy satisfying approach with particle swarm optimization for multiobjective emergency facility location problem with A-distance	Takeshi Uno Kosuke Kato Hideki Katagiri	Proceedings of the 2007 IEEE Symposium on Computational Intelligence in Multicriteria Decision Making, C. M (2007) pp. 368-373
B An interactive fuzzy satisfying method through particle swarm optimization with Pareto based approaches to multiobjective nonlinear programming problems	Takeshi Matsui Masatoshi Sakawa Kosuke Kato Takeshi Uno Koichi Tamada	Proceedings of 10th Czech-Japan Seminar on Data Analysis and Decision Making under Uncertainty, (2007) pp. 87-96
B A tabu search based on a Strategic vibration for a facility location problem with a customer's preference in a competitive environment	Takeshi Uno Kosuke Kato Hideki Katagiri	Proceedings of 13th Asia Pacific Management Conference, (2007) pp. 1417-1421
B A location of competitive facilities in the plane including cooperative facilities	Takeshi Uno Hideki Katagiri	Proceedings of IEEE SMC Hiroshima Chapter 3rd International Workshop on Computational Intelligence & Applications, (2007) pp. P3-1-P3-6
B A discrete-time approximation technique for the time-cost trade-off in PERT networks	Amir Azaron Masatoshi Sakawa Reza Tavakkoli-Moghaddam Nima Safaei	RAIRO - Operations Research, 1 (2007) pp. 61-81
B A goal programming model for multiobjective facility location problems in a competitive environment	Takeshi Uno Kosuke Kato Hideki Katagiri	Scientiae Mathematicae Japonicae, 3 (2007) pp. 349-358
B Interactive fuzzy programming based on a probability maximization model using genetic algorithms for two-level integer programming problems involving random variable coefficients	Kosuke Kato Masatoshi Sakawa	Proceedings of 2007 IEEE Symposium on Computational Intelligence in Multicriteria Decision Making, (2007) pp. 77-84
B Effect of random errors on statistical behavior of discretized dynamical system	Itaru Hataue Yasumasa Saisho	Information, 1 (2007) pp. 5-14
B A stochastic model describing the number of male insects which are left without partners	Yasumasa Saisho	Ecological Modelling, (2007) pp. 155-158
B Nondominated equilibrium solutions of a multiobjective two-person nonzero-sum game and corresponding mathematical programming problem	Ichiro Nishizaki Takuma Notsu	Journal of Optimization Theory and Applications, 2 (2007) pp. 217-239
B A general framework of agent-based simulation for analyzing behavior of players in games	Ichiro Nishizaki	Journal of Telecommunications and Information Technology, 4 (2007) pp. 28-35
B Artificial adaptive agent model characterized by learning and fairness in the ultimatum games	Tomohiro Hayashida Ichiro Nishizaki Hideki Katagiri	Journal of Telecommunications and Information Technology, 4 (2007) pp. 36-44

Title	Author(s)	Journal/Conference
B Development of interactive support systems for multiobjective decision analysis under uncertainty: MIDASS	Fumiko Seo Ichiro Nishizaki Hidenobu Hamamoto	Kyoto Institute of Economic Research, Discussion paper, (2007) pp. 1-79
B A multi-objective lead time control problem in multi-stage assembly systems using genetic algorithms	Cahit Perkgoz Amir Azaron Hideki Katagiri Kosuke Kato Masatoshi Sakawa	European Journal of Operational Research, , 1 (2007) pp. 292-308
B Remarks on the application of genetic algorithm and tabu search method to nonlinear spanning tree problems	Ei Bekkaye Mermri Hideki Katagiri Masatoshi Sakawa Kosuke Kato	Applied Mathematics and Computation, , 2 (2007) pp. 1071-1086
B Time-cost trade-off via optimal control theory in Markov PERT networks	Amir Azaron Hideki Katagiri Masatoshi Sakawa	Annals of Operations Research, , 1 (2007) pp. 47-64
B A multi-objective discrete reliability optimization problem for dissimilar-unit standby systems	Amir Azaron Hideki Katagiri Kosuke Kato Masatoshi Sakawa	OR Spectrum, , 2 (2007) pp. 235-257
B Stackelberg solutions to stochastic two-level linear programming problems	Hideki Katagiri Ichiro Nishizaki Masatoshi Sakawa Kosuke Kato	Proceedings of the 2007 IEEE Symposium on Computational Intelligence in Multicriteria Decision Making, (2007) pp. 240-244
B Interactive fuzzy random programming for two-level linear programming problems with fuzzy random variable coefficients	Hideki Katagiri Masatoshi Sakawa Kosuke Kato Ichiro Nishizaki	Proceedings of the 13th Asia Pacific Management Conference, (2007) pp. 495-501
B Interactive two-level fuzzy random programming under cooperative environments	Hideki Katagiri Masatoshi Sakawa Kosuke Kato Ichiro Nishizaki	Proceedings of 3rd International Workshop on Computational Intelligence & Applications, (2007) pp. 1-2
B Simple but efficient antenna selection for MISO-OFDM systems	Shuichi Ohno Kenichi Yamaguchi Kok Ann Donny Teo	IEICE Transactions on Fundamentals, , A, 8 (2007) pp. 1594-1600
B Universal BER performance ordering of MIMO systems over flat channels	Shuichi Ohno Kok Ann Donny Teo	IEEE Transactions on Wireless Communications, , 10 (2007) pp. 3678-3687
B Finite parameter model for doubly-selective channel estimation in OFDM	Kok Ann Donny Teo Shuichi Ohno	IEICE Transactions on Fundamentals, , A, 11 (2007) pp. 2395-2403
B Preamble and pilot symbol design for Channel Estimation in OFDM	Shuichi Ohno	Proc. of IEEE Intl. Conf. on Acoustics, Speech and Signal Processing, 3 (2007) pp. 281-284
B Comparing kanban control with the theory of constraints using Markov chains	Katsuhiko Takahashi Katsumi Morikawa Ying-Chuan Chen	International Journal of Production Research, , 16 (2007) pp. 3599-3617
B Inventory control for a MARKOVIAN remanufacturing system with stochastic decomposition process	Katsuhiko Takahashi Katsumi Morikawa Myreshka Daisuke Takeda Akihiko Mizuno	International Journal of Production Economics, , 1-2 (2007) pp. 416-425
B Production Policies in Recycling Systems with Stock Capacity Constraints	Yusuaki Doi Akihiko Mizuno Daisuke Hirotsu Katsumi Morikawa Katsumiko Takahashi	Proceeding of the 5th International Symposium on Environmentally Conscious Design and Inverse Manufacturing, (2007)

	Author(s)	Journal/Conference
B A multi-agent system for stochastic assembly line balancing	Kana Yokoyama Katsumi Morikawa Katsuhiko Takahashi	Proceedings of the 8th Asia-Pacific Industrial Engineering & Management System and 2007 Chinese Institute of Industrial Engineers Conference, (2007)
B Satisfaction measure for order acceptance and rejection decision	Sujan Piya Katsumi Morikawa Katsuhiko Takahashi	Proceedings of the 8th Asia-Pacific Industrial Engineering & Management System and 2007 Chinese Institute of Industrial Engineers Conference, (2007)
B Integrating lean and agile strategies into the production control system for mixed-model production line	Katsuhiko Takahashi Kana Yokoyama Katsumi Morikawa	Proceedings of the International IFIP TC5, WG 5.7 Conference on Advances in Production Management Systems, (2007) pp. 405-412
B Analysis of the human role in planning and scheduling via system dynamics	Katsumi Morikawa Katsuhiko Takahashi	Proceedings of the International IFIP TC5, WG 5.7 Conference on Advances in Production Management Systems, (2007) pp. 297-304
B Integrating activity based costing and process simulation for strategic human planning	Takayuki Kataoka Akitoshi Kimura Katsumi Morikawa Katsuhiko Takahashi	Proceedings of the International IFIP TC5, WG 5.7 Conference on Advances in Production Management Systems, (2007) pp. 273-280
B Integrated approach for self-balancing production line with multiple parts	Daisuke Hirotsu Katsumi Morikawa Katsuhiko Takahashi	Proceedings of the International IFIP TC5, WG 5.7 Conference on Advances in Production Management Systems, (2007) pp. 171-178
B Asymptotic behavior of solutions to the perturbed simple pendulum problems with two parameters	Tetsutaro Shibata	Mathematische Nachrichten, (2007) pp. 451-462
B Global behavior of the branch of positive solutions for nonlinear Sturm-Liouville problems	Tetsutaro Shibata	Annali di Matematica Pura ed Applicata, (2007) pp. 525-537
B Asymptotic shape of solutions to the perturbed simple pendulum problems	Tetsutaro Shibata	Electronic Journal of Differential Equations, , 64 (2007) pp. 1-11
B Inverse spectral problems for nonlinear Sturm-Liouville problems	Tetsutaro Shibata	Electronic Journal of Differential Equations, , 74 (2007) pp. 1-10
B Asymptotic behavior of L^q -norm of solutions to elliptic eigenvalue problems arising in population dynamics	Tetsutaro Shibata	Proceedings of the Royal Society of Edinburgh, A (2007) pp. 1081-1090
B An Economic Evaluation for an Autonomous Independent Network of Distributed Energy Resources	Yoshifumi Zoka Akihiko Sugimoto Naoto Yorino Koji Kawahara Junji Kubokawa	Electric Power Systems Research, , 7 (2007) pp. 831-838
B Controllability Analysis for Operation Margin of Zone 3 Impedance Relay	Shenghu Li Naoto Yorino Yoshifumi Zoka	IEEEJ Trans. PE, , 3 (2007) pp. 502-506
B Operation margin analysis of zone 3 impedance relay based on sensitivities to power injection	Shenghu Li Naoto Yorino Yoshifumi Zoka	IET Proc. Generation, Transmission & Distribution, , 2 (2007) pp. 312-317
B A Method for Transient Stability Assessment Based on Critical Trajectory	Naoto Yorino Ardyono Priyadi Yoshifumi Zoka	Proc. of the International Symposium on Sustainable Energy 2007, (2007) pp. TH-P3

A	o N	o n / No Y
B On the Simulation of Voltage and Line Flow Limits in a Competitive Environment	Lukmanul Hakim Goran Strbac Junji Kubokawa Naoto Yorino Yoshifumi Zoka	Proc. of the International Symposium on Sustainable Energy 2007, (2007) pp. TH-P5
B A Fast Computation Method for Thermal capacity and Voltage ATC by Means of Homotopy Functions	Naoto Yorino Yoshifumi Zoka Mehdi Eghbal Koki Kawano Hiroyasu Suenari Jha Deependra Kumar	Proc. of the International Conference on Power Systems (ICPS'07), (2007)
B Application of Metaheuristic Methods to Reactive Power Planning: A Comparative Study for GA, PSO and EPSO	Mehdi Eghbal E. E. El-Araby Yoichi Ito Yoshifumi Zoka Naoto Yorino	Proc. of the IEEE International conference on Systems, Man and Cybernetics (SMC), (2007) pp. Paper #889
B A STATCOM Regulates System Voltage of Multimachine Systems	Mobarak Youssef Naoto Yorino Yoshifumi Zoka	Proc. of the 5th International Workshop on Institute of Electrical Installation Engineers in Japan, (2007) pp. W-4
B Design Optimal Feedback Control Using Evolution Partial Swarm Optimization in Multi-Machine Power System	Ardyono Priyadi Yoshifumi Zoka Naoto Yorino	Proc. of the 5th International Workshop on Institute of Electrical Installation Engineers in Japan, (2007) pp. W-6
B Application of Metaheuristic Methods to Reactive Power Planning	Mehdi Eghbal Yoshifumi Zoka Naoto Yorino	Proc. of the 5th International Workshop on Institute of Electrical Installation Engineers in Japan, (2007) pp. W-7
B Determination of Optimal Reservoir Operation Policy for Hydro-Electric Plants using Stochastic Dynamic Programming	Jha Deependra Kumar Yoshifumi Zoka Naoto Yorino	Proc. of the 5th International Workshop on Institute of Electrical Installation Engineers in Japan, (2007) pp. W-8
B Voltage Security Constrained Reactive Power Planning Considering the Costs and Performance of VAR Devices	Mehdi Eghbal Naoto Yorino E. E. El-Araby Yoshifumi Zoka	Proc. of the iREP Symposium 2007, Bulk Power System Dynamics and Control-VII, MA (2007) pp. Paper #82
B A Modified DEA Model for Benchmarking of Hydropower Plants	Jha Deependra Kumar Naoto Yorino Yoshifumi Zoka	Proc. of the Power Tech 2007, (2007) pp. Paper #30
B Optimal Allocation of Slow and Fast VAR Resources Considering Multi-Load Level States	Mehdi Eghbal E. E. El-Araby Yoshifumi Zoka Naoto Yorino	Proc. of the IASTED International Conference on Power and Energy Systems (AsiaPES2007), (2007)
B LMI-Based Additive Gain for Guaranteed Cost Control of Robotic Manipulator with Deadzone	Hiroaki Mukaidani Takayoshi Umeda Yoshiyuki Tanaka Toshio Tsuji	the 2007 American Control Conference, (2007) pp. 4077-4082
B Simultaneous Learning of Robot Impedance Parameters Using Neural Networks	Mutsuhiro Terauchi Yoshiyuki Tanaka Seishiro Sakaguchi Nan Bu Toshio Tsuji	Journal of Robotics and Mechatronics, 1 (2007) pp. 106-113
B Analysis and Modeling of Human Impedance Properties for Designing a Human-Machine Control System	Yoshiyuki Tanaka Teruyuki Onishi Toshio Tsuji Naoki Yamada Yuusaku Takeda Ichiro Masamori	Proceedings of the 2007 IEEE International Conference on Robotics and Automation, (2007) pp. 3627-3632

	Author(s)	Publication
B An Optimum Design of Robotic Hand for Handling a Visco-elastic Object Based on Maxwell Model	Naoki Sakamoto Mitsuru Higashimori Toshio Tsuji Makoto Kaneko	IEEE International Conference on Robotics and Automation, (2007) pp. 1219-1225
B Human Hand Movements in Skilled Motor Performance of a Virtual Curling Task	Yoshiyuki Tanaka Kazuhiro Matsushita Toshio Tsuji Nobuaki Imamura	2007 IEEE/ICME International Conference on Complex Medical Engineering-CME2007, (2007) pp. 1338-1343
B FPGA Implementation of a Probabilistic Neural Network using Delta-Sigma Modulation for Pattern Discrimination of EMG Signals	Keisuke Shima Toshio Tsuji	2007 IEEE/ICME International Conference on Complex Medical Engineering-CME2007, (2007) pp. 403-408
B Evaluation of Autonomic Nervous Activity Based on Arterial Wall Impedance and Heart Rate Variability	Abdugheni Kutluk Kenji Shiba Toshio Tsuji Ryuji Nakamura Noboru Saeki Masashi Kawamoto	2007 IEEE/ICME International Conference on Complex Medical Engineering-CME2007, (2007) pp. 469-474
B A neural network model of the olfactory system of mice -computer simulation of an attention behavior of mice to some components in an odor-	Zu Soh Toshio Tsuji Noboru Takiguchi Hisao Ohtake	Proceedings of the Twelfth International Symposium on Artificial Life and Robotics, (2007) pp. 110-115
B Analysis of Specific Absorption Rate and Current Density in an Energy Transmission System for a Wireless Capsule Endoscope	Kenji Shiba Tomohiro Nagato Toshio Tsuji Kohji Koshiji	Proceedings of the 2007 IEEE International Conference of the Engineering in Medicine and Biology Society, (2007) pp. 6051-6054
B Design of the air-core transcutaneous transformer for an artificial heart considering the electromagnetic influence on biological tissue	Kenji Shiba Masayuki Nukaya Toshio Tsuji	Proceedings of the joint congress of the 45th Annual Meeting of the Japanese Society for Artificial Organs & the 2nd Meeting of the International Federation for Artificial Organs, (2007) pp. 72
B Basic Consideration on Robotic Food Handling by Using Burger Model	Naoki Sakamoto Mitsuru Higashimori Toshio Tsuji Makoto Kaneko	The 4th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI 2007), (2007) pp. 363-368
B A Layout Design Method of Human-Vehicle Systems based on Equivalent Inertia Indices	Masatoshi Hada Toshio Tsuji	Proceeding of the 4th International Symposium on Mechatronics and its Applications, ISMA07, (2007) pp. 1-6
B An Analysis of Equivalent Impedance Characteristics by Modeling the Human Musculoskeletal Structure as a Multibody System	Masatoshi Hada Daisuke Yamada Toshio Tsuji	Proceeding of the ECCOMAS Thematic Conference on Multibody Dynamics, BM1, (2007) pp. 1-20
B Pattern Discrimination of Mechanomyogram Using A Delta-sigma Modulated Probabilistic Neural Network	Keisuke Shima Toshio Tsuji	The 1st International Conference on Cognitive Neurodynamics, (2007) pp. 4
B Active Strobe Imager for Visualizing Dynamic Behavior of Tumors	Makoto Kaneko Chisashi Toya Masazumi Okajima	Proc. of the IEEE Int. Conf. on Robotics and Automation, (2007) pp. 109
B Real-time and Long-time Quantification of Behavior of Laboratory Mice Scratching	Idaku ISHII Yuman NIE Kenkichi YAMAMOTO Kensuke ORITO Hiroshi MATSUDA	Proceedings of the 3rd Annual IEEE Conference on Automation Science and Engineering, (2007) pp. 629-633
B A High-Speed 3D Shape Measurement System Using a Multi-Sided Mirror	Kenkichi Yamamoto Hiroaki Fujii Idaku Ishii	Proceedings of the 3rd Annual IEEE Conference on Automation Science and Engineering, (2007) pp. 823-828

B	A o N	o n / , / , No Y
High-Speed 3D Image Acquisition Using Coded Structured Light Projection	Idaku Ishii Kenkichi Yamamoto Kensuke Doi Tokuo Tsuji	Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems, (2007) pp. 925-930
High-Speed Visual Tracking of the Nearest Point of an Object Using 1,000-fps Adaptive Pattern Projection	Tomoyuki Inoue Shingo Kagami Joji Takei Koichi Hashimoto Kenkichi Yamamoto Idaku Ishii	Proceedings of the 2007 IEEE International Workshop on Projector-Camera Systems, (2007)
Grasp Force Magnifying Mechanism for Parallel Jaw Grippers	Takeshi Takaki Toru Omata	Proc. of the 2007 IEEE International Conference on Robotics and Automation, (2007) pp. 199-204
Friction Independent Dynamic Capturing Strategy for a 2D Stick-shaped Object	Mitsuru Higashimori Maiko Kimura Idaku Ishii Makoto Kaneko	Proc. of the 2007 IEEE International Conf. on Robotics and Automation, (2007) pp. 217-224
Contact Probe Based Stiffness Sensing of Human Eye by Considering Contact Area	Yuichi Kurita Yoshichika Iida Roland Kempf Makoto Kaneko Hidetoshi Tsukamoto Eiichiro Sugimoto Seiki Katakura Hiromu Mishima	Proc. of the 2007 IEEE International Conf. on Robotics and Automation, (2007) pp. 1906-1911
Dynamic Capturing Strategy for a 2-D Stick-Shaped Object Based on Friction Independent Collision	Mitsuru Higashimori Maiko Kimura Idaku Ishii Makoto Kaneko	IEEE Transactions on Robotics, No.3 (2007) pp. 541-552
Contact Based Stiffness Sensing of Human Eye	Yuichi Kurita Roland Kempf Yoshichika Iida Jumpei Okude Makoto Kaneko Hiromu K Mishima Hidetoshi Tsukamoto Eiichiro Sugimoto Seiki Katakura Ken Kobayashi Yoshiaki Kiuchi	IEEE Transactions on Biomedical Engineering, (2007) pp. 973-979
Identification of Equine Subclinical Lameness Induced by Pressure to the Sole of Fore- or Hindlimb	K.Orito S.Kurozumi I.Ishii T.Takahashi A.Hiraga H.Matsuda	Journal of Equine Veterinary Science, No.10 (2007) pp. 429-434
A Sensitive Gait Parameter for Quantification of Arthritis in Rats, Journal of Pharmacological Sciences	Kensuke Orito Shogo Kurozumi Idaku Ishii Akane Tanaka Junko Sawada Hiroshi Matsuda	A Sensitive Gait Parameter for Quantification of Arthritis in Rats, No.2 (2007) pp. 113-116

C. Information Engineering

	A O N	o n / , ' o / , No Y
C Near Optimal Randomized Initialization on the 1-Dimensional Reconfigurable Mesh	Koji Nakano	International Journal of Principles and Applications in Information Science and Technology, 1 (2007) pp. 53-64
C Efficient Hardware Algorithms for N Choose K Counters Using the Bitonic Merger	Yasuaki Ito Koji Nakano Youhei Yamagishi	International Journal on Foundations of Computer Science, 3 (2007) pp. 517-528
C Randomized Initialization on the 1-dimensional Reconfigurable Mesh	Koji Nakano	Proc. of International Conference on Parallel and Distributed Computing, Applications and Technologies, 9, 300 (2007) pp. 293-300
C Cluster-dot Screening by Local Exhaustive Search with Hardware Acceleration	Yasuaki Ito Koji Nakano	Proc. of Workshop on Advances in Parallel and Distributed Computational Models (CD-ROM), (2007)
C Proteus: An Architecture for Adapting Web Page on Small-Screen Devices	M. F. Caetano A.L.F. Fialho J.L.Bordim C.D.Castanho R.P.Jacobi K. Nakano	Proc. of IFIP International Conference on Network and Parallel Computing, (2007)
C Extended Skip Graphs for Efficient Key Search in Peer-to-Peer Environment	Satoshi Fujita Akira Ohtsubo Masaya Mito	Journal of Interconnection Networks, 2 (2007) pp. 119-132
C A Content Addressable Small-World Network	Akira Ohtsubo Shigeaki Tagashira Satoshi Fujita	Proc. Parallel and Distributed Computing and Networks (PDCN 2007), (2007)
C A P2P Information Monitoring System Supporting Conjunctive Continual Queries	Kouta Maruyama Shigeaki Tagashira Satoshi Fujita	Proc. Parallel and Distributed Computing and Networks (PDCN 2007), (2007)
C ⁹ SwRED: A Robust Active Queue Management Scheme based on Load Level Prediction	Wei Liu Shigeaki Tagashira Satoshi Fujita	Proc. International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA), (2007) pp. 336-341
C Connected Domotic Partition Problem on Directed Path Graphs	Masaya Mito Satoshi Fujita	Proc. 2007 Korea-Japan Joint Workshop on Algorithms and Computation, (2007) pp. 113-120
C FDAR: A Load-Balanced Routing Scheme for Mobile Ad-hoc Networks	Xiao-Ran Wang Shigeaki Tagashira Satoshi Fujita	Proc. 6th International Conference on Ad-Hoc, Mobile, and Wireless Networks, ADHOC-NOW 2007, (2007) pp. 186-197
C A Peer Selection Scheme for P2P Download Systems based on a Matchmaking Method	Ai Sugimoto Shigeaki Tagashira Satoshi Fujita	Proc. Fifth Int'l Workshop on Databases, Information Systems and Peer-to-Peer Computing, (2007)
C Proximity-Aware Content Addressable Network Based on Vivaldi Network Coordinate System	Kenji Doi Shigeaki Tagashira Satoshi Fujita	Proc. Fifth Int'l Workshop on Databases, Information Systems and Peer-to-Peer Computing, (2007)
C Performance Comparison of Algorithms for the Dynamic Shortest Path Problem	Satoshi Taoka Dasisuke Takafuji Takashi Iguchi Toshimasa Watanabe	IEICE Trans. Fundamentals, 9, A, 4 (2007) pp. 847-856

C	A o N	o n No Y
Enhancing PC Cluster-based Parallel Branch-and-Bound Algorithms for the Graph Coloring Problem	Satoshi Taoka Toshimasa Watanabe	Proc. the 20th Workshop on Circuits and Systems in Karuizawa, (2007) pp. 391-396
Univalence of a complex linear combination of two extremal parallel slit mappings	Shiba, M.	Analysis, (2007) pp. 301-310
Theoretical justification of decision rules for the number of factors: Principal component analysis as a substitute for factor analysis in one-factor cases	Manabu Sato Masaaki Ito	Journal of The Japan Statistical Society, 2 (2007) pp. 175-190
Non-rigid Image Registration for Medical Imaging using a Free-form Deformation	Toru Higaki Toru Tamaki Kazufumi Kaneda Nobutada Date Shogo Azemoto	Proc. of IEVC2007; Image Electronics and Visual Computing Workshop, (2007)
Upgrading Eigenspace-based Prediction using Null Space and its Application to Path Prediction	Yuji Shinomura Toru Tamaki Toshiyuki Amano Kazufumi Kaneda	Proc. of Subspace2007, (2007) pp. 24-31
The secret of rotating object images – Using cyclic permutation for view-based pose estimation –	Toru Tamaki Toshiyuki Amano Kazufumi Kaneda	Proc. of Subspace2007, (2007) pp. 17-23
A Classroom Practice of Error-based Simulation as Counterexample to Students	Tomoya Horiguchi Isao Imai Takahito Toumoto Tsukasa Hirashima	Proc. of ICCE2007(Frontiers in Artificial Intelligence and Applications, 162), (2007) pp. 519-525
Automatic Generation of Computer-Based Learning Games for Problem Solving	Takanobu Umetsu Yoshinori Kakiya Tsukasa Hirashima Akira Takeuchi	The Supplementary Proceedings of ICCE 2007 Poster Papers, (2007) pp. 65-66
Learning by Problem-Posing as Sentence-Integration and Experimental Use	Tsukasa Hirashima Takuro Yokoyama Masahiko Okamoto Akira Takeuchi	Proceedings of AIED 2007(Frontiers in Artificial Intelligence and Applications, 158), (2007) pp. 254-261
Differential Indexing as a Metadata Model of Exercise Problems	Tsukasa Hirashima	Proc. of Supplemental Proceedings of ICCE 2007, (2007) pp. 123-127
Recommendation of Visual Information by Gaze-Based Implicit Preference Acquisition	Atsuo Yoshitaka Kouki Wakiyama Tsukasa Hirashima	Advances in Multimedia Modeling, Lecture Notes in Computer Science 4351, (2007) pp. 126-137
Thinking Process Based Reflection Promotes Conceptual Change: In the lesson of "Three States of Matter" Using Concept Mapping Software for Reconstructing Learning Processes	Akiko Deguchi Shigenori Inagaki Etsuji Yamaguchi Hideo Funaoi	Proceedings of the National Association for Research in Science Teaching 2007 Annual Meeting [CD-ROM], (2007)
Digital Fortune Line System: Technology for Promoting Conceptual Change through Visualization and Sharing of Learners' Conceptual Ecologies	Etsuji Yamaguchi Akiko Deguchi Naohisa Misawa Hideo Funaoi Shigenori Inagaki Masaji Fujimoto	Proceedings of World Conference of Educational Multimedia, Hypermedia and Telecommunications 2007, (2007) pp. 3837-3842
Evaluation of Digital Fortune Line System: How Does It Mediate Sharing of Learners' Commitment?	Naohisa Misawa Etsuji Yamaguchi Shigenori Inagaki Hideo Funaoi Akiko Deguchi Masaji Fujimoto	The Supplementary Proceedings of ICCE 2007 Poster Papers, (2007) pp. 5-6
A ve-state von Neumann neighbor universal hyperbolic cellular automaton	Katsunobu Imai Chuzo Iwamoto Kenichi Morita	Journal of Cellular Automata, 4 (2007) pp. 275-297

- | | A | o | N | o | n | o | n |
|--|---|--------|---|--|---|---|-------------|
| C Simple universal one-dimensional reversible cellular automata | Kenichi | Morita | | Journal of Cellular Automata, 2 (2007) | | | pp. 159-166 |
| C Computation-universality in simple reversible systems | Kenichi | Morita | | Proc. Unconventional Computing 2007, Bristol, (2007) | | | pp. 314-314 |
| C Translational lemmas for DLOGTIME-uniform circuits, alternating TMs, and PRAMs | Chuzo Iwamoto
Naoki Hatayama
Yoshiaki Nakashiba
Kenichi Morita
Katsunobu Imai | | | Acta Informatica, 5 (2007) | | | pp. 345-359 |
| C A universal reversible Turing machine | Kenichi Morita
Yoshikazu Yamaguchi | | | Proc. 5th Int. Conf. on Machines, Computations, and Universality, LNCS 4664, Springer-Verlag, (2007) | | | pp. 90-98 |
| C A Time Hierarchy Theorem for Non-deterministic Cellular Automata | Chuzo Iwamoto
Harumasa Yoneda
Kenichi Morita
Katsunobu Imai | | | Proc. 4th Ann. Conf. on Theory and Applications of Models of Computation, LNCS 4484, Springer-Verlag, (2007) | | | pp. 511-520 |
| C A characterization of von Neumann neighbor number-conserving cellular automata | Naonori Tanimoto
Katsunobu Imai | | | Proc. 2nd International Workshop on Natural Computing, Nagoya, (2007) | | | pp. 1-10 |
| C Calabi-Yau threefolds arising from fiber products of rational quasi-elliptic surfaces, I | Masayuki Hirokado
Hiroyuki Ito
Natsuo Saito | | | Ark. Mat., 2 (2007) | | | pp. 279-296 |
| C Discrete-time spare ordering policy with randomized lead times and discounting | B. C. Giri
T. Dohi
N. Kaio | | | International Transactions in Operational Research, 6 (2007) | | | pp. 561-576 |
| C Estimating cost-effective checking request policies | T. Dohi
N. Kaio
S. Osaki | | | Quality Technology, and Quantitative Management, 2 (2007) | | | pp. 1-13 |
| C Inspection scheduling for imperfect production processes under free repair warranty contract | B. C. Giri
T. Dohi | | | European Journal of Operational Research, (2007) | | | pp. 238-252 |
| C Optimal (T, S)-policies in a discrete-time opportunity-based age replacement: an empirical study | T. Dohi
N. Kaio
S. Osaki | | | International Journal of Industrial Engineering, 4 (2007) | | | pp. 340-347 |
| C Dynamic software reliability modeling with discrete-test metrics; how good is it? | K. Shibata
K. Rinsaka
T. Dohi | | | International Journal of Industrial Engineering, 4 (2007) | | | pp. 332-339 |
| C Stochastic pro t models under repair-limit replacement program | T. Dohi
N. Kaio
S. Osaki | | | Proceedings of 2007 International Workshop on Recent Advances in Stochastic Operations Research (RASOR'07), (2007) | | | pp. 27-34 |
| C A note on Markov chain Monte Carlo for software reliability models with group data | H. Okamura
T. Sakoh
T. Dohi | | | Proceedings of 2007 International Workshop on Recent Advances in Stochastic Operations Research (RASOR'07), (2007) | | | pp. 221-228 |
| C Effective algorithms for the optimal software rejuvenation schedule under censoring | K. Rinsaka
T. Dohi | | | Proceedings of 2007 International Workshop on Recent Advances in Stochastic Operations Research (RASOR'07), (2007) | | | pp. 243-250 |

A	o N	o n No Y
C A faster estimation algorithm for periodic preventive rejuvenation schedule maximizing system availability	K. Rinsaka T. Dohi	Service Availability: 4th International Service Availability Symposium (ISAS 2007), Lecture Notes in Computer Science, (2007) pp. 94-104
C Variational Bayesian approach for interval estimation of NHPP-based software reliability models	H. Okamura M. Grottke T. Dohi K. S. Trivedi	Proceedings of 2007 International Conference on Dependable Systems and Networks (DSN-2007), (2007) pp. 698-707
C Estimating discrete-time stochastic prot models with preventive/corrective maintenance	N. Shibata K. Iwamoto T. Dohi N. Kaio	CD-ROM Proceedings of 5th International Conference on Mathematical Methods in Reliability - Methodology and Practice- (MMR 2007), (2007)
C Confidence intervals of software release time based on Bayesian estimation	H. Okamura T. Dohi	CD-ROM Proceedings of 5th International Conference on Mathematical Methods in Reliability - Methodology and Practice- (MMR 2007), (2007)
C Empirical stopping rule for testing a software -theory and application-	K. Rinsaka K. Shibata T. Dohi	CD-ROM Proceedings of 5th International Conference on Mathematical Methods in Reliability - Methodology and Practice- (MMR 2007), (2007)
C Performance evaluation for automatic protection switching in CDMA-TDD wireless communication system	L. Zhang H. Okamura T. Dohi	Human-Computer Interaction: 12th International Conference on Human-Computer Interaction (HCI'07) Part IV, Lecture Notes in Computer Science, (2007) pp. 1200-1209
C Bivariate software fault-detection models	T. Ishii T. Dohi H. Okamura	Proceedings of 31st Annual International Computer Software and Applications Conference (COMP-SAC 2007), , 538 (2007)
C Estimating Markov-modulated compound Poisson process	H. Okamura Y. Kamahara T. Dohi	Proceedings of 2nd International Conference on Performance Evaluation Methodologies and Tools (VALUETOOLS 2007), (2007)
C Non-parametric predictive inference of preventive rejuvenation schedule in operational software systems	K. Rinsaka T. Dohi	Proceedings of The 18th International Symposium on Software Reliability Engineering (ISSRE'07), (2007) pp. 247-256
C Statistical inference of computer virus propagation using non-homogeneous Poisson processes	H. Okamura K. Tateishi T. Dohi	Proceedings of The 18th International Symposium on Software Reliability Engineering (ISSRE'07), (2007) pp. 149-158
C Quantifying software maintainability based on a fault-detection/correction model	K. Shibata K. Rinsaka T. Dohi H. Okamura	Proceedings of 13th Pacific Rim International Symposium on Dependable Computing (PRDC'07), (2007) pp. 35-42
C PISRAT: Proportional intensity-based software reliability assessment tool	K. Shibata K. Rinsaka T. Dohi	Proceedings of 13th Pacific Rim International Symposium on Dependable Computing (PRDC'07), (2007) pp. 43-52

- | | A o N | o n / No Y |
|--|--|---|
| C Quantitative evaluation of intrusion tolerant systems subject to DoS attacks via semi-Markov cost models | T. Uemura
T. Dohi | Emerging Directions in Embedded and Ubiquitous Computing: International Conference EUC 2007 Workshops, Lecture Notes in Computer Science, (2007)
pp. 31-42 |
| C Modification of a cubic Bezier spirals for curve design | Koichi Harada
Hideki Usui
Koichiro Nishi | Trans. IEICE, , 1 (2007)
pp. 364-370 |
| C Development for parallel Hop field neural network implemented for GPU | Zhong He
Koichi Harada | Proc. ICITA2007, (2007)
pp. 221-226 |
| C Harr wavelet based approach for image compression and quality assessment of compressed image and scalable image compression scheme with wavelets | Kamrul H Talukder
Koichi Harada | IAENG Int. Jour. Appl. Math., , 1 (2007)
pp. 49-56 |
| C Development and performance analysis of an adaptive and scalable image compression scheme with wavelets | Kamrul H Talukder
Koichi Harada | Proc. ICICT2007, (2007)
pp. 250-253 |
| C A connected component labeling algorithm for grayscale images and application of the algorithm on mammograms | Roshan D Yapa
Koichi Harada | Proc. 2007 ACM Symp. on Appl. Comp., (2007)
pp. 146-152 |
| C Application of fast-marching method on mammograms for breast skin-line estimation | Roshan D Yapa
Koichi Harada | Proc. 2nd Int. Conf. on Ind. and Inform. System, (2007) |
| C Discrete wavelet transform for image compression and a model of parallel image compression scheme for formal verification | Kamrul H Talukder
Koichi Harada | Proc. World Congress on Eng. 2007, (2007)
pp. 531-535 |
| C Single-patch NURBS face | Ken Yano
Koichi Harada | Proc. SITIS 2007, (2007)
pp. 771-776 |
| C Use of Fuzzy Neural Network in Diagnosing Postmenopausal Women with Osteoporosis Based on Dental Panoramic Radiographs | Agus Zainal Ari n
Akira Asano
Akira Taguchi
Takashi Nakamoto
Masahiko Ohtsuka
Mikio Tsuda
Yoshiki Kudo
Keiji Tanimoto | Journal of Advanced Computational Intelligence and Intelligent Informatics, , 8 (2007)
pp. 1049-1058 |
| C Measurement of Surface Property Using A Special Sensor Developed for Pile Materials | Takako Fujimoto
Mathew R. Sunderland
Surinder K. Tandon
Chie Muraki Asano
Akira Asano
Choji Murata
Hiroaki Fukuyama | Proc. International Conference on Kansei Engineering and Emotion Research 2007, (2007) |
| C Evaluation of Kansei of Clothing Materials: Part I - Visual Impression and Properties of Black Fabrics - | Machiko Murakami
Chie Muraki Asano
Akira Asano
Takako Fujimoto
Surinder K. Tandon
Steve McNeil
Carolyn Piper
Miyuki Morita
Masukuni Mori | Proc. International Conference on Kansei Engineering and Emotion Research 2007, (2007) |
| C Evaluation of Kansei of Clothing Materials: Part II - Texture and Visual Impressions Using Novel Technique - | Chie Muraki Asano
Takako Fujimoto
Akira Asano
Machiko Murakami
Surinder K. Tandon
Steve McNeil
Carolyn Piper
Miyuki Morita
Masukuni Mori | Proc. International Conference on Kansei Engineering and Emotion Research 2007, (2007) |

C	A o N	o n No Y
Morphological Texture Manipulation and Human Visual Impressions	Chie Muraki Asano Akira Asano Takako Fujimoto	Proc. International Conference on Kansei Engineering and Emotion Research 2007, (2007)
Automatic Region-of-Interest Extraction from Dental Panoramic Radiographs for Forensic Personal Identification	Febriliyan Samopa Akira Asano Akira Taguchi	Proc. 2nd Korean-Japan Joint Workshop on Pattern Recognition; IEICE Tech. Rep., , 281 (2007) pp. 161-166
Image Retrieval based on Object Extraction and Kansei Estimation	Nanik Suciati Darlis Hermurti Joko Lianto Buliali Dyah Wardhani Kusuma Ahmad Saikhu Chie Muraki Asano Akira Asano	Proc. 2nd Korean-Japan Joint Workshop on Pattern Recognition; IEICE Tech. Rep., , 281 (2007) pp. 191-196
Analytic Compactification of C^2/D	Mikio Furushima Yasuhiko Ohshima Tadashi Shima	Abhandlungen aus dem Mathematischen Seminar der Universitaet Hamburg, (2007) pp. 155-168
GA-optimal partially balanced fractional $2^{m_1+m_2}$ factorial designs of resolution $R((00,10,01,11) \Omega)$ with $2 \leq m_1, m_2 \leq 4$	Shujie Lu Eiji Taniguchi Yoshifumi Hyodo Masahide Kuwada	Scientiae Mathematicae Japonicae, , 1 (2007) pp. 81-94
GA-optimal partially balanced fractional $2^{m_1+m_2}$ factorial designs of resolution $R((00,10,01) \Omega)$ with $2 \leq m_1, m_2 \leq 4$	Shujie Lu Eiji Taniguchi Yoshifumi Hyodo Masahide Kuwada	Hiroshima Math. J., , 1 (2007) pp. 119-143
GA-optimal partially balanced fractional $2^{m_1+m_2}$ factorial designs of resolution $R((10,01) \Omega)$ with $2 \leq m_1, m_2 \leq 4$	Shujie Lu Eiji Taniguchi Yoshifumi Hyodo Masahide Kuwada	Journal of Statistical Theory and Practice, , 3&4 (2007) pp. 427-464
Geometrical Information Fusion from WWW and Its Related Information	Yasuhiko Morimoto	Springer LNCS (Proceedings of The 5nd International Workshop on Databases in Networked Information System), (2007) pp. 16-32

D. Chemistry and Chemical Engineerin

- | | A o N | o n ' , ' o ' , ' No Y |
|---|--|--|
| Photoluminescence Optimization of Luminescent Nanocomposites by Spray Pyrolysis of a Colloid-Solution Precursor | W.-N. Wang
Widiyastuti
I.W. Lenggoro
T.-O. Kim
K. Okuyama | J. Electrochem. Soc., 4 (2007)
pp. J121-J128 |
| Monolayer Deposition of L ₁₀ FePt Nanoparticles via Electro spray Route | H. M. Lee
S. G. Kim
I. Matsui
T. Iwaki
F. Iskandar
I. W. Lenggoro
K. Okuyama | J. Magn. Magn. Mater., 1 (2007)
pp. 62-68 |
| Fabrication of Reference Filter for Measurements of EC (Elemental Carbon) and OC (Organic Carbon) in Aerosol Particles | H. M. Lee
K. Okuyama
A. Mizohata
T. O. Kim
H. Koyama | Aerosol Sci. Tech., 3 (2007)
pp. 284-294 |
| Colloidal Nanoparticle Analysis by Nanoelectrospray Size Spectrometry with a Heated Flow | I. W. Lenggoro
H. Widiyandari
C. J Hogan Jr
P. Biswas
K. Okuyama | Anal. Chim. Acta., 2 (2007)
pp. 193-201 |
| Enhanced Photocatalytic Performance of Brookite TiO ₂ Macroporous Particles Prepared by Spray Drying with Colloidal Templating | F. Iskandar
A. B. D. Nandiyanto
K. M. Yun
C. J. Hogan Jr.
K. Okuyama
P. Biswas | Adv. Mater., 10 (2007)
pp. 1408-1412 |
| Production of Narrow Size Distribution Polymer-Pigment Nanoparticle Composites via Electrohydrodynamic Atomization | H. Widiyandari
C. J. Hogan Jr.
K. M. Yun
F. Iskandar
P. Biswas
K. Okuyama | Macromol. Mater. Eng., 9 (2007)
pp. 495-502 |
| Correlations between Crystal-lite/Particle Size and Photoluminescence Properties of Submicron Phosphors | W.-N. Wang
W. Widiyastuti
T. Ogi
I. W. Lenggoro
K. Okuyama | Chem. Mater., 7 (2007)
pp. 1723-1730 |
| Critical Ion Concentration on Pitting and General Corrosion of Copper | A. Yabuki
M. Murakami | Corrosion, 3 (2007)
pp. 249-257 |
| Simulation and Experiment of Spray Pyrolysis of Polydisperse Droplets | Widiyastuti
W.-N. Wang
I. W. Lenggoro
F. Iskandar
K. Okuyama | J. Mater. Res., 7 (2007)
pp. 1888-1898 |
| Formation of BaTiO ₃ nanoparticles from an aqueous precursor by flame assisted spray pyrolysis | A. Purwanto
W.-N. Wang
I. W. Lenggoro
K. Okuyama | J. Eur. Ceram. Soc., 16 (2007)
pp. 4489-4497 |
| Low Temperature Crystallization of Barium Ferrite Nanoparticles by a Sodium Citrate-Aided Synthetic Process | S. G. Kim
W.-N. Wang
T. Iwaki
A. Yabuki
K. Okuyama | J. Phys. Chem. C., 28 (2007)
pp. 10175-10180 |
| Controlled Size Polymer Particle Production via Electrohydrodynamic Atomization | C. J. Hogan
K. M. Yun
D. Chen
I. W. Lenggoro
P. Biswas
K. Okuyama | Colloid and Surf A: Physicochemical and Engineering Aspects, 1-3 (2007)
pp. 67-76 |

Title	Authors	Journal
Nanoparticle Filtration by Electrospun Polymer Fibers	K. M. Yun C. J. Hogan Y. Matsubayashi M. Kawabe F. Iskandar K. Okuyama	Chem. Eng. Sci., 17 (2007) pp. 4751-4759
Heating Profile Effect on Morphology, Crystallinity and Photoluminescent Properties of Y ₂ O ₃ :Eu ³⁺ Phosphor Nanoparticles Prepared Using an Electrospinning Method	M. M. Munir K. M. Yun F. Iskandar A. Yabuki K. Okuyama	Jpn. J. Appl. Phys., 46, 10A (2007) pp. 6705-6709
A pulse combustion-spray pyrolysis process for the preparation of nano- and submicron-sized oxide particles	Widiyastuti W.-N. Wang A. Purwanto I. W. Lenggoro K. Okuyama	J. Am. Ceram. Soc., 90, 12 (2007) pp. 3779-3785
Barrier and self-healing abilities of corrosion protective polymer coatings and metal powders for aluminum alloys	A. Yabuki H. Yamagami K. Noishiki	Materials and Corrosion, 38, 7 (2007) pp. 497-501
Corrosion of an aluminum alloy chilled in flowing seawater and the effect of cathodic prevention	A. Yabuki David T. Yasunaga T. Shibutani K. Shinkai	Materials and Corrosion, 38, 5 (2007) pp. 340-344
Biopersistence of Inhaled Nickel Oxide Nanoparticles in Rat Lung	T. Oyabu A. Ogami Y. Morimoto M. Shimada I. W. Lenggoro K. Okuyama I. Tanaka	Inhalation Technology, 9, Suppl. 1 (2007) pp. 55-58
Technology Innovation in the Nanoparticle Project -Synthesis of Nanoparticles and Nanocomposites-	Kikuo Okuyama Wei-Ning Wang Ferry Iskandar	KONA, (2007) pp. 237-243
Study on phase behaviors of supercritical CO ₂ including surfactant and water	Masashi Haruki Hiroyuki Yawata Mari Nishimoto Masashi Tanto Shin-ichi Kihara Shigeki Takishima	Fluid Phase Equilibria, (2007) pp. 92-98
PVT properties of polyethylene copolymer melts	Yoshiyuki Sato Hajime Hashiguchi Kenzo Inohara Shigeki Takishima Hirokatsu Masuoka	Fluid Phase Equilibria, (2007) pp. 124-130
Dielectric Behavior of cis-Polyisoprene in Carbon Dioxide under High Pressure	Yumi Matsumiya Tadashi Inoue Hiroshi Watanabe Shin-ichi Kihara Masahiro Ohshima	Nihon Reoroji Gakkaishi, (2007) pp. 155-161
Dewatering of activated sludge by thermosensitive polymers	Shuji Sakohara Eiichi Ochiai Tomoaki Kusaka	Separation and Purification Technology, (2007) pp. 296 -302
Synthesis of Porous Poly(N-isopropylacrylamide) Gel Beads by Sedimentation Polymerization and Their Morphology	Takashi Iizawa Hatsumi Taketa Makoto Maruta Takashi Ishido Takehiko Gotoh Shuji Sakohara	Journal of Applied Polymer Science, 104 (2007) pp. 842-845
Synthesis of Nonporous Poly(N-alkylacrylamide) Gel Beads by Nonaqueous Sedimentation Polymerization	Takashi Iizawa Takashi Ishido Takehiko Gotoh Shuji Sakohara	Polymer Journal, 39, 1 (2007) pp. 18-20

- Synthesis and Swelling/De-swelling Behavior of Core-Shell Type Gel Consisting of Two Different Poly(N-alkylacrylamide) Gel Layers
 Takashi Iizawa
 Akihiro Terao
 Machiko Ohuchida
 Yoshinobu Matsuura
 Yukio Onohara
 Polymer Journal, 39(2007)
 pp. 1177-1184
- Dewatering of Organic Slurries Using Reinforced Thermosensitive Porous Gels -Effect of preparation conditions on the dewatering performance of the gel-
 Takehiko Gotoh
 Hiroshi Okamoto
 Shuji Sakohara
 Polymer Bulletin, 59 (2007)
 pp. 213-223
- Work of Adhesion as a Dominant Factor in Formation of Composition-Gradient Thermosensitive Gel
 Hideaki Tokuyama
 Masahiro Sasaki
 Shuji Sakohara
 Chemical Engineering Technology, 28(2007)
 pp. 139-144
- Effect of synthesis-solvent on swelling and elastic properties of poly(N-isopropylacrylamide) hydrogels
 Hideaki Tokuyama
 Noriaki Ishihara
 Shuji Sakohara
 European Polymer Journal, 43(2007)
 pp. 4975-4982
- Preparation of asymmetric thermosensitive double-layer gel
 Takashi Iizawa
 Akihiro Terao
 Machiko Ohuchida
 The 10th Pacific Polymer Conference (PPC10), (2007)
 pp. 199a
- Dewatering of Organic Slurry with Improved Reinforced Porous Thermosensitive Gel
 Takehiko Gotoh
 Shinya Fukuda
 Shuji Sakohara
 Filtration and Separation Symposium 2007, (2007)
 pp. 139-143
- A molecular dynamics simulation of pressure-driven gas permeation in a micropore potential field on silica membranes
 Tomohisa Yoshioka
 Masashi Asaeda
 Toshinori Tsuru
 Journal of Membrane Science, 309(2007)
 pp. 81-93
- Thermal stability improvement of MFI-type zeolite membranes with doped zirconia intermediate layer
 Masakoto Kanezashi
 Jessica O'Brien
 Y.S. Lin
 Microporous and Mesoporous Materials, 100(2007)
 pp. 302-308
- Gas permeation and diffusion in small and intermediate pore zeolite membranes
 Y.S. Lin
 Masakoto Kanezashi
 Studies in Surface Science and Catalysis, 150(2007)
 pp. 847-854
- Growth processes of poly methylmethacrylate particles investigated by atomic force microscopy
 Tetsuya Yamamoto
 K. Higashitani
 Advanced Powder Technology, 19(2007)
 pp. 567-577
- Effects of microwave irradiation on the crystalline phase of zeolite synthesized from fly ash by hydrothermal treatment
 Kunihiro Fukui
 K. Kanayama
 T. Yamamoto
 H. Yoshida
 Advanced Powder Technology, 19(2007)
 pp. 381-393
- Effect of Apex Cone and Secondary Flow Injection on Classification Performance of Dry-Cyclone
 Hideto Yoshida
 K. Fukui
 T. Yamamoto
 S. Taniguchi
 Y. Nishimura
 The Asian Particle Technology Symposium, B (2007)
- Effects of Microwave Irradiation on the Crystalline Phase of Zeolite Synthesized from Fly Ash by Hydrothermal Treatment
 Kunihiro Fukui
 Yoshinori Isomoto Oka
 Toki Yoshida
 Yoshikazu Yamada
 Toyooki Yasui
 S Hata
 The Asian Particle Technology Symposium, (2007)
- Evaluation of erosion and fatigue resistance of ion plated chromium nitride applied to turbine blades
 Yoshinori Isomoto Oka
 Toki Yoshida
 Yoshikazu Yamada
 Toyooki Yasui
 S Hata
 Wear, 263(2007)
 pp. 379-385
- Effective parameters on erosion caused by water droplet impingement and applications to surface treatment technology
 Yoshinori Isomoto Oka
 Soshi Mihara
 Yoshikazu Miyata
 Wear, 263(2007)
 pp. 386-394
- Facile Synthesis of Highly π -Extended Heteroarenes, Dinaphtho[2,3-b:2',3'-f]chalcogenopheno[3,2-b]chalcogenophenes, and Their Application to Field-Effect Transistors
 Tatsuya Yamamoto
 Kazuo Takimiya
 J. Am. Chem. Soc., 129(2007)
 pp. 2224-2225
- Development of New Semiconducting Materials for Durable High-Performance Air-stable Organic Field-Effect Transistors
 Kazuo Takimiya
 Yoshihito Kunugi
 Tetsuo Otsubo
 Chem. Lett., 36(2007)
 pp. 578-583

- Design strategy for air-stable organic semiconductors applicable to high performance field-effect transistors
 Kazuo Takimiya
 Tatsuya Yamamoto
 Hideaki Ebata
 Takafumi Izawa
 Sci. Tech. Adv. Mater., (2007)
 pp. 273-276
- Solution-Processible n-Channel Organic Field-Effect Transistors Based on Dicyanomethylene-substituted Terthienoquinoid Derivative
 S. Handa
 E. Miyazaki
 K. Takimiya
 Y. Kunugi
 J. Am. Chem. Soc., 129, 38 (2007)
 pp. 11684-11685
- Conductive, Magnetic, and Optical Properties of Sterically Hindered Dodecithiophenes. Evidence for the Coexistence of Bipolaron and pi-Dimer
 T. Kurata
 T. Mohri
 K. Takimiya
 T. Otsubo
 Bull. Chem. Soc. Jpn., 80, 9 (2007)
 pp. 1799-1807
- Development of N-Alkyl-Substituted Bis(pyrrolo[3,4-d])tetrathiafulvalenes as Organic Semiconductors for Solution-Processible Field-Effect Transistors
 I. Doi
 E. Miyazaki
 K. Takimiya
 Y. Kunugi
 Chem. Mater., 19, 22 (2007)
 pp. 5230-5237
- Synthesis, Properties, and Structure of Benzo[1,2-b:4,5-b']bis[b]benzothiophene and Benzo[1,2-b:4,5-b']bis[b]benzoselenophene
 H. Ebata
 T. Yamamoto
 E. Miyazaki
 K. Takimiya
 Org. Lett., 9, 22 (2007)
 pp. 4449-4502
- Highly Soluble [1]Benzothieno[3,2-b]benzothiophene (BTBT) Derivatives for High-Performance, Solution-Processed Organic Field-Effect Transistors
 Hideaki Ebata
 Takfumi Izawa
 Eigo Miyazaki
 Kazuo Takimiya
 Masaaki Ikeda
 Hirokazu Kuwabara
 Tatsuto Yui
 J. Am. Chem. Soc., 129, 51 (2007)
 pp. 15732-15733
- On the Biradicaloid Nature of Long Quinoidal Oligothiophenes: New Experimental Evidences Guided by Theoretical Studies
 R. P. Ortiz
 J. Casado
 V. Hernandez
 J. T. L. Navarrete
 P. M. Viruela
 K. Takimiya
 T. Otsubo
 Angew. Chem. Int. Ed., 46 (2007)
 pp. 9057-9061
- Effects of annealing of poly(3-hexylthiophene) film on the performance of double-layered EL devices of ITO/polymer/Alq3/Mg-Ag
 J. Ohshita
 Y. Tada
 A. Kunai
 Y. Harima
 A. Kohno
 Y. Kunugi
 Synthetic Metals, 156 (2007)
 pp. 104-108
- Fluorescence properties of Si-linked oligothiophenes
 M. Fujitsuka
 D.W. Cho
 J. Ohshita
 A. Kunai
 T. Majima
 J. Phys. Chem. C, 111 (2007)
 pp. 1993-1998
- Synthesis of diarylenaphthylene- and diaryleneanthrylene-containing organosilicon polymers and their applications to organic EL devices
 J. Ohshita
 S. Kangai
 Y. Tada
 H. Yoshida
 K. Sakamaki
 A. Kunai
 Y. Kunugi
 J. Organomet. Chem., 647 (2007)
 pp. 1020-1024
- Synthesis of organosilicon polymers containing donor-acceptor type pi-conjugated units and their applications to dye-sensitized solar cells
 J. Ohshita
 S. Kangai
 H. Yoshida
 A. Kunai
 S. Kajiwara
 Y. Ooyama
 Y. Harima
 J. Organomet. Chem., 647 (2007)
 pp. 801-805
- Palladium-catalyzed silylation of adamantanediol and adamantanetriol, leading to adamantane-siloxane alternating polymers with high heat resistance
 J. Ohshita
 K. Hino
 K. Inata
 A. Kunai
 T. Maehara
 Polymer, 48 (2007)
 pp. 4301-4304

Y	Title	A o N	o n /, 'o', No Y
9	Palladium-catalyzed synthesis of poly(bromoalkoxy- and bromoalkoxyloxymethylsiloxane)s and bromoalkoxyloxymethylsiloxane)s	J. Ohshita K. Inata Y. Izumi A. Kunai	J. Organomet. Chem., 9 (2007) pp. 3526-3531
	Silicon-carbon unsaturated compounds. 72. Thermolysis of acylpolysilanes with diphenylketene	A. Naka N. Fujioka J. Ohshita J. Ikadai A. Kunai H. Kobayashi T. Miura M. Ishikawa	Organometallics, (2007) pp. 5535-5542
	Synthesis of silicon-bridged polythiophene derivatives and their applications to EL device materials	J. Ohshita K. Kimura K.H. Lee A. Kunai Y.W. Kwak E.C. Son Y. Kunugi	Journal of Polymer Science Part a-Polymer Chemistry, 45 (2007) pp. 4588-4596
	Applications of Silicon-bridged Oligothiophenes to Organic FET Materials	J. Ohshita Y. Izumi D.H. Kim A. Kunai T. Kosuge Y. Kunugi A. Naka M. Ishikawa	Organometallics, (2007) pp. 6150-6154
Y	Synthesis of Bis(diarylp6	of	

of

A o N ~

- Bilayer polymer coating containing a polyaniline for corrosion protection of iron
 J. Yano
 K. Nakatani
 Y. Harima
 A. Kitani
 Mater. Lett., (2007)
 pp. 1500-1503
- Synthesis of organosilicon polymers containing donor-acceptor type π -conjugated units and their applications to dye-sensitized solar cells
 J. Ohshita
 S. Kangai
 H. Yoshida
 A. Kunai
 S. Kajiwara
 Y. Ooyama
 Y. Harima
 J. Organometal. Chem., ⁹ (2007)
 pp. 801-805
- Effects of annealing of poly(3-hexylthiophene) film on the performance of double-layered EL devices of ITO/polymer/Alq3/Mg-Ag
 J. Ohshita
 Y. Tada
 A. Kunai
 Y. Harima
 A. Kohno
 Y. Kunugi
 Synth. Metals, (2007)
 pp. 104-108
- A transport study on as-grown and cast films of electrosynthesized poly(3-hexylthiophene)
 X. Jiang
 Y. Harima
 R. Patil
 Mater. Lett., (2007)
 pp. 4687-4689
- ⁹ Synthesis and solid-state fluorescence properties of structural isomers of novel benzofuro[2,3-c]-oxazolocarbazole-type fluorescent dyes
 Y. Ooyama
 Y. Kagawa
 Y. Harima
 Eur. J. Org. Chem., (2007)
 pp. 3613-3621
- ⁹ Poly(N-methylaniline) microsphere formation and control of the average diameter by simple chemical polymerization
 J. Yano
 K. Sanada
 R. Patil
 Y. Ooyama
 K. Komaguchi
 Y. Harima
 Mater. Chem. Phys., (2007)
 pp. 279-285
- ⁹ Dye-sensitized solar cells based on novel donor-acceptor π -conjugated benzofuro[2,3-c]oxazolo[4,5-a]carbazole-type fluorescent dyes exhibiting solid-state fluorescence
 Y. Ooyama
 A. Ishii
 Y. Kagawa
 I. Imae
 Y. Harima
 New J. Chem., (2007)
 pp. 2076-2082
- ⁹ Synthesis of new-type donor-acceptor π -conjugated benzofuro[2,3-c]oxazolo[4,5-a]carbazole fluorescent dyes and their photovoltaic performances of dye-sensitized solar cells
 Y. Ooyama
 Y. Shimada
 Y. Kagawa
 Y. Yamada
 I. Imae
 Y. Harima
 Tetrahedron Lett., ⁴ (2007)
 pp. 9167-9170
- ⁹ Synthesis of bis(diarylphosphino)dithienosilole derivatives as novel photo- and electroluminescence materials
 J. Ohshita
 Y. Kurushima
 K-H. Lee
 A. Kunai
 Y. Ooyama
 Y. Harima
 Organometal., (2007)
 pp. 6591-6595
- ^{9,4} An ESR and ENDOR study of irradiated 6Li-formate
 K. Komaguchi
 Y. Matsubara
 M. Shiotani
 H. Gustafsson
 E. Lund
 A. Lund
 Spectrochim. Acta, Part A, ^A (2007)
 pp. 754-760
- ⁹ High-Resolution ESR Study of the H \cdot -CH₃, H \cdot -CHD₂, D \cdot -CH₂D, and D \cdot -CD₃ Radical Pairs in Solid Argon
 K. Komaguchi
 K. Nomura
 M. Shiotani
 J. Phys. Chem. A, ⁴ (2007)
 pp. 726-733
- ⁹ Bilayer Polymer Coating Containing a Polyaniline for Corrosion Protection of Iron
 Jun Yano
 Kazumasa Nakatani
 Yutaka Harima
 Akira Kitani
 Material Letters, (2007)
 pp. 1500-1503
- ⁹ Reduction of Oxygen at Polyaniline Electrodes Modified with Platinum and Iron
 Akira Kitani
 Akihisa Yokoo
 Sotaro Ito
 Electrochemistry, ² (2007)
 pp. 182-183

9 High-Pressure Synthesis and Structure of New Barium Chromium Sulphides, BaCr4S7 and Ba2Cr5S10, with New Type Face-Sharing CrS6 Structure Unit

A O N
Hiroshi Fukuoka
Yuji Miyaki
Shoji Yamanaka

Journal of Solid State Chemistry
Bulletin of the Chemical Society of Japan, 80, 11 (2007)
pp. 2170-2176

99 High-pressure Raman study of Ba-doped type-III germanium clathrate Ba24Ge100 up to 26 GPa

H. Shimizu
T. Fukushima
T. Kume
S. Sasaki
H. Fukuoka
S. Yamanaka

J. Appl. Phys., 101, 043508 (2007)

- | | A o N ~ | o n /, 'o' /, No Y |
|---|--|--|
| 9 Promoting effect of Ru on Ni/Mg(Al)O catalysts in DSS-like operation of CH ₄ steam reforming | Takeshi Miyata
Masato Shiraga
Dalín Li
Ikuo Atake
Tetsuya Shishido
Yasunori Oumi
Tsuneji Sano
Katsuomi Takehira | Catal. Commun., (2007)
pp. 447-451 |
| Partial oxidation of propane to synthesis gas over noble metals-promoted Ni/Mg(Al)O catalysts -High activity of Ru-Ni/Mg(Al)O catalyst | Masato Shiraga
Dalín Li
Ikuo Atake
Tetsuya Shishido
Yasunori Oumi
Tsuneji Sano
Katsuomi Takehira | Appl. Catal. A, , (2007)
pp. 143-154 |
| Bromine addition and successive amine substitution of mesoporous ethylenesilica: Reaction, characterization and arsenate adsorption | Kojiro Nakai
Yasunori Oumi
Haruyuki Horie
Tsuneji Sano
Hideaki Yoshitake | Microporous Mesoporous Mater., (2007)
pp. 328-339 |
| Partial oxidation of propane over Ru promoted Ni/Mg(Al)O catalysts -Self activation and prominent effect of reduction-oxidation treatment of the catalyst- | Dalín Li
Masato Shiraga
Ikuo Atake
Tetsuya Shishido
Yasunori Oumi
Tsuneji Sano
Katsuomi Takehira | Appl. Catal. A, (2007)
pp. 155-164 |
| Structural and physico-chemical properties of high-silica mordenite | Yasunori Oumi
Takehide Kanai
Baowang Lu
Tsuneji Sano | Microporous Mesoporous Mater., (2007)
pp. 127-133 |
| 9 Polymerisation of aminopropyltri-alkoxysilane in the presence of carboxylate: a new layered organosilica mesocomposite built up using intermolecular interactions with LB 1m-type self-assembly | Takayuki Chujo
Yu Gonda
Yasunori Oumi
Tsuneji Sano
Hideaki Yoshitake | J. Mater. Chem., (2007)
pp. 1372-1380 |
| Covenient conversion of crystalline layered silicate octosilicate into RWR type zeolite by acetic acid intercalation | Yasunori Oumi
Takeshi Takeoka
Takuji Ikeda
Toshiro Yokoyama
Tsuneji Sano | New J. Chem., (2007)
pp. 593-597 |
| Realumination of zeolite Y under acidic conditions | Yasunori Oumi
Jo Takahashi
Kazuyoshi Takeshima
Hery Jon
Tsuneji Sano | J. Porous Mater., (2007)
pp. 19-26 |
| Aluminum distribution in high-silica mordenite | Baowang Lu
Takehide Kanai
Yasunori Oumi
Tsuneji Sano | J. Porous Mater., (2007)
pp. 89-96 |
| Catalytic behavior of ternary Cu/ZnO/Al ₂ O ₃ systems prepared by homogeneous precipitation in water – gas shift reaction | Ikuo Atake
Kazufumi Nishida
Dalín Li
Tetsuya Shishido
Yasunori Oumi
Tsuneji Sano
Katsuomi Takehira | J. Mol. Catal. A, (2007)
pp. 130-138 |
| 9 Stabiized production of highly concentrated bioethanol from fermentation broths by Zymomonas mobilis by pervaporation using silicon rubber-coated silicalte membranes | Toru Ikegami
Hideyuki Negishi
Hideshi Yanase
Keiji Sakaki
Masayoshi Okamoto
Nobuyuki Koura
Tsuneji Sano
Kenji Haraya
Hiroshi Yanagishita | J. Chem. Technol. Biotechnol., , (2007)
pp. 745-751 |

Title	Authors	Journal	Year
Synthesis of a lamellar mesostructured calcium phosphate using hexadecylamine as a structure-directing agent in the ethanol/water solvent system	Nobuaki Ikawa Yasunori Oumi Tatsuo Kimura Takuji Ikeda Tsuneji Sano	Stud. Surf. Sci. Catal., pp. 253-256	(2007)
Synthesis of layered organosilica binding with self-assembled LB film	Takayuki Chujo Yu Gonda Yasunori Oumi Tsuneji Sano Hideaki Yoshitake	Stud. Surf. Sci. Catal., pp. 433-436	(2007)
Realumination of Y zeolite in ammonium salt solution	Yasunori Oumi Jou Takahashi Kazuyoshi Takeshima Tsuneji Sano	Stud. Surf. Sci. Catal., pp. 604-609	(2007)
Role of ammonium fluoride in crystallization process of beta zeolite	Hery Jon Yasunori Oumi Keiji Itabashi Tsuneji Sano	J. Crystal Growth, pp. 177-184	(2007)
Alkaline-mediated mesoporous mordenite zeolites for acid catalyzed conversions	Johan C. Groen Tsuneji Sano Jacob A. Moulijn Javier Perez-Ramirez	J. Catal., pp. 21-27	(2007)
Estimation of spacing between 3-bromopropyl functions grafted on mesoporous silica surfaces by a substitution reaction using diamine probe molecules	Tomohisa Miyajima Sebastien Abry Wenjuan Zhou Belen Albela Laurent Bonneviot Yasunori Oumi Tsuneji Sano Hideaki Yoshitake	J. Mater. Chem., pp. 3901-3909	(2007)
Self-activation and self-regenerative activity of trace Rh-doped Ni/Mg(Al)O catalysts in steam reforming of methane	Dalin Li Tetsuya Shishido Yasunori Oumi Tsuneji Sano Katsuomi Takehira	Appl. Catal. A, pp. 98-109	(2007)
Steam reforming of CH ₄ over Ni-Ru catalysts supported on Mg-Al mixed oxide	Katsuomi Takehira Takenori Ohi Takeshi Miyata Masato Shiraga Tsuneji Sano	Topics Catal., pp. 471-474	(2007)
Self-regenerative activity of Ni/Mg(Al)O catalysts with trace Ru during daily start-up and shut-down operation of CH ₄ steam reforming	Dalin Li Tetsuya Shishido Yasunori Oumi Tsuneji Sano Katsuomi Takehira	J. Catal., pp. 299-312	(2007)
Enhancement of biodegradation of oil adsorbed on fine soils in a bioslurry reactor	T. Okuda, M. E. Alcantara- Garduno M. Suzuki C. Matsui T. Kose W. Nishijima M. Okada	Chemosphere, pp. 281-286	(2007)
Separation of polyvinyl chloride from plastic Mixture by froth flotation after surface modification with ozone	T. Okuda K. Kurose W. Nishijima M. Okada	Ozone: Science & Engineering, (2007) pp. 373-377	(2007)
Effects of ulvoid (<i>Ulva</i> spp.) accumulation on the structure and function of eelgrass (<i>Zostera marina</i> L.) bed	K. Sugimoto K. Hiraoka S. Ohta Y. Niimura T. Terawaki M. Okada	Marine Pollution Bulletin, (2007) pp. 1582-1585	(2007)

	A O N	o n ' o ' , No Y
Separation of polyvinyl chloride (PVC) from automobile shredder residue (ASR) by froth flotation with ozonation	M. S. Reddy K. Keisuke T. Okuda W. Nishijima M. Okada	Journal of Hazardous Materials, (2007) pp. 1051-1055
Deactivation and reactivation of Pd/C catalyst used in repeated batch hydrodechlorination of PCE	C. Neil C T. Okuda W. Nishijima M. Okada	Applied Catalysis, B: Environmental, (2007) pp. 64-69
Estrogenic activity removal of ethynylestradiol by nitrifying activated sludge and microorganisms involved in its degradation	J. H. Shi M. Nishikawa S. Fujisawa M. Takada S. Nakai M. Hosomi	Environmental Sciences, (2007) pp. 1-16
Polychlorinated dibenzothiophenes in Japanese environmental samples and their photodegradability and dioxin-like endocrine-disruption potential	S. Nakai S. Kishita Y. Nomura M. Hosomi	Chemosphere, (2007) pp. 1852-1857
Calcium accumulation onto GAC used for land fill leachate treatment and its effects on 2,4-DCP adsorption	E. R. Mino T. Okuda W. Nishijima M. Okada	Journal of Chemical Engineering of Japan, (2007) pp. 275-279
Production of assimilable organic carbon (AOC) from bacteria and picophytoplanktons by chlorination	T. Okuda Y. Uehara T.-Y. Tsai S. Nakai M. Akiba W. Nishijima M. Okada	2nd IWA-ASPIRE Conference, (2007)
Separation of Poly(vinyl chloride) (PVC) from automobile shredder residue (ASR) by selective surface modification with ozone and froth flotation	T. Okuda K. Kurose M. S. Reddy W. Nishijima M. Okada	2007 IOA-IUVA Joint World Congress, (2007)
Catalytic hydrodechlorination of tetrachloroethylene at mild conditions on nano-carbon supported Pd catalysts	T.-Y. Tsai T. Okuda Y. Nakano Y.-Y. Li W. Nishijima M. Okada	AIChE Annual Meeting, (2007)
Polymers recycling from automobile shredder residue (ASR): Separation of polyvinyl chloride (PVC) from ASR by froth flotation with ozonation	M. S. Reddy K. Kurose T. Okuda W. Nishijima M. Okada	The 22nd International Conference on Solid Waste Technology and Management, (2007)
Benthic ecosystem developed in artificial tidal flat constructed with dredged soil.	Ryo ISHII Satoshi NAKAI Wataru NISHIJIMA Mitsumasa OKADA	Proceedings of the Third International Conference on Environmental Science and Technology, (2007)
Allelopathic growth inhibition of the cyanobacterium <i>Microcystis aeruginosa</i> by aquatic and terrestrial plants	Satoshi NAKAI Guoyan ZOU Xiangfu SONG Qi PAN Sheng ZHOU Masaaki HOSOMI	Proceedings of the 14th seminar of JSPS-MOE Core University Program on Urban Environment, (2007) pp. 169-178
Indirect heating treatment of dioxins-contaminated sediment using a catalyst to accelerate degradation of dioxins	Satoshi NAKAI Etsuko YOSHIMOTO Masato FUJITA Tomio SUGIMOTO Makoto TAKADA Masaaki HOSOMI	Organohalogen Compounds, (2007) pp. 2532-2535
Effect of different adsorption/desorption properties and biodegradability of chemicals on the performance of powdered activated carbon (PACT) processes	Yoichi Nakano Tri Widjaja Tomonori Miyata Wataru Nishijima Mitsumasa Okada	Journal of Water and Environment Technology, 2 (2007) pp. 71-78

EFFECTS OF PRETREATMENTS ON CALCIUM ACCUMULATION ONTO GAC

A o N ~
 Esteban R. Mino
 Tetsuji Okuda
 Wataru Nishijima
 Mitsumasa Okada

o n / , o / , No Y
 Journal of Water and Environment
 Technology, , 2 (2007)
 pp. 109-116

E. Social and Environmental Systems Engineering

Flexural Behavior of Reinforced Recycled Concrete Beams

A o N ~
 Ryoichi Sato
 Ipei Maruyama
 Takahisa Sogabe
 Masaru Sogo

o n / , o / , No Y
 Journal of Advanced Concrete
 Technology, , 1 (2007)
 pp. 46-61

Serviceability Performance Evaluation of RC Flexural Members Improved by Using Low Shrinkage-High Strength Concrete

Makoto Tanimura
 Ryoichi Sato
 Yoichi Hiramatsu

Journal of Advanced Concrete
 Technology, , 2 (2007)
 pp. 1-13

Flexural Serviceability Performance with Time of Reinforced Low-Shrinkage High-Strength Concrete Beams and Its Evaluation Method

Makoto Tanimura
 Ryoichi Sato

Proceedings of International Seminar on Durability and Lifecycle Evaluation of Concrete Structures-2007, Organized by Structural Safety and Reliability Project Research Center of Hiroshima University, Higashi-Hiroshima, (2007)
 pp. 131-140

Strength and Shrinkage of Ultra-HSC Cured Internally by Porous Ceramic Waste

Masahiro Suzuki
 Takashi Oh-ura
 Shinya Nakagawa
 Ryoichi Sato

Proceedings of International Seminar on Durability and Lifecycle Evaluation of Concrete Structures-2007, Organized by Structural Safety and Reliability Project Research Center of Hiroshima University, Higashi-Hiroshima, (2007)
 pp. 141-148

Shrinkage Effect on Diagonal Tension Strength and Its New Evaluation Concept of Reinforced HSC Beams

Hajime Kawakane
 Ryoichi Sato

Proceedings of International Seminar on Durability and Lifecycle Evaluation of Concrete Structures-2007, Organized by Structural Safety and Reliability Project Research Center of Hiroshima University, Higashi-Hiroshima, (2007)
 pp. 149-158

Effects of Size and Shrinkage on Shear Strength of Reinforced High Strength Concrete Beams

Hajime Kawakane
 Takuma Ohga
 Ryoichi Sato

Proceedings of International Conference on Civil and Environmental Engineering, Organized by Department of Social and Environmental Engineering, Hiroshima University, Higashi-Hiroshima, (2007)
 pp. 6p. (in CD-ROM)

A Proposal of Simple Design Equations for Evaluating Flexural Serviceability Performance of Reinforced High- and Low-shrinkage HSC Beams

Makoto Tanimura
 Ryoichi Sato

ACI SP-246, (2007)
 pp. 181-200 (in CD-ROM)

Numerical Analysis of the Effect of Shrinkage on Flexural Deformation and Crack Width

Isao Ujike
 Ryoichi Sato
 Ipei Maruyama
 Makoto Tanimura
 Masahiro Suzuki

ACI SP-246, (2007)
 pp. 201-216 (in CD-ROM)

	A O N	o n / No Y
9 Shrinkage Effect on Shear Strength of Reinforced High Strength Concrete Beams	Ryoichi Sato Hajime Kawakane Takuto Kawamoto Ryota Ushio Ippei Maruyama	ACI SP-246, (2007) pp. 261-278 (in CD-ROM)
Resistance to Sulfuric Acid of Mortar Using Acid-Resistant Cement	Kenji Kawai Takeo Ishida Akihiro Sako Shinsuke Higuchi Nobukazu Nito	Proceedings of the 5th International Conference on Concrete under Severe Conditions Environment and Loading, Tours, (2007) pp. 579-588
A Case Study on Environmental Impact Assessment of Precast Concrete Products with a Revegetation Function	Kenji Kawai Akihiro Fujiki	Proceedings of Special Sessions, International Conference on Sustainable Construction Materials and Technologies, Coventry, (2007) pp. 163-176
JSCE Recommendation on Environmental Performance Verification for Concrete Structures (Draft) and Its Application	Kenji Kawai Koji Sakai	Proceedings of the 4th Civil Engineering Conference in the Asian Region, Taipei, (2007) pp. 5p. (in CD-ROM)
Modeling for Decomposition Processes of Friedel's Salt Due to Carbonation	Takeo Ishida Kenji Kawai Ryoichi Sato	Proceedings of the 5th International Conference on Concrete under Severe Conditions Environment and Loading, Tours, (2007) pp. 233-240
A Study on Fixation of Chloride Ion by Cement Hydrates	Takeo Ishida Kenji Kawai Daigo Ichiba	Proceedings of International Conference on Civil and Environmental Engineering, Organized by Department of Social and Environmental Engineering, Hiroshima University, Higashi-Hiroshima, (2007) pp. 6p. (in CD-ROM)
DYNAMIC FOLDING ANALYSIS FOR MULTI-FOLDING STRUCTURES UNDER IMPACT LOADING	Ichiro Ario Andrew Watson	Int. J. of Sound and Vibration, (2007) pp. 591-598
Local/Global Structural Instability based on Multi-Folding Microstructure Theory	Ichiro Ario	Theoretical and Applied Mechanics, (2007) pp. 95-102
Fundamental Analysis on Multi-Folding Behaviour for Flexible Light Structures	Ichiro Ario	The proceedings of Space Structures and Materials (JAXA), (2007) pp. 83-86
Local/Global Structural Instability for the Folding Structure with Multi-Bifurcation	Ichiro Ario Andrew Watson	APCOM'07-EPMESC XI, Third Asian-Pacific Congress on Computational Mechanics in conjunction with Eleventh International Conference on the Enhancement and Promotion of Computational Methods in Engineering and Science, (2007)
9 DYNAMIC POST-BUCKLING ANALYSIS OF THE FULLERENE SYMMETRIC STRUCTURES BASED ON THE BLOCK-DIAGONALIZATION METHOD	I. Ario A. Watson M. Nakazawa	Proc. of International Conference on Steel and Composite Structures, (2007)
Large LOCAL/GLOBAL STRUCTURAL INSTABILITY FOR THE PANTOGRAPHIC TRUSS STRUCTURES	Ichiro Ario Andrew Watson	Proceedings of Engineering and Mathematics, (2007)
Elastic Instability for Pantographic Folding Structures Based on Multi-Folding Microstructure Theory	Ichiro Ario Piotr Pawlowski	Proc. of Smart Structures and Materials, ECCOMAS THEMATIC CONFERENCE, (2007)
Local/Global Structural Instability Based on Multi-Folding Microstructure Theory	I. Ario P. Pawlowski J. Holnicki-Szulc	Proc. of 21st Canadian Congress of Applied Mechanics, Toronto (CANCAM), (2007)

Title	Author(s)	Journal/Conference
Nonlinear Dynamic Snap-through with a Saddle Singular Point on DUFFING's System	Ichiro Ario Andrew Watson	Proc. of International Conference on Computational Methods, International Conference Center Hiroshima, (2007)
Reference Frequencies for the validation of Numerical Solutions to the Transverse Vibrations of Tapered Timoshenko Beam-columns	Andrew Watson Ichiro Ario	Proc. of International Conference on Computational Methods, International Conference Center Hiroshima, (2007)
Ultimate Slip Behavior of Doubled-lined PerFOBOND Rib Connector	Masahiro Himukai Katashi Fujii Kazuhiro Fukada Yuichi Doukan	Innovations in Structural Engineering and Construction, (Proc. of 4th Int. Strut. Eng. and Const. Conf.), (2007) pp. 155-160
Collapse Mode of Plate Girder with Thick Flange under Bending	Mitsuo Irikawa Katashi Fujii Hideharu Nakamura Yauyuki Ogawa	Innovations in Structural Engineering and Construction, (Proc. of 4th Int. Strut. Eng. and Const. Conf.), (2007) pp. 173-178
Experiments on Ultimate Bending Strength of Corroded thin Cylindrical Shells	Kazuaki Hashimoto Tsuneki Kondoh Hideharu Nakamura Katashi Fujii	Innovations in Structural Engineering and Construction, (Proc. of 4th Int. Strut. Eng. and Const. Conf.), (2007) pp. 213-218
An Estimation of Slip Strength of PerFOBOND Rib Connector Considered with Concrete Connections	Katashi Fujii Masahiro Himukai Hatsumi Iwasaki Yuuichi Doukan	Innovations in Structural Engineering and Construction, (Proc. of 4th Int. Strut. Eng. and Const. Conf.), (2007) pp. 447-454
Numerical and Experimental Studies on Active Control of Structures Using Hyper Vision Technology	Junichiro Motoyama Takeshi Nakayama Hideharu Nakamura Idaku Ishii	Innovations in Structural Engineering and Construction, (Proc. of 4th Int. Strut. Eng. and Const. Conf.), (2007) pp. 945-950
Seismic Response Characteristics of Multi-Span Continuous Rigid-Frame Bridge Constructed on Soft Ground	Kazuataka Kinoshita Hideharu Nakamura Katashi Fujii Yusuke Fujiwara	Innovations in Structural Engineering and Construction, (Proc. of 4th Int. Strut. Eng. and Const. Conf.), (2007) pp. 1031-1036
Ultimate Slip Behaviour of Perforated Rib Shear Connectors in a Circular Steel tube	Kentaro Mori Katashi Fujii Masahiro Himukai Yuuichi Doukan	Proc. of the MDCMS 1-Vietnam 1st Int. Conf. on Modern Design, Construction and Maintenance of Structures, (2007) pp. 157-162
Required Measured Points for Evaluating Remaining Strength of Corroded Circular Steel Column	Yoshihiko Tokinori Katashi Fujii Kazuaki Hashimoto Tsuneki Kondoh	Proc. of the MDCMS 1-Vietnam 1st Int. Conf. on Modern Design, Construction and Maintenance of Structures, (2007) pp. 322-329
A practical method of design parameters identification for seismic design of embankments considering heterogeneity of soils	Yoshiya Hata Koji Ichii Takashi Tsuchida Seiji Kano Norihiko Yamashita	International Conference on Civil and Environmental Engineering (ICCEE-2007), (2007)
New Design Method on Bearing Capacity of Rubble Mound of Composite Breakwater with Consideration of Deformation	Tsuchida T Tan Y.X Watabe Y Ishikura K	Soils and Foundations, 2 (2007) pp. 219-235
Mechanical Properties of Lightweight Treated Soil Cured in Water Pressure	Takashi Tsuchida Yi Xin Tang Yoichi Watabe	Soils and Foundations, 4 (2007) pp. 731-748
Local Failures of Embankments during Earthquakes	Seiji Kano Yasushi Sasaki Yoshiya Hata	Soils and Foundations, 6 (2007) pp. 1003-1015

	A o N	o n ' , ' o ' , No Y
<p>A Study on the applicability of the modified Newmark method (Paper No.1307)</p>	<p>Yoshiya Hata Norihiro Yamashita Takashi Tsuchida Seiji Kano</p>	<p>The 4th International Conference on Earthquake Geotechnical Engineering (Thessaloniki, Greece), (2007)</p>
<p>Determination of Shear Strength Parameters of Natural Masado Slopes</p>	<p>Athapaththu A.M.R.G Tsuchida T Suga K</p>	<p>ISOPE 2007 (Lisbon Portugal), (2007) pp. 1205-1212</p>
<p>Numerical analysis on the seismic response of liquefiable ground improved by the prefabricated drains</p>	<p>Seiji Kano Yoshiya Hata Ross W. Boulanger Ronnie Kamai</p>	<p>International Conference on Civil and Environmental Engineering 2007 (ICCEE-2007 Hiroshima Japan), (2007)</p>
<p>Study on Variance of Undrained Shear Strength from Cone Penetration Test and Laboratory Test</p>	<p>Yamane N Fukasawa K Hirabayashi H Tsuchida T</p>	<p>3rd China-Japan Geotechnical Symposium (Chongqing China), (2007) pp. 669-677</p>
<p>Mechanical Properties of Lightweight Treated Soil under Water Pressure</p>	<p>Y.X. Tang T.Tsuchida</p>	<p>International Symposium on Earth Reinforcement (IS-Kyushyu Fukuoka Japan), (2007) pp. 351-356</p>
<p>Movement and washout of fines in sand layer under one-dimensional water pressure change</p>	<p>T Tsuchida K Ichi R Asaumi</p>	<p>The 13th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering (Mumbai India), (2007)</p>
<p>Modeling group decision-making mechanisms in household travel behavior theories and an application</p>	<p>Junyi Zhang Akimasa Fujiwara Masashi Kuwano</p>	<p>Journal of the Eastern Asia Society for Transportation Studies, (2007)</p>
<p>Representing household vehicle holding duration with heterogeneous distributions based on latent class approach</p>	<p>Masashi Kuwano Junyi Zhang Akimasa Fujiwara</p>	<p>Journal of the Eastern Asia Society for Transportation Studies, (2007)</p>
<p>A discrete choice model with dynamic social interaction: Framework and application to household choice of vehicle type</p>	<p>Masashi Kuwano Akimasa Fujiwara Junyi Zhang</p>	<p>World Conference on Transport Research, (2007)</p>
<p>Development of household vehicle holding duration model incorporating multiple-peak distributions</p>	<p>Masashi Kuwano Junyi ZHANG Akimasa FUJIWARA</p>	<p>International Conference on Civil and Environmental Engineering, (2007)</p>
<p>A household time allocation model incorporating weekday-weekend interdependency</p>	<p>Shogo Masuda Junyi ZHANG Masashi Kuwano Akimasa FUJIWARA</p>	<p>International Conference on Civil and Environmental Engineering, (2007)</p>
<p>Influence on rank-size rule for distribution centers under the innovation</p>	<p>Makoto Tsukai</p>	<p></p>

Thk oto TsOkumuj 29.3572 0 Td (en)Tj -61.1796 96 Tto (suk)Tj 18.2213 0 Td (oto)Tj 15.1018 0 Td (Tsukai)Tj 77.9169 30

- Performance comparison of a pilot-scale UASB and DHS system and activated sludge process for the treatment of municipal wastewater
- Isolation of key methanogens for global methane emission from rice paddy fields: a novel isolate affiliated with the clone cluster rice cluster I.
- Pelotomaculum propionicicum* sp. nov., an anaerobic, mesophilic, obligately syntrophic, propionate-oxidizing bacterium.
- Diversity of anaerobic microorganisms involved in long-chain fatty acid degradation in methanogenic sludges as revealed by RNA-based stable isotope probing.
- In situ activity and spatial organization of anaerobic ammonium-oxidizing (Anammox) bacteria in biofilms.
- Development of high-rate anaerobic ammonium-oxidizing (anammox) biofilm reactors.
- Economic evaluation of sewage treatment processes in India.
- Bellilinea caldi stulae* gen. nov., sp. nov. and *Longilinea arvoryzae* gen. nov., sp. nov., strictly anaerobic, filamentous bacteria of the phylum Chloroflexi isolated from methanogenic propionate-degrading consortia.
- Comparison of atmospheric and sea sediment loadings of nitro-PAHs and PAHs in Hiroshima Bay area, Japan.
- Effect of meteorological elements on the behavior of atmospheric polycyclic aromatic hydrocarbons.
- Behavior of PAHs runoff to rivers on rainy days.
- Analysis of microbial interaction in ANAMMOX reactors.
- Modeling of inundation flow in urbanized area using a high-resolution method with cartesian mesh
- M. Tandukar
A. Ohashi
H. Harada
- S. Sakai
H. Imachi
Y. Sekiguchi
A. Ohashi
H. Harada
Y. Kamagata
- H. Imachi
S. Sakai
A. Ohashi
H. Harada
S. Hanada
Y. Kamagata
Y. Sekiguchi
- M. Hatamoto
H. Imachi
Y. Yashiro
A. Ohashi
H. Harada
- T. Kindaichi
I. Tsushima
Y. Ogasawara
M. Shimokawa
N. Ozaki
H. Satoh
S. Okabe
- I. Tsushima
Y. Ogasawara
T. Kindaichi
H. Satoh
S. Okabe
- N. Sato
T. Okubo
T. Onodera
L. Agrawal
A. Ohashi
H. Harada
- T. Yamada
H. Imachi
A. Ohashi
H. Harada
S. Hanada
Y. Kamagata
Y. Sekiguchi
- N. Ozaki
N. Takemoto
T. Kindaichi
- K. Kojima
T. Kindaichi
N. Ozaki
- K. Iwasaki
N. Ozaki
T. Kindaichi
- S. Yuri
T. Kindaichi
N. Ozaki
- Tatsuhiko Uchida
Yoshihisa Kawahara
Yasushi Ito
- Water Research, 12 (2007)
pp. 2697-2705
- Applied and Environmental Microbiology, 13 (2007)
pp. 4326-4331
- International Journal of Systematic and Evolutionary Microbiology, (2007)
pp. 1487-1492
- Applied and Environmental Microbiology, 13 (2007)
pp. 4119-4127
- Applied and Environmental Microbiology, 15 (2007)
pp. 4931-4939
- Water Research, 4 (2007)
pp. 1623-1634
- Journal of Environmental Management, (2007)
pp. 447-460
- International Journal of Systematic and Evolutionary Microbiology, 10 (2007)
pp. 2299-2306
- The 21st International Symposium for Polycyclic Aromatic Compounds, (2007)
pp. 87
- International Conference on Civil and Environmental Engineering ICCEE-2007, (2007)
- International Conference on Civil and Environmental Engineering ICCEE-2007, (2007)
- International Conference on Civil and Environmental Engineering ICCEE-2007, (2007)
- Proc. 32nd IAHR Congress, (2007)

	A o N	o n / No Y
Numerical simulation of local scour process due to submerged jet downstream of a ground sill	Tatsuhiko Uchida Shoji Fukuoka	Proc. 32nd IAHR Congress, (2007)
Velocity distribution under low relative depth in a doubly meandering compound channel	G. M. Tarekul Islam Yoshihisa Kawahara Nobuyuki Tamai	Proc. 9th Int. Summer Symposium, JSCE, (2007) pp. 87-90
Attenuation of flood flow in a doubly meandering compound channel	G. M. Tarekul Islam Yoshihisa Kawahara Nobuyuki Tamai	Proc. 9th Int. Summer Symposium, JSCE, (2007) pp. 91-94
Experimental and numerical study on inundation flows caused by dyke break	Yasushi Ito Tatsuhiko Uchida Yoshihisa Kawahara	Proc. Int. Conf. on Civil and Environmental Engineering-2007, (2007)
Sensitivity analysis of roughness of floodplains on 2-D numerical results to estimate discharge hydrograph	Yu Morishita Tatsuhiko Uchida Yoshihisa Kawahara	Proc. Int. Conf. on Civil and Environmental Engineering-2007, (2007)
Velocity distribution in a doubly meandering compound channel under unsteady flow condition	G. M. Tarekul Islam Yoshihisa Kawahara Nobuyuki Tamai	Proc. Int. Conf. on Civil and Environmental Engineering-2007, (2007)
Flow pattern in a doubly meandering compound channel under steep gradient	G. M. Tarekul Islam Yoshihisa Kawahara Nobuyuki Tamai	Proc. 5th Int. Symp. on Environmental Hydraulics (ISEH-V), (2007)
Primary velocity distribution in a doubly meandering compound channel under steady flow condition	G. M. Tarekul Islam Yoshihisa Kawahara Nobuyuki Tamai	Proc. 5th Int. Symp. on Environmental Hydraulics (ISEH-V), (2007)
The motion of suspended particles in cellular flow	Kiyosi Kawanisi Peter Nielsen Mohmoud F. Maghrebi	Proc. 32nd Congress of IAHR, CD-ROM, (2007)
Measurement of concentration and size of suspended sediment using an acoustic Doppler velocimeter	Kiyosi Kawanisi Tomoya Yokoyama Mohmoud F. Maghrebi	Proc. 32nd Congress of IAHR, CD-ROM, (2007)
Discharge estimation in tidal rivers with partially reverse flow	Mohammad Givehchi Mohmoud F. Maghrebi Kiyosi Kawanisi	Proc. 32nd Congress of IAHR, CD-ROM, (2007)
Influence of the Kuroshio stream path variation on current fields in the Seto Inland Sea	Katsuaki Komai Tadashi Hibino Yasushi Matsunaga	Proceedings of the 14th PAMS/JECCSS Workshop, (2007) pp. 244-247
The groundwater flow mechanism in the Ota River estuary and the formation of high turbidity layer in Hiroshima Bay	Seiji Hanabata Katsuaki Komai Shinya Nakashita Tadashi Hibino Masamitsu Mizuno	Proceedings of the Fourth International Conference on Asian and Pacific Coasts, (2007) pp. 968-979
Characteristics of Groundwater Flow and Tidal Flat Formed by River Structures in the Ota River Estuary	Shinya Nakashita Tadashi Hibino Katsuaki Komai	Proceedings of International Conference on Civil and Environmental Engineering, (2007)
A settling model of suspended organic matter for a coastal region	Hisaya Nishimura Masataka Imagawa Katsuaki Komai	Proceedings of International Conference on Civil and Environmental Engineering, (2007)
The Characteristics of Organic Matters Circulation in Hiroshima Bay	Nakashita Shinya Kyung-hoi Kim Tadashi Hibino Yasushi Matsunaga	Proceedings of the Third International Conference on Asian and Pacific Coasts, (2007) pp. 2051-2062
Sea Level Relation at Two Open Sea Boundaries of The Seto Inland Sea	Kyung-hoi Kim Tadashi Hibino Yasushi Matsunaga	Proceedings of the Third International Conference on Asian and Pacific Coasts, (2007) pp. 744-757
A Strip Method for a Laterally Drifting Ship in Waves	Faizul Amri Adnan Hironori Yasukawa	J. Marine Science and Technology, 3 (2007) pp. 139-149

A	o N	o n No Y
Maneuvering Simulations of Tow and Towed Ships	Hironori Yasukawa Nobuaki Nakamura Noritaka Hirata Koh Kho King	International Conference on Towing & Salvage of Disabled Tankers, (2007) pp. 73-82
A Coupled Eulerian-Lagrangian Method for Free Surface Problems	Hidemi Mutsuda Odd M Faltinsen	Proc. of International Conference on Violent Flows (VF-2007), (2007) pp. 227-234 FISITA Transactions 2006, (2007)
High Performance LES on Earth Simulator: A Challenge for Vehicle Aerodynamics	Makoto Tsubokura Kozo Kitoh Nobuyuki Oshima Takuji Nakashima Huilai Zhang Keji Onishi Toshio Kobayashi Simone Sebben	Proc. of 5th Joint ASME/JSME Fluids Engineering Conference, (2007) Proc. of International Gas Turbine Congress 2007 Tokyo, (2007)
LARGE-EDDY SIMULATION OF A GAS-TURBINE COMBUSTOR USING 2-SCALAR FLAMELET APPROACH	Takuji Nakashima Nobuyuki Oshima	Proc. of 5th Joint ASME/JSME Fluids Engineering Conference, (2007)
Numerical prediction of the combustion flow in a premixed combustor using LES and a Two-scalar flamelet approach	Takuji Nakashima Nobuyuki Oshima Masashi Wakita	Proc. of International Gas Turbine Congress 2007 Tokyo, (2007)
CURRENT STATUS ON HIGH PERFORMANCE COMPUTING FOR VEHICLE AERODYNAMICS USING LARGE EDDY SIMULATION	Makoto Tsubokura Takuji Nakashima Nobuyuki Oshima Kozo Kitoh Huilai Zhang Keiji Onishi Toshio Kobayashi	Proc. of 5th Joint ASME/JSME Fluids Engineering Conference, (2007)
High Performance Computing for the Assessment of Unsteady Aerodynamic Forces on Vehicles Using Large Eddy Simulation	Makoto Tsubokura Takuji Nakashima Nobuyuki Oshima Kozo Kitoh Huilai Zhang Keiji Onishi Toshio Kobayashi	Progress in Vehicle Aerodynamics and Thermal Management V, (2007) pp. 83-98
Large Eddy Simulation of Unsteady Flow around a Formula Car on Earth Simulator	Makoto Tsubokura Kozo Kitoh Nobuyuki Oshima Takuji Nakashima Huilai Zhang Keiji Onishi Toshio Kobayashi	Proc. of SAE 2007 World Congress, (2007)
Large Eddy Simulation on the Underbody Flow of the Vehicle with Semi-Complex Underbody Configuration	Kozo Kitoh Shouta Chatani Nobuyuki Oshima Takuji Nakashima Simone Sebben	Proc. of SAE 2007 World Congress, (2007)
COMPUTATIONAL VISUALIZATION OF UNSTEADY FLOW AROUND VEHICLES USING HIGH PERFORMANCE COMPUTING	Makoto Tsubokura Toshio Kobayashi Takuji Nakashima Takahide Nouzawa Takaki Nakamura Huilai Zhang Keiji Onishi Nobuyuki Oshima	Proc. of 9th Int. Symp. Fluid Control, Measurement and Visualization, (2007)
Image features and wave height measurements by satellite SAR data around the coral reef	Sakuno Yuji Oomae Kazuhiro	Proc. 14th PAMS/JECSS Workshop, Hiroshima, (2007)
Estimation of anoxic water distribution in Hiroshima Bay using satellite thermal image	Sakuno Yuji	Journal of Coastal Research, SI 50 (Proceedings of the 9th International Coastal Symposium), (2007) pp. 1023-1028

	A O N	o n / No Y
9 Accurate imaging of 3D tidal current structures of Hiroshima Bay by the coastal acoustic tomography data	Ju Lin Arata Kaneko Hong-Quang Nguyen Noriaki Gohda Huan Wang	Proc. 14th PAMS/JECSS Workshop, (2007) pp. 248-251
9 Coastal acoustic tomography experiment in a narrow channel	Naokazu Taniguchi Arata Kaneko Yudi Adiyawarman Noriaki Gohda Yoshio Takasugi	Proc. 14th PAMS/JECSS Workshop, (2007) pp. 149-152
99 Annual variation of the southern boundary current in the Banda Sea	Fadli Syamsudin Hendrick van Aken Arata Kaneko Yuji Kashino	Proc. 14th PAMS/JECSS Workshop, (2007) pp. 29-33
A numerical study of the Bifurcation Current and the Eastward Current in the Bungo Channel, Japan	Masazumi Arai	Proc. 14th PAMS/JECSS Workshop, (2007) pp. 238-241
Sea level variations around Honshu, Japan.	Hideo Nakajima	Proc. 14th PAMS/JECSS Workshop, (2007) pp. 139-140
Structural Safety Assessment of Pontoon-Type VLFS in Waves Considering Damage to the Break Water	Masahiko Fujikubo Kazuhiro Yamamura	Proc. of International Maritime-Port Technology and Development Conference, (2007) pp. 373-379
Buckling/Ultimate Strength of Ship Bottom Plating with Staggered Carling under Thrust	Shoichi Ishimatsu Masahiko Fujikubo Yasuyuki Ohtsuki	Proc. of The 21st Asian Technical Exchange and Advisory Meeting on Marine Structure, (2007) pp. 135-142
Collapse Analysis of Ship's Double Bottom Structures with ISUM	Kinya Ishibashi Masahiko Fujikubo Tetsuya Yao	Proc. of International Conference on Computational Methods in Marine Engineering, (2007) pp. 59-62
Collapse Analysis of Very Large Floating Structure in Waves Using Idealized Structural Unit Method	Masahiko Fujikubo Olaru V, Daniel	Proc. of International Conference on Computational Methods in Marine Engineering, (2007) pp. 63-66
An Adaptive Wavelet Finite Element Method with High-Order B-spline Basis Functions	Satoyuki Tanaka Hiroshi Okada	Key Engineering Materials, (2007)
An Adaptive B-spline Wavelet Galerkin Method for the Analyses of Elastostatics	Satoyuki Tanaka Hiroshi Okada	Proceedings of International Conference on Computational Methods 2007 (ICCM2007), (2007) pp. 307
An Adaptive Wavelet Finite Element Method with High-Order B-spline Basis Functions	Satoyuki Tanaka Hiroshi Okada	Proceedings of 10th International Conference on The Mechanical Behavior of Materials, (2007)
9 An Adaptive B-spline Wavelet Galerkin Method for the Elastostatic Problems	Satoyuki Tanaka Hiroshi Okada	Proceedings of 9th US National Congress on Computational Mechanics, (2007)
B-spline Wavelet Galerkin Method for the Problems of Elastostatics	Satoyuki Tanaka Hiroshi Okada	Proceedings of International Conference on Computational & Experimental Engineering and Sciences 2007 (ICCES'07), (2007) pp. 1403-1409
Eulerian Formulation using Stabilized Finite Element Method for Large Deformation Solid Dynamics	Shigenobu Okazawa, Kazuo Kashiya Yasuhisa Kaneko	International Journal for Numerical Methods in Engineering, (2007) pp. 1544-1559
Full Eulerian formulation for solid-uid interaction	Shigenobu Okazawa Kenji Nakao Rafael Doig	Conference abstracts of International Conference on Computational Methods, (2007) pp. 281

<p>Bifurcation Analyses for Ductile Necking Behavior</p> <p>Application fields of a multi-material Eulerian finite element method</p>	<p>Shigenobu Okazawa</p> <p>Rafael Doig Patruick Keading Shigenobu Okazawa</p>	<p>9th U.S. National Congress on Computational Mechanics, (2007)</p> <p>Conference abstracts of International Conference on Computational Methods, (2007) pp. 16</p>
<p>Modification of Finite Element Solution for Complicated Structures by Post Processing Technique based on Mechanics</p>	<p>Mitsuru Kitamura Hideomi Ohtsubo</p>	<p>Computational Methods, Springer, 1 (2007) pp. 597-608</p>
<p>Neural Network System with Lead Factor as Alternative Method for Structure Analysis by Finite Element Method</p>	<p>Mitsuru Kitamura Kunihiro Hamada Kaharuddin Djenodo</p>	<p>Computational Methods, Springer, 1 (2007) pp. 867-875</p>
<p>Multi-step Optimization Method and its Application to the Design of Mid-ship Section of Ship Structure</p>	<p>Mitsuru Kitamura Kunihiro Hamada Akihiro Takezawa Tetsuya Uedera Hiroki Suzuki Kouhei Kanaikari Toshio Tanigawa</p>	<p>Proceedings of Third Asian-Pacific Congress on Computational Mechanics in conjunction with Eleventh International Conference on the Enhancement and Promotion of Computational Methods in Engineering and Science, (2007)</p>
<p>A Study on Size and Thickness Optimizations for the Bottom Structure of Ship</p>	<p>Mitsuru Kitamura Kunihiro Hamada Tetsuya Uedera Akihiro Takezawa Takahiro Takaki Masayuki Tomochika Hiroshi Yamamoto</p>	<p>Proceedings of Third Asian-Pacific Congress on Computational Mechanics in conjunction with Eleventh International Conference on the Enhancement and Promotion of Computational Methods in Engineering and Science, (2007)</p>
<p>Shape optimization of ship structure by multiple point constraint and individual mesh sub-division techniques</p>	<p>Mitsuru Kitamura Kunihiro Hamada Takahiro Takaki Kunpei Kanaya</p>	<p>Proceedings of Second International Conference on Computational Methods, (2007)</p>
<p>Development of optimal structure design system for mid-ship section</p>	<p>Mitsuru Kitamura Kunihiro Hamada Hiroki Suzuki Kanae Yano</p>	<p>Proceedings of Second International Conference on Computational Methods, (2007)</p>
<p>A study on Transportation Network in Greater Mekong Subregion</p>	<p>Punayangkool, K. Hamada, K. Kose, K.</p>	<p>Proceedings of the 21th Asian Technical Exchange and Advisory Meeting on Marine Structure, (2007) pp. 357-364</p>
<p>Structural optimization based on topology optimization techniques using frame elements considering cross-sectional properties</p>	<p>Akihiro Takezawa Shinji Nishiwaki Kazuhiro Izui Masataka Yoshimura</p>	<p>Structural and Multi-disciplinary Optimization, 1 (2007) pp. 41-60</p>
<p>A Conceptual Design Support Methodology Based On Structural Optimization Techniques Using Function-Oriented Elements</p>	<p>Akihiro Takezawa Shinji Nishiwaki Kazuhiro Izui Masataka Yoshimura Kogiso Nozomu</p>	<p>Proceedings of ICED'07: International Conference On Engineering Design 71, (2007)</p>
<p>Structural Optimization Method Using Discrete Elements for Multi-Band-Gap Structures</p>	<p>Akihiro Takezawa Katsuya Mogami Shinji Nishiwaki Kazuhiro Izui Masataka Yoshimura Kogiso Nozomu</p>	<p>Proceedings of Third Asian-Pacific Congress on Computational Mechanics in conjunction with Eleventh International Conference on the Enhancement and Promotion of Computational Methods in Engineering and Science, (2007)</p>
<p>Control factors of spatial variation of long-period strong ground motions in the Yu-futsu sedimentary basin, Hokkaido, during Mw 8.0 2003 Tokachi-oki, Japan, Earthquake</p>	<p>K. Hatayama T. Kanno K. Kudo</p>	<p>Bulletin of the Seismological Society of America, 9 (2007) pp. 1308-1323</p>
<p>Seismic Performance of Reinforced Concrete Columns Retro fitted with Carbon Fiber Reinforced Polymer Strips</p>	<p>Hideo Araki Ryoichi Sato Kenji Kabayama Masanori Nakata</p>	<p>Proceeding of the 6th International Conference on FracMCoS, (2007) pp. 1121-1129</p>

	A	o	N	o	n	o	n	o	Y
A Study on the Water and Energy Consumption in Nursing Homes for the Elderly	Daisaku Nishina Saburo Murakawa Hiroshi Takata Takanori Itai								Proceedings of the CIB-W62 International Symposium on Water Supply and Drainage for Buildings, (2007) pp. 3-13
A Study on Bathing Behavior and Hot Water Usage in Nursing Homes for the Aged	Akiko Takaaze Saburo Murakawa Daisaku Nishina Takanori Itai								Proceedings of the CIB-W62 International Symposium on Water Supply and Drainage for Buildings, (2007) pp. 15-24
A Study on the Loads of Hot Water Consumption in Houses with the Hot Water Storage Tank System (Part 1) An Analysis of the Hot Water Usage and the Loads of Hot Water Consumption	Naoki Yamamoto Saburo Murakawa Hiroshi Takata Hiroki Kitayama Yasuhiro Hamada Minako Nabeshima								Proceedings of the CIB-W62 International Symposium on Water Supply and Drainage for Buildings, (2007) pp. 39-47
A Study on the Loads of Hot Water Consumption in Houses with the Hot Water Storage Tank System (Part 2) Calculation for the Loadas of Hot Water Consumption	Hiroshi Takata Saburo Murakawa Naoki Yamamoto Hiroki Kitayama Yasuhiro Hamada Minako Nabeshima								Proceedings of the CIB-W62 International Symposium on Water Supply and Drainage for Buildings, (2007) pp. 49-60
Calculation for the Cold and Hot Water Demands in the Guest Rooms of City Hotel	Saburo Murakawa Yasuo Koshikawa Hiroshi Takata Atsushi Tanaka								Proceedings of the CIB-W62 International Symposium on Water Supply and Drainage for Buildings, (2007) pp. 73-85
Study on the Corrosion of Steel and Zinc with Flow Velocity and Corrosion Control by the Vacuum Membrane	Toshihiro Yamate Saburo Murakawa								Proceedings of the CIB-W62 International Symposium on Water Supply and Drainage for Buildings, (2007) pp. 343-355
Present State and Future Challenge on Installaiton Number of the Sanitary	Hiroyuki Kose Yoshihisa Nagao Yuri Nakagawa Saburo Murakawa								Proceedings of the CIB-W62 International Symposium on Water Supply and Drainage for Buildings, (2007) pp. 369-380
Dynamism of the Hiroshima Peace Memorial as Time and Space Aspects of Kansei	Shoichiro Sendai								International Conference on Kansei Engineering and Emotion Research 2007, (2007)
The Oral Explanation of Peace and the Change of Landscape after the Second World War in Hiroshima	Shoichiro Sendai Hisa Yokoyama								International Society for Universal Dialogue (ISUD), (2007)
Development of Hiroshima Castle as Peace Facility	Shoichiro Sendai								International Institute for Peace through Tourism, (2007)

F. Research Center for Nanodevices and Systems

	A	o	N	o	n	o	n	o	Y
Electrical Properties of TiO/LaTiO/TiO Stacked Thin Films	H. Hara M. Tanioku M. Yamato T. Kikkawa								Ext. Abst. of Inter. Conf. on Solid State Devices and Materials, (2007) pp. 1148-1149
SrNbO ₃ /Nb ₂ O ₅ Laminated Thin Films for Gigabit DRAM Capacitor Cell	M. Yamato H. Hara M. Tanioku T. Kikkawa								Abst. of 2007 Material Research Society Fall Meeting, (2007) pp. 302

Characteristics of TiO ₂ /Al ₂ O ₃ /TiO ₂ Sandwich Structures for Next Generation DRAM Capacitor Cell	H. Hara M. Tanioku M. Yamato T. Kikkawa	Abst. of 2007 Material Research Society Fall Meeting, (2007) pp. 302
A Single-chip Gaussian Monocycle Pulse Transmitter using 0.18 μm CMOS Technology for Intra/Interchip UWB Communication	T. Kikkawa R. K. Saha N. Sasaki K. Kimoto	Ext. Abst. of the Fifth Hiroshima International Workshop on Nanoelectronics for Terabit Information Processing, (2007) pp. 58-61
A Single-chip Ultra-Wideband Receiver using Silicon Integrated Antennas for Inter-chip Wireless Interconnection	N. Sasaki M. Fukuda M. Nitta K. Kimoto T. Kikkawa	Ext. Abst. of the Fifth Hiroshima International Workshop on Nanoelectronics for Terabit Information Processing, (2007) pp. 136-139
On-Chip Wireless Signal Transmission using Silicon Integrated Antennas	K. Kimoto M. Nitta N. Sasaki T. Kikkawa	Ext. Abst. of the Fifth Hiroshima International Workshop on Nanoelectronics for Terabit Information Processing, (2007) pp. 140-143
UWB Transmission Characteristics of Bow-tie Antennas on Si	S. Kubota X. Xiao K. Kimoto T. Kikkawa	Proc. of 2007 IEEE Antennas and Propagation Society International Symposium, (2007) pp. 769-772
Inter-chip Transmission Characteristics of Si On-chip Integrated Antennas	K. Kimoto N. Sasaki M. Nitta T. Kikkawa	Proc. of 2007 IEEE Antennas and Propagation Society International Symposium, (2007) pp. 2514-2517
Tumor Detection in A Multilayer Breast Structure	X. Xiao S. Kubota T. Kikkawa	Proc. of 2007 International Symposium on Antennas and Propagation, (2007) pp. 92
UWB Transmission Characteristics of Bow-tie Antennas on Si	S. Kubota X. Xiao K. Kimoto T. Kikkawa	Ext. Abst. of the 2007 International Conference on Solid State Devices and Materials, (2007) pp. 498-499
UWB Imaging for Early Breast Cancer Detection by Confocal Algorithm	X. Xiao T. Kikkawa	Ext. Abst. of the 2007 International Conference on Solid State Devices and Materials, (2007) pp. 976-977
Scaling Characteristics of Si On-chip Integrated Antennas	K. Kimoto N. Sasaki T. Kikkawa	Ext. Abst. of the 2007 International Conference on Solid State Devices and Materials, (2007) pp. 1070-1071
Electrical Characteristics of Mesoporous Pure-Silica-Zeolite Film	T. Seo T. Yoshino Y. Cho N. Hata T. Kikkawa	Japanese Journal of Applied Physics, 46, 9A (2007) pp. 5742-5746
Plasma-Enhanced Co-Polymerization of Organo-siloxane and Hydrocarbon for Low-k/Cu Interconnects	Jun Kawahara Akinori Nakano Nobutaka Kunimi Keizo Kinoshita Yoshihiro Hayashi Akira Ishikawa Yutaka Seino Tetsuro Ogata Yuzuru Sonoda Takenobu Yoshino Takashi Goto Syozo Takada Hidenori Miyoshi Hisanori Matsuo Takamaro Kikkawa	Japanese Journal of Applied Physics, 46, 7A (2007) pp. 4064-4069

	A O N	o n / No Y
Plasma-Enhanced-Polymerization Thin-Film as a Drift Barrier for Cu Ions	Takenobu Yoshino Nobuhiro Hata Jun Kawahara Yoshinori Shishida Takamaro Kikkawa	Japanese Journal of Applied Physics, 4B (2007) pp. 1951-1954
CoWP as a Drift Barrier for Cu Ions Studied by Electric Measurements	Takenobu Yoshino Masashi Shimoyama Nobuhiro Hata Shinich Chikaki Ryotaro Yagi Yoshinori Shishida Jun Kawahara Takamaro Kikkawa	J. Electrochem., 8 (2007) pp. H672-H674
Recovery Processes of CMP-Induced Damages for Copper/Porous Silica Damascene Interconnects	A. Ishikawa Y. Shishida T. Yamanishi N. Hata T. Nakayama N. Fujii H. Tanaka H. Matsuo T. Kikkawa	J. Electrochem., 5 (2007) pp. H400-H405
Effect of Bridging Groups of Precursors on Modulus Improvement in Plasma-Enhanced Copolymerized Low-k Films	Jun Kawahara Nobutaka Kunimi Akinori Nakano Keizo Kinoshita Yoshihiro Hayashi Masashi Komatsu Yutaka Seino Rie Ichikawa Yuko Takasu Takamaro Kikkawa	J. Electrochem., 3 (2007) pp. H198-H201
An Organic Low-k Film Deposited by Plasma-Enhanced Copolymerization	Jun Kawahara Nobutaka Kunimi Keizo Kinoshita Akinori Nakano Masashi Komatsu Yutaka Seino Takamaro Kikkawa	J. Electrochem., 3 (2007) pp. H147-H152
Carbon loss induced by plasma beam irradiation in porous silica films	K. Kurihara T. Ono K. Kohmura H. Tanaka N. Fujii N. Hata T. Kikkawa	Journal of Applied Physics, 11 (2007) pp. 113301-113301-6
Copper barrier properties of a low-dielectric-constant organocyclosiloxane prepared by plasma-enhanced polymerization	Takenobu Yoshino Nobuhiro Hata Jun Kawahara Takamaro Kikkawa	Applied Physics Letters, 9, 18 (2007) pp. 182111-1-182111-3
Novel organosiloxane vapor annealing process for improving properties of porous low-k films	K. Kohmura H. Tanaka S. Oike M. Murakami N. Fujii S. Takada T. Ono Y. Seino T. Kikkawa	Thin Solid Films, 12 (2007) pp. 5019-5024
Effects of vapor phase transport synthesis on the properties of porous silica films	Y. Cho T. Seo K. Kohmura T. Kikkawa	Ext. Abst. of Inter. Conf. on Solid State Devices and Materials, (2007) pp. 382-383

Effects of Silylation on Electrical and Mechanical Characteristics of Mesoporous Pure Silica Zeolite Films	T. Seo T. Yoshino N. Ohnuki Y. Seino N. Hata T. Kikkawa	Ext. Abst. of Inter. Conf. on Solid State Devices and Materials, (2007) pp. 928-929
Issues for Pd ₂ Si and NiSi Fully Silicided Gate Formation	M. Tanaka T. Hosoi K. Shibahara	Conf. Digest of The 2007 International Meeting for Future of Electron Devices, (2007) pp. 39-41
Formation Kinetics and Workfunction Tuning of Pd ₂ Si Fully Silicided Metal Gates	T. Hosoi K. Sano K. Hosawa K. Shibahara	Jpn. J. Appl. Phys., 4B (2007) pp. 1929-1933
Gate-Extension Overlap Control by Sb Tilt Implantation	K. Shibahara N. Maeda	IEICE Trans. Electron., C, 5 (2007) pp. 973-977
Dual-Pearson Parameter Extraction for In Tilt Implantation	K. Shibahara T. Eto T. Fukunaga	Ext. Abs. the 7th International Workshop on Junction Technology 2007 (IWJT'07), (2007) pp. 25-26
Study of Stress from Discontinuous SiN Liner for Fully-Silicided Gate Process	Tomohiro Yamashita Yukio Nishida Takeshi Okagaki Yoshihiro Miyagawa Jiro Yugami Hidekazu Oda Yasuo Inoue Kentaro Shibahara	Ext. Abst. of the 2007 Int. Conf. on Solid State Devices and Materials (SSDM'07), (2007) pp. 870-871
In-Situ TEM Observation of Silicide Formation and Dopant Segregation in Ni Fully Silicided Gates	Takuji Hosoi Kentaro Shibahara Minghui Song Kazuo Furuya	Proc. of Fifth Int. Symp. on Control of Semiconductor Interfaces (ISCSI-V), (2007) pp. 147-148
Transient Response in Monolithic Mach-Zehnder Optical Modulator using (Ba,Sr)TiO ₃ Film Sputtered at Low Temperature on Silicon	M. Suzuki K. Nagata Y. Tanushi S. Yokoyama	Jpn. J. App. Phys., 4B (2007) pp. 2462-2466
Compact Multi-Mode Optical Ring Resonators for Interconnection on Si Chips	Y. Tanushi S. Yokoyama	Jpn. J. App. Phys., 4B (2007) pp. 2364-2368
Imprint Property of Optical Mach-Zehnder Interferometer Using Sputter Deposited (Ba,Sr)TiO ₃ at Low Temperature	M. Suzuki K. Nagata S. Yokoyama	Abst. Int. Conf. on Solid State Devices and Materials (SSDM2007), (2007) pp. 116-117
Photoelastic Effect in Silicon Ring Resonator	Y. Amemiya Y. Tanushi T. Tokunaga S. Yokoyama	Abst. Int. Conf. on Solid State Devices and Materials (SSDM2007), (2007) pp. 282-283
Magneto-optic Effect in Amorphous Bi ₃ Fe ₅ O ₁₂ Waveguide Sputtered at Room Temperature	H. Taura Y. Shishido Y. Tanushi S. Yokoyama	Abst. Int. Conf. on Solid State Devices and Materials (SSDM2007), (2007) pp. 284-285
Improvement of Mobility and Negative Bias Temperature Instability in Metal-Oxide-Semiconductor Field-Effect Transistors with Atomic-Layer-Deposited Si-nitride/SiO ₂ Stack Dielectrics	Shiyang Zhu Anri Nakajima Takuo Ohashi Hideharu Miyake	Jpn. J. Appl. Phys., 4B (2007) pp. 1874-1878
Ar Annealing for Suppression of Gate Oxide Thinning at Shallow Trench Isolation Edge	Takuo Ohashi Taishi Kubota Anri Nakajima	IEEE Electron Device Lett., 7 (2007) pp. 562-564
Electron detrapping characteristics in positive bias temperature stressed n-channel metal-oxide-semiconductor field-effect transistors with ultrathin HfSiON gate dielectrics	Shiyang Zhu Anri Nakajima	Appl. Phys. Lett., 3 (2007) pp. 033501-033503

	A O N	o n ' o ' No Y
9 Electrical Characteristics of Si Single-Electron Transistor Based on Multiple Islands	Kensaku Ohkura Tetsuya Kitade Anri Nakajima	Jpn. J. Appl. Phys., 9B (2007) pp. 6233-6236
Atomic Layer Deposition of HfO ₂ and Si Nitride on Ge Substrates	Shiyang Zhu Anri Nakajima	Jpn. J. Appl. Phys., 12 (2007) pp. 7699-7701
Mechanism of Static and Dynamic Bias Temperature Instability in p- and n-MOSFETs	Anri Nakajima Shiyang Zhu	the Ninth International Symposium on Silicon Nitride, Silicon Dioxide Thin Insulating Films and Emerging Dielectrics, (2007)
Si single-electron memory having in-plane dot with double gates	Tomo Fujiaki Kensaku Ohkura Anri Nakajima	the 2007 International Microprocesses and Nanotechnology Conference (MNC 2007), (2007) pp. 122-123
Real-Time Huffman Encoder with Pipelined CAM-Based Data Path and Code-Word-Table Optimizer	T. Kumaki Y. Kuroda M. Ishizaki T. Koide H.J. Mattausch H. Noda K. Dosaka K. Arimoto K. Saito	IEICE Trans. on Information & Systems, 9, (2007) pp. 334-345
Scalable FPGA/ASIC Implementation Architecture for Parallel Table-lookup Coding Using Multi-ported Content Addressable Memory	T. Kumaki Y. Kono M. Ishizaki T. Koide H.J. Mattausch	IEICE Trans. on Information & Systems, 9, (2007) pp. 346-354
A 2-stage-pipelined 16 Port SRAM with 590 Gbps Random Access Bandwidth and Large Noise Margin	K. Johguchi Y. Mukuda K. Aoyama H.J. Mattausch T. Koide	IEICE Electronics Express, 2 (2007) pp. 21-25
Mixed Digital-Analog Associative Memory Enabling Fully-Parallel Nearest Euclidean Distance Search	M.A. Abedin Y. Tanaka A. Ahmadi T. Koide H.J. Mattausch	Jpn. J. Appl. Phys., 4B (2007) pp. 2231-2237
Realization of K-Nearest-Matches Search Capability in Fully-Parallel Associative Memories	M.A. Abedin Y. Tanaka A. Ahmadi S. Sakakibara T. Koide H.J. Mattausch	IEICE Trans. on Fundamentals, 9, A, 6 (2007) pp. 1240-1243
Acceleration of DCT Processing with Massive-Parallel Memory-Embedded SIMD Matrix Processor	T. Kumaki M. Ishizaki T. Koide H.J. Mattausch Y. Kuroda H. Noda K. Dosaka K. Arimoto K. Saito	IEICE Trans. on Information & Systems, 9, (2007) pp. 1312-1315
4-Port Unified Data/Instruction Cache Design with Distributed Crossbar and Interleaved Cache-Line Words	K. Johguchi H.J. Mattausch T. Koide T. Hironaka	IEICE Trans. on Electronics, 9, C (2007) pp. 2157-2160

HiSIM231: Toward Solving the Speed versus Accuracy Crisis in Circuit Simulation

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Proceedings of the International Workshop on Compact Modeling (IWCM2006), (2007)
pp. 93-96

Developing a Reliable Learning Model for Cognitive Classification Tasks Using an Associative Memory

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Proceedings of the 2007 IEEE Symposium on Computational Intelligence in Image and Signal Processing (CIISP2007), (2007)
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33rd European Solid-State Circuits Conference (ESSCIRC2007), MOS-AK Workshop on Compact Modeling for Nano CMOS/SOI Technologies, (2007)

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14th Workshop on Synthesis and System Integration of Mixed Information Technologies (SASIMI2007), (2007)
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Area Efficient Fully Parallel Associative Memory with Fast Winner Search Capability

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M. Ishizaki
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14th Workshop on Synthesis and System Integration of Mixed Information Technologies (SASIMI2007), (2007)
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K. Johguchi
H.J. Mattausch
T. Koide

14th Workshop on Synthesis and System Integration of Mixed Information Technologies (SASIMI2007), (2007)
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Published Books

Book Title	Author(s)	Publisher	Year
Proceedings of 2007 International Workshop on Recent Advances in Stochastic Operations Research	T. Dohi S. Osaki K. Sawaki	Systems Reliability Engineering Laboratory, Department of Information Engineering, Hiroshima University	2007
Nanoparticle Technology Handbook	Kikuo Okuyama	Elsevier	2007
Polymeric Microspheres	Tetsuya Yamamoto K. Higashitani	Kyoto University Press	2007
Nanoparticle Technology Handbook	Manabu Shimada	Elsevier	2007
Production of Allelochemicals by an Aquatic Plant, <i>Myriophyllum spicatum</i> L. Allelopathy: New Concepts and Methodology (Fujii Y. and Hiradate S. eds.)	S. Nakai	Science Publishers, New Hampshire	2007
The Management and Measurement of Infrastructure; Performance, Efficiency and Innovation	Makoto Tsukai Ryo Ejiri Kiyoshi Kobayashi Makoto Okumura	Edwad Elger	2007
Flow and Sediment Transport in Compound Channels	Yoshihisa Kawahara	Belkema Press	2007
Very Large Floating Structures	Chien Ming Wang Eiichi Watanabe Tomoaki Utsunomiya Masahiko Fujikubo Shigeru Ueda Tetsuya Hiraishi Hideyuki Suzuki Shigeo Ohmatsu	Taylor & Francis	2007
Silicon Nitride, Silicon Dioxide, and Emerging Dielectrics 9	Anri Nakajima Shiyang Zhu	The Electrochemical Society	2007

Registered Patents

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