

**Vol. 57, Supplement**

**(Only Data in English)**

**Bulletin of the Graduate School of Engineering  
Hiroshima University**

**March, 2009**

**CONTENTS**

Published Papers .....	S 1
Published Books .....	S 53
Registered Patents .....	S 54

# Contents

<b>Published Papers</b>	<b>1</b>
Mechanical System Engineering . . . . .	1
Artificial Complex Systems Engineering . . . . .	12
Information Engineering . . . . .	20
Chemistry and Chemical Engineering . . . . .	28
Social and Environmental Systems Engineering . . . . .	36
Research Institute for Nanodevice and Bio Systems . . . . .	46
<b>Published Books</b>	<b>53</b>
<b>Registered Patents</b>	<b>54</b>

---

## Published Papers

---

### A. Mechanical System Engineering

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>A1</b> Cracking and local melting in Mg-alloy and Al-alloy during friction stir spot welding	M. Yamamoto K. Shinozaki A. Gerlich T.H. North	Welding in the World, <b>52</b> , 9/10 (2008)
<b>A2</b> Selection of Welding Parameter during Friction Stir Spot Welding	A. Gerlich M. Yamamoto T. Shibayanagi T. H. North	SAE-2008-01-0146, (2008)
<b>A3</b> Prediction of Hot Cracking Initiation during Dissimilar Laser Welding	Peng Wen Kenji Shinozaki Motomichi Yamamoto Yusuke Kouno Yasutaka Senda	2008 KWJS Asian Symposium : Trend of Welding Mechanics, (2008)
<b>A4</b> Cracking in dissimilar Mg alloy friction stir spot welds	M. Yamamoto A. Gerlich T. H. North K. Shinozaki	Science Technology of Welding and Joining, <b>13</b> , 7 (2008) pp. 583-592
<b>A5</b> Study of Solidification Cracking in Laser Dissimilar Welded Joint by using In-situ Observation and 3D FEM-Analysis	Peng Wen Motomichi Yamamoto Yasutaka Senda Tomoko Tamura Kenji Shinozaki Norio Nemoto	IIW-DOC-IX-H-697-08, (2008)
<b>A6</b> Low-pressure infiltration of molten metal to porous FeCrSi preform	Y. B. Choi K. Matsugi G. Sasaki S. Kondoh	Materials Transactions, <b>49</b> , 2 (2008) pp. 390-392
<b>A7</b> Aging behaviors in AZ91D/Al18B4O33w composite fabricated by squeeze casting	W.G. Wang K. C. Chang K. Matsugi G. Sasaki	Materials Transactions, <b>49</b> , 3 (2008) pp. 637-642
<b>A8</b> Effects of aging treatment on the bending strength in AZ91D/ Al18B4O33w composite	W.G. Wang W. L. Li K. C. Chang K. Matsugi G. Sasaki	Materials Transactions, <b>49</b> , 4 (2008) pp. 850-853
<b>A9</b> Melting and solidification of TiNi alloys by cold crucible levitation method, and evaluation of their characteristics	K. Matsugi H. Mamiya Y. B. Choi G. Sasaki O. Yanagisawa	International Journal of Cast Metals Research, <b>21</b> , 1-4 (2008) pp. 156-161
<b>A10</b> Effect of fiber surface structure on interfacial reaction for vapor grow carbon fiber reinforced aluminum matrix composite	G. Sasaki K. C. Chang Y. B. Choi K. Mastugi	Proc. of US-Japan Conf. on Composite Materials 2008, (2008) pp. HTC-6-1-HTC-6-5
<b>A11</b> Electrical resistivity of carbon nanofiber/aluminum matrix composites	Z. F. Xu Y. B. Choi K. Matsugi D. C. Li G. Sasaki	ICCHT2008-4th Int. Conf. on Cooling and Heating Technologies, (2008) pp. 311-317
<b>A12</b> Investigation on infiltration of molten aluminum into a metal fiber preform	Y. B. Choi K. Matsugi G. Sasaki S. H. Park W. J. Park	16th Annual Int. Conf. on Composites /Nano Engineering, (2008)

## Published Papers

---

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>A13</b> Infiltration analysis of molten metal to fibrous preform by low pressure casting and experimental evaluation	Y. B. Choi G. Sasaki K. Matsugi N. Sorida	3rd Int. Conf. on Materials and Processing, (2008) pp. MSEC_ICM & P2008-72157-72162
<b>A14</b> Effect		

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>A23</b> Double beta decay experiments and $\nu$ -mass sensitivities	H. Ejiri K. Fushimi Ryuta Hazama H. Nakamura T. Shima	Journal of Physics: Conference Series, <b>120</b> (2008) pp. 052050-052052
<b>A24</b> Study of Double Beta Decay of $^{48}\text{Ca}$ with CANDLES	Y. Hirano T. Kishimoto I. Ogawa Ryuta Hazama S. Umehara K. Matsuoka G. Ito Y. Tsubota	Journal of Physics: Conference Series, <b>120</b> (2008) pp. 052053-052055
<b>A25</b> MOON for next-generation neutrino-less double-beta decay experiment	T. Shima P. J. Doe H. Ejiri S. R. Elliot J. Engel M. Finger M. Finger Jr. K. Fushimi V. M. Gehman M. B. Greenfield Ryuta Hazama et al.	Journal of Physics: Conference Series, <b>120</b> (2008) pp. 052055-052057
<b>A26</b> Double beta decay of $^{48}\text{Ca}$ studied by $\text{CaF}_2(\text{Eu})$ scintillators	S. Umehara T. Kishimoto I. Ogawa Ryuta Hazama H. Miyawaki S. Yoshida K. Matsuoka K. Kishimoto A. Katsuki H. Sakai D. Yokoyama K. Mukaida S. Tomii Y. Tatewaki T. Kobayashi A. Yanagisawa	Journal of Physics: Conference Series, <b>120</b> (2008) pp. 052058-052060
<b>A27</b> Study of Design for CANDLES Trigger System	G. Ito T. Kishimoto I. Ogawa S. Umehara Y. Hirano Y. Tsubota K. Matsuoka Ryuta Hazama	Journal of Physics: Conference Series, <b>120</b> (2008) pp. 052061-052062
<b>A28</b> Neutrino-less double- $\beta$ decay of $^{48}\text{Ca}$ studied by $\text{CaF}_2(\text{Eu})$ scintillators	S. Umehara T. Kishimoto I. Ogawa Ryuta Hazama H. Miyawaki S. Yoshida K. Matsuoka K. Kishimoto A. Katsuki H. Sakai D. Yokoyama K. Mukaida S. Tomii Y. Tatewaki T. Kobayashi A. Yanagisawa	Physical Review, C, 78 (2008) pp. 058501-1-058501-4

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>A29</b> Online International Community and Alumni Database by Free Open Source Software	Ryuta Hazama Yasuhide Ito Zhenisbek Assylbekov	2008 JSEE Annual Conference International Session Proceedings, (2008) pp. 76-79
<b>A30</b> Molecular dynamics simulation of metal coating on single-walled carbon nanotube	Shuhei Inoue Yukihiko Matsumura	Chemical Physics Letters, <b>464</b> (2008) pp. 160-165
<b>A31</b> Effect of catalyst combination on growth of single-walled carbon nanotubes	Shuhei Inoue Yoshihiro Kikuchi Yukihiko Matsumura	Diamond & Related Materials, <b>17</b> (2008) pp. 1888-1890
<b>A32</b> Mass Spectroscopy of Chemical Reaction of 3d Metal Clusters Involved in Chemical Vapor Deposition Synthesis of Carbon Nanotubes	Shuhei Inoue Shigeo Maruyama	Japanese Journal of Applied Physics, <b>47</b> , 4 (2008) pp. 1931-1936
<b>A33</b> Molecular dynamics simulation of physical vapor deposition of metals onto a vertically aligned single-walled carbon nanotube surface	Shuhei Inoue Yukihiko Matsumura	Carbon, <b>46</b> (2008) pp. 2046-2052
<b>A34</b> Molecular Dynamics Simulation for Metal Deposition Process on Vertically Aligned Single-walled Carbon Nanotubes Film	Shuhei Inoue Yukihiko Matsumura	Proc of 7th JSME-KSME Thermal and Fluid Engineering Conference, (2008)
<b>A35</b> Elucidation of Catalytic Pyrolysis for Synthesizing Single-walled Carbon Nanotubes by Using Local Heating Process	Kazuma Yamada Shuhei Inoue Yukihiko Matsumura	Proc of 14th International Congress on Catalysis, (2008)
<b>A36</b> Effects of Catalyst Supporters for Synthesizing single-walled Carbon Nanotubes in Catalytic Pyrolysis Process	Kazuya Nomura Shuhei Inoue Yoshihiro Kikuchi Yukihiko Matsumura	Proc of 14th International Congress on Catalysis, (2008)
<b>A37</b> Behavior of 5-HMF in Subcritical and Supercritical Water	Athika Chuntanapum Tau Len-Kelly Yong Shigeru Miyake Yukihiko Matsumura	Ind. Eng. Chem. Res., <b>47</b> (2008) pp. 2956-2962
<b>A38</b> Gasification of Catalyst-Suspended Chicken Manure in Supercritical Water	Akifumi Nakamura Eiji Kiyonaga Yukimasa Yamamura Yoshihisa Shimizu Tomoaki Minowa Yoji Noda Yukihiko Matsumura	J. Chem. Eng. Jpn., <b>41</b> , 5 (2008) pp. 433-440
<b>A39</b> Detailed Analysis of Heat and Mass Balance for Supercritical Water Gasification	Akifumi Nakamura Eiji Kiyonaga Yukimasa Yamamura Yoshihisa Shimizu Tomoaki Minowa Yoji Noda Yukihiko Matsumura	J. Chem. Eng. Jpn., <b>41</b> , 8 (2008) pp. 817-828
<b>A40</b> Behavior of inorganic elements in poultry manure during supercritical water gasification	Takashi Yanagida Tomoaki Minowa Akifumi Nakamura Yukihiko Matsumura Yuji Noda	J. Jpn. Inst. Energy, <b>87</b> , 9 (2008) pp. 731-736
<b>A41</b> A novel method to determine the heat of reaction for supercritical water gasification	Yukihiko Matsumura Taichi Horimoto	16th European Biomass Conference & Exhibition: From Research to Industry and Markets, Jun. 2-6, 2008, Feria Valencia, Spain, (2008)
<b>A42</b> Reaction modeling on supercritical water gasification with suspended activated carbon catalyst	Yukihiko Matsumura Shotaro Hara Shuhei Inoue Tomoaki Minowa Yoji Noda Yoshihisa Shimizu	16th European Biomass Conference & Exhibition: From Research to Industry and Markets, Jun. 2-6, 2008, Feria Valencia, Spain, (2008)

<b>Paper Title</b>	<b>Author Name</b>	<b>Journal, Vol., No. (Year) Page</b>
<b>A43</b> Rheological behavior of chicken manure with suspended activated carbon as a feedstock of supercritical water gasification	Yukihiko Matsumura Yuji Kitagawa Shuhei Inoue Tomoaki Minowa Takashi Noguchi Yoji Noda Yoshihisa Shimizu	16th European Biomass Conference & Exhibition: From Research to Industry and Markets, Jun. 2-6, 2008, Feria Valencia, Spain , (2008)
<b>A44</b> Material recovery from solid and liquid residue of supercritical water gasification with chicken manure as by-product utilization	Takashi Yanagida Tomoaki Minowa Akifumi Nakamura Yukihiko Matsumura Yoji Noda	16th European Biomass Conference & Exhibition: From Research to Industry and Markets, Jun. 2-6, 2008, Feria Valencia, Spain , (2008)
<b>A45</b> Optimization of hydrothermal pretreatment of lignocellulosic materials for 2nd generation bioethanol production	Yukihiko Matsumura Daisuke Ikahisa Phacharakamol Petchpradab Koichi Yoshino Tawatchai Charinpanitkul	16th European Biomass Conference & Exhibition: From Research to Industry and Markets, Jun. 2-6, 2008, Feria Valencia, Spain, (2008)
<b>A46</b> Aspects important to Asian biomass utilization and activities of Asia Biomass Association	Yukihiko Matsumura	Proc. Int. Seminar on Rural Biomass Energy & ASEAN Plus Three (China, Japan and Korea) Forum on Biomass Energy, Jun. 18-21, Beijing, China , (2008) pp. 122-127
<b>A47</b> Saccharification of rubber wood residue by hydrothermal pretreatment	Phacharakamol Petchpradab Tawatchai Charinpanitkul Nara Suankaew Yoshida Takuya Yukihiko Matsumura	Prep. International Symposium on Environmental Management: Hazardous Environmental Management toward Sustainability Sep. 22-23, 2008, Nakorn Nayok, Thailand., (2008) pp. 52
<b>A48</b> Comparative Study on Contact Devices used in the Chemical Humidity Conditioning System	Risa Aikawa Yukihiko Matsumura Hiroyuki Kitahara	The 7th KSME-JSME Thermal and Fluids Engineering Conference, Oct. 13-16, 2008, Sapporo, Japan., (2008)
<b>A49</b> Heat of Reaction of Methanol Oxidation in Supercritical Water	GoTsujiimoto Yukihiko Matsumura	Proc. 7th KSME-JSME Thermal and Fluids Engineering Conference, Oct. 13-16, 2008, Sapporo, Japan, (2008)
<b>A50</b> Hydrothermal pretreatment of rubber wood for ethanol production	Yukihiko Matsumura Takuya Yoshida Minoru Nakashima Phacharakamol Petchpradab Tawatchai Charinpanitkul	AIChE 2008 100th Anniversary Meeting, Nov. 16-21, 2008, Pennsylvania, USA., (2008)
<b>A51</b> Hydrothermal pretreatment of Eucalyptus globules	Yukihiko Matsumura Takuya Yoshida Minoru Nakashima	5th Biomass Asia Workshop, Dec. 4-6, 2008, Guangzhou, China , (2008)
<b>A52</b> Hydrothermal Treatment of Biomass for Sustainable Development	Yukihiko Matsumura	International Conference on Environment 2008, Dec. 15-17, 2008, Penan, Malaysia , (2008)
<b>A53</b> NO Reduction in Rapidly-Mixed Tubular Flame Combustion	Daisuke Shimokuri Satoru Ishizuka	Proceedings of the 7th JSME-KSME Thermal and Fluids Engineering Conference, JSME, <b>08-211</b> , GST10-3 (2008) pp. D213-1-D213-4
<b>A54</b> Spray and Mixture Properties of Evaporating Fuel Spray Injected by Hole-Type Direct Injection Diesel Injector	Keiya Nishida Jian Gao Tetsuya Manabe Yuyin Zhang	International Journal of Engine Research, <b>9</b> , 4 (2008) pp. 347-360

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>A55</b> An Experimental Study on Flat-Wall-Impinging Spray of Microhole Nozzles under Ultra-High Injection Pressures	Wu Zhang Keiya Nishida Jian Gao Daisuke Miura	Proceedings of Institute of Mechanical Engineers, Part D: Journal of Automobile Engineering, <b>222</b> , 9 (2008) pp. 1731-1741
<b>A56</b> An Experimental Study on Mixture Formation Process of Flat Wall Impinging Spray Injected by Micro-Hole Nozzle under Ultra-High Injection Pressure	Wu Zhang Keiya Nishida Jian Gao Daisuke Miura	SAE Technical Paper, No.2008-01-1601 (2008) pp. 1-7
<b>A57</b> Ignition and Combustion Characteristics of Wall-Impinging Sprays Injected by Group-Hole Nozzles for Direct-Injection Diesel Engines	Seoksu Moon Jian Gao Yuyin Zhang Keiya Nishida Yuhei Matsumoto	SAE Technical Paper, No.2008-01-2469 (2008) pp. 1-15
<b>A58</b> Spray Evaporation and Combustion Characteristics of Group-Hole Nozzle for D.I. Diesel Engines	Yuhei Matsumoto Jian Gao Makoto Namba Keiya Nishida	Proceedings of the Seventh International Conference on Modeling and Diagnostics for Advanced Engine Systems, SC1-4 (2008) pp. 383-390
<b>A59</b> Mixture Formation Process of Wall-Impinging Spray by D.I. Gasoline Injector (Comparison between Experiment and CFD Calculation)	Kiyotaka Sato Tadashi Tadokoro Hideaki Yokohata Masahisa Yamakawa Keiya Nishida	Proceedings of the Seventh International Conference on Modeling and Diagnostics for Advanced Engine Systems, SC3-3 (2008) pp. 437-444
<b>A60</b> Effect of Temporal and Spatial Splitting of Fuel Injection on Mixture Formation in D.I. Diesel Spray	Keiya Nishida Yuhei Matsumoto Seoksu Moon Jian Gao	CD-ROM Proceedings of the 3rd International Symposium on Clean and High-Efficiency Combustion in Engines, ISCE 2008, (2008)
<b>A61</b> Photoionized Xenon Cluster Plasmas Generated by a Soft X-ray Laser Pulse	S. Namba K. Takiyama N. Hasegawa M. Kishimoto M. Nishikino T. Kawachi K. Sukegawa H. Yamatani M. Tanaka Y. Ochi K. Nagashima	J. Phys. Conf. Series, <b>112</b> (2008) pp. 042057
<b>A62</b> Characterization of out-of-band radiation and plasma parameters in laser-produced Sn plasmas for extreme ultraviolet lithography light sources	S. Namba S. Fujioka H. Sagaguchi H. Nishimura Y. Yasuda K. Nagai N. Miyanaga Y. Izawa K. Mima K. Sato K. Takiyama	J. Appl. Phys., <b>104</b> (2008) pp. 013305
<b>A63</b> Effect of Disalignment due to Electron Collision on Laser-Induced Fluorescence Polarization Spectroscopy for Measuring Electric Field in Plasmas	S. Furukawa S. Namba K. Takiyama T. Oda	Jpn. J. Appl. Phys., <b>47</b> (2008) pp. 8570-8575



Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>A64</b> Absolute evaluation of out-of-band radiation from laser produced Sn plasma for extreme ultraviolet lithography application	H. Sagaguchi S. Fujioka S. Namba H. Tanuma H. Ohashi S. Suda M. Shimomura Y. Nagai Y. Kimura Y. Yasuda H. Nishimura T. Norimatsu K. Nishihara N. Miyanaga Y. Izawa K. Mima A. Sunahara	Appl. Phys. Lett., <b>92</b> (2008) pp. 111503
<b>A65</b> A preliminary study on the use of $^{10}\text{Be}$ in forensic radioecology	N.E. Whitehead S. Endo K. Tanaka T. Takatsuji M. Hoshi S. Fukutani R.G. Ditchburn A.Zondervan	J. Environ. Radio. Act. , <b>99</b> (2008) pp. 260-270
<b>A66</b> Iodine-129 measurement in soil samples from Dolon village near the Semi-palatinsk nuclear test site,	S. Endo J. Tomita K. Tanaka M. Yamamoto S. Fukutani T. Imanaka A. Sakaguchi H. Amano H. Kawamura H. Kawamura K. N. Apsalikov B. I. Gusev N. E. Whitehead S. Shinkarev M. Hoshi	Radiat. Environm. Biophys. , <b>47</b> (2008) pp. 359-365
<b>A67</b> Gamma-ray exposure from neutron-induced radionuclides in soil in Hiroshima and Nagasaki based on DS02 calculations	T. Imanaka S. Endo K. Tanaka K. Shizuma	Radiat. Environm. Biophys. , <b>47</b> (2008) pp. 323-330
<b>A68</b> Growth retardation and death of rice plants irradiated with carbon ion beams is preceded by very early dose- and time-dependent gene expression changes	R. Rakwal S. Kimura J. Shibato K. Nojima Yeon-Ki Kim B. H. Nahm Nam-Soo Jwa S. Endo K. Tanaka H. Iwahashi	Mol. Cells 25 (2), 272-278, 2008., <b>25</b> (2008) pp. 272-278
<b>A69</b> Intercomparison study on $^{152}\text{Eu}$ gamma ray and $^{36}\text{Cl}$ AMS measurements for development of the new Hiroshima-Nagasaki atomic bomb dosimetry system 2002 (DS02)	M. Hoshi S. Endo K. Tanaka M. Ishikawa T. Straume K. Komura W. Ruehm E. Nolte T. Huber Y. Nagashima R. Seki K. Sasa K. Sueki H. Fukushima S. D. Egbert T. Imanaka	Radiat Environ Biophys. , <b>47</b> (2008) pp. 313-322

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>A70</b> Skin dose from neutron-activated soil for early entrants following the A-bomb detonation in Hiroshima: contribution from $\beta$ and $\gamma$ rays	K. Tanaka S. Endo T. Imanaka K. Shizuma H. Hasai M. Hoshi	Radiat Environ Biophys. , <b>47</b> (2008) pp. 331-336
<b>A71</b> Measurement of absorbed doses from X-ray baggage examinations to tooth enamel by means of ESR and glass dosimetry	K. Zhumadilov V. Stepanenko A. Ivannikov Z. Zhumadilov D. Zharlyganova S. Toyoda K. Tanaka S. Endo M. Hoshi	Radiat. Environ. Biophys. , <b>47</b> (2008) pp. 541-545
<b>A72</b> Experimental derivation of relative biological effectiveness of A-bomb neutrons in Hiroshima and Nagasaki and implications for risk assessment	M. S. Sasaki T. Nomura Y. Ejima H. Utsumi S. Endo I. Saito T. Itoh M. Hoshi	Radiat. Res. , <b>170</b> (2008) pp. 101-117
<b>A73</b> Spatial distribution of soil contamination by $^{137}\text{Cs}$ and $^{239,240}\text{Pu}$ in the village of Dolon near the Semipalatinsk nuclear test site: New information on traces of the radioactive plume from the 29 August 1949 nuclear test	M. Yamamoto J. Tomita A. Sakaguchi T. Imanaka S. Fukutani S. Endo K. Tanaka M. Hoshi B. I. Gusev A. N. Apsalikov	Health Phys. , <b>94</b> , 4 (2008) pp. 328-337
<b>A74</b> $Q_{\beta}$ measurements of $^{158,159}\text{Pm}$ , $^{159,161}\text{Sm}$ , $^{160-165}\text{Eu}$ , $^{163}\text{Gd}$ and $^{166}\text{Tb}$ using a total absorption	H. Hayashi Y. Akita O. Suematsu M. Shibata M. Asai T.K. Sato S. Ichikawa I. Nishinaka Y. Nagame A. Osa K. Tsukada T. Ishii Y. Kojima A. Taniguchi	Eur. Phys. J. A, <b>34</b> (2008) pp. 363-370
<b>A75</b> Search for isomeric transitions in fission products around mass number 150	Y. Kojima M. Shibata A. Taniguchi A. Murataka K. Ota K. Shizuma	Proc. Int. Conf. on Nuclear Data for Science and Technology 2007, (2008) pp. 115-118
<b>A76</b> $Q_{\beta}$ measurements of neutron-rich isotopes with a total absorption type Ge detector using the KUR-ISOL	H. Hayashi Y. Akita I. Miyazaki M. Shibata Y. Kojima A. Taniguchi	Proc. Int. Conf. on Nuclear Data for Science and Technology 2007, (2008) pp. 131-134

<b>Paper Title</b>	<b>Author Name</b>	<b>Journal, Vol., No. (Year) Page</b>
<b>A77</b> Volatile elements production rates in a proton-irradiated molten lead-bismuth target	Y. Tall S. Cormon M. Fallo Y. Foucher A. Guertin T. Kirchner L. Zanini M. Andersson K. Berg H. Franberg F. Groschel E. Manfrin W. Wagner M. Wohlmuther P. Everaerts U. Koester H. Ravn E. Noah Messomo C. Jost Y. Kojima	Proc. Int. Conf. on Nuclear Data for Science and Technology, (2008) pp. 1069-1072
<b>A78</b> 3-D FEM Stress Analysis and Strength of Adhesive-Rivets Combination Joints under Static and Impact In-plane Bending Moments	Ryo Nogaito Toshiyuki SAWA Atsushi KARAMI	Proc. ASME International Mechanical Engineering Congress and Exposition 2008, (2008)
<b>A79</b> A Study on Evaluation of Impact Strength of Adhesive Joints Subjected to Impact Shear Loadings	Toshimasa NAGAI Toshiyuki SAWA Takeshi IWAMOTO Hideaki KURAMOTO	Proc. ASME International Mechanical Engineering Congress and Exposition 2008, (2008)
<b>A80</b> A Three-Dimensional Finite Element stress Analysis of Plane-Woven CFRP Adhesive Laminated Plates and Hollow Cylinder under Out-of-plane Loading	Yukiya NOSHITA Toshiyuki SAWA Takeshi IWAMOTO	Proc. ASME International Mechanical Engineering Congress and Exposition 2008, (2008)
<b>A81</b> The Effect of Clamping Force and Material Properties on the Tightness Performance a Flexible Box-shaped Flange Bolted Joint	Ryo Kurosawa Toshiyuki SAWA Yasuaki TATSUMI Satoshi NAGATA	Proc. ASME PVP 2008 Pressure Vessels and Piping Conference, (2008)
<b>A82</b> Stress Characteristics of Large Diameter Pipe Flange Connection with Non-asbestos Gasket under Elevated Temperature	Yoshio TAKAGI Toshiyuki SAWA Naoki KAWASAKI	Proc. ASME PVP 2008 Pressure Vessels and Piping Conference, (2008)
<b>A83</b> Mechanical Behavior of Rotational screw Thread Loosening in Bolted Joints under Repeated Temperature Changes	Toshiyuki SAWA Yusuke FUKUBA Mitsutoshi ISHIMURA Yasumasa SHOJI	Proc. ASME PVP 2008 Pressure Vessels and Piping Conference, (2008)
<b>A84</b> FEM Stress Analysis and Sealing Performance Evaluation in Pipe Flange Connections with Spiral Wound Gaskets subjected to External Bending Moments (Case Where Internal Fluid is Liquid)	Toshiyuki SAWA Takeshi IWAMOTO Kensuke FUNADA Yuya OMIYA	Proc. ASME PVP 2008 Pressure Vessels and Piping Conference, (2008)
<b>A85</b> Stress Analysis and Sealing Performance Evaluation of Pipe Flange Connection at Evaluated Temperature	Yoshio TAKAGI Hiroyasu TORII Toshiyuki SAWA Naoki KAWASAKI	Proc. ASME PVP 2008 Pressure Vessels and Piping Conference, (2008)
<b>A86</b> Effects of Temperature Change on Bolt Load and Gasket Load of Bolted Flange Connections	Satoshi NAGATA Toshiyuki SAWA	Proc. ASME PVP 2008 Pressure Vessels and Piping Conference, (2008)
<b>A87</b> Self-Loosening Mechanism of Nuts due to Impacts	Yasumasa SHOJI Toshiyuki SAWA	Proc. ASME PVP 2008 Pressure Vessels and Piping Conference, (2008)
<b>A88</b> Stress analyses and strength estimations of some adhesive joints	Toshiyuki SAWA	Proc. The International Conference on Advanced Computational Engineering and Experimenting 2008, (2008)
<b>A89</b> Two-dimensional stress analysis of adhesive joints subjected to cleavage loads	Masahiko AMAKURA Toshiyuki SAWA Takeshi IWAMOTO	Proc. The International Conference on Advanced Computational Engineering and Experimenting 2008, (2008)

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>A90</b> 3-D FEM stress analysis of stepped-lap adhesive joint under static and impact tensile loadings	Kohei ICHIKAWA Yuichiro SHIN Toshiyuki SAWA	Proc. The International Conference on Advanced Computational Engineering and Experimenting 2008, (2008)
<b>A91</b> A Numerical study of fibrous tissue formation type I collagen under mechanical stimuli by reaction &#8211; diffusion equations with motion of fibroblasts	Takeshi IWAMOTO Toshio TSUTA Toshiyuki SAWA	The Open Mechanics Journal, 2 (2008) pp. 47-56
<b>A92</b> A Finite Element-based Level-set Method of an Interface Motion Driven by a Diffusion Field: Application to a Phase Transformation Problem	Takeshi IWAMOTO Mohammed Cherkaoui Esteban P. Busso	Computational Materials Science, 44, 2 (2008) pp. 792-801
<b>A93</b> Dynamic Characteristics of Simple Cylindrical Hydraulic Engine Mount Utilizing Air Compressibility	Kzunari Nakahara Noritoshi Nakagawa Katsutoshi Ohta	Journal of System Design and Dynamics, 2, 5 (2008) pp. 1118-1136
<b>A94</b> Eigenvalue Analysis for Structure of Centrifugal Fan	Takeo Fujii Ryuji Matsushita Noritoshi Nakagawa	Proc. of 15th International Congress on Sound and Vibration, (2008)
<b>A95</b> Removal of Dust on Flat Board by Device of Focusing Ultrasonic Waves	Noritoshi Nakagawa Chaoqun Wu Yasuhisa Sekiguchi Yusuke Konishi	Proc. of the 9th International Congress on Motion and Vibration Control, (2008)
<b>A96</b> Computational Simulation of Automotive Muffler Radiation Noise	Takashi Yasuda Noritoshi Nakagawa Chaoqun Wu Naoki Nakamura Masao Uchiyama	Proc. of 37th International Congress and Exposition on Noise Control Engineering (inter-noise 2008), (2008)
<b>A97</b> Development of Damage Diagnosis on a Gear Tooth Surface by Using Laser Beam Reflection	Eiichirou Tanaka Kazuteru Nagamura Kiyotaka Ikejo Tatsuro Sugiyama Ryozo Nemoto	Proceeding of the International Conference on Noise and Vibration Engineering (ISMA2008), Leuven, Belgium, (2008)
<b>A98</b> Autonomous Specialization in a Multi-Robot System based on Artificial Evolution	Toshiyuki Yasuda Tomoya Matsuda Yuichi Kawamatsu Yoshiyuki Matsumura Kazuhiro Ohkura	Proceedings of the 5th International Conference on Ubiquitous Robots and Ambient Intelligence, (2008) pp. 108-113
<b>A99</b> Evolutionary Robotics Approach to Autonomous Task Allocation for a Multi-Robot System	Kazuhiro Ohkura Yoshiyuki Matsumura Toshiyuki Yasuda Tomoya Matsuda	Proceedings of Artificial Neural Networks in Engineering 2008, Intelligent Engineering Systems Through Artificial Neural Networks, 18 (2008) pp. 121-128
<b>A100</b> Hybrid Optimization based on Fast Evolution Strategies and Particle Swarm Optimization”, Proceedings of the 3rd International Conference on Bioinspired Optimization Methods and their Applications	Chunshi Feng Yoshiyuki Matsumura Takahiro Hamashima Kazuhiro Ohkura Shuang Cong	Proceedings of the 3rd International Conference on Bioinspired Optimization Methods and their Applications, (2008) pp. 29-39
<b>A101</b> Application of Grid Task Scheduling Algorithm to Evolutionary Multi-robotics Problems	Yoshiyuki Matsumura Masaki Matsuda Masashi Oiso Kazuhiro Ohkura Noriyuki Fujimoto	Proceedings of World Automation Congress 2008, (2008)
<b>A102</b> Swarm Robot Control by Evolving Artificial Neural Networks with Small World Topologies	Kazuhiro Ohkura Tomoya Matsuda Toshiyuki Yasuda Yoshiyuki Matsumura	Proceedings of Joint 4th International Conference on Soft Computing and Intelligent Systems and 9th International Symposium on Advanced Intelligent Systems, (2008) pp. 1888-1893

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>A103</b> Hybrid Optimization Based on $(\mu, \lambda)$ -Evolution Strategies and Particle Swarm Intelligence	Chunshi Feng Yoshiyuki Matsumura Takahiro Hamashima Kazuhiro Ohkura Shuang Cong	Proceedings of Joint 4th International Conference on Soft Computing and Intelligent Systems and 9th International Symposium on Advanced Intelligent Systems, (2008) pp. 849-854
<b>A104</b> Hybrid Optimization based on Evolution Strategies and Particle Swarm Optimization	Takahiro Hamashima Yoshiyuki Matsumura Chunshi Feng Kazuhiro Ohkura Shuang Cong	Proceedings of China-Japan Joint Conference on Mechatronics, (2008) pp. 104-105
<b>A105</b> Reinforcement Learning Technique with an Adaptive Action Generator for a Multi-Robot System	Toshiyuki Yasuda Kazuhiro Ohkura	Proceedings of From Animals to Animats 10, the 10th International Conference on Simulation of Adaptive Behavior, LNCS5040, (2008) pp. 250-259
<b>A106</b> Application of Grid Task Scheduling Algorithm R3Q to Evolutionary Multi-robotics Problem	Masashi Oiso Yoshiyuki Matsumura Kazuhiro Ohkura Noriyuki Fujimoto	Proceedings of 2008 IEEE Congress on Evolutionary Computation, (2008) pp. 1520-1527
<b>A107</b> A Robust Scheduling Rule using a Neural Network in Dynamically Changing Job Shop Environments	Toru Eguchi Fuminori Oba Satoru Toyooka	International Journal of Manufacturing Technology and Management, <b>14</b> , 3/4 (2008) pp. 266-288
<b>A108</b> Bi-criteria Dynamic Job Shop Scheduling to Meet Due-dates and Minimize Setup Time	Toru Eguchi Hiroaki Kawai Takeshi Murayama Fuminori Oba	Proceedings of the 2008 International Symposium on Flexible Automation, (2008)
<b>A109</b> Gain-Scheduled Controller Synthesis Based on New LMIs for Dissipativity of Descriptor LPV Systems	Izumi Masubuchi Atsushi Suzuki	Proceedings of the 17th IFAC World Congress, (2008) pp. 9993-9998
<b>A110</b> An LMI based scheduling algorithm for constrained stabilization problems	Nobutaka Wada Masami Saeki	Systems and Control Letters, <b>57</b> (2008) pp. 255-261
<b>A111</b> Tracking Control with Saturating Actuators: A Method Based on State-Dependent Gain-Scheduling and Reference Management	Nobutaka Wada Masami Saeki	Proceedings of the 17th IFAC World Congress, (2008)
<b>A112</b> Tracking Control of a Twin-rotor Helicopter Model under Thrust Constrains Using State-Dependent Gain-Scheduling and Reference Management	Nobutaka Wada Masayuki Minami Yoshiya Matsuo Masami Saeki	Proceedings of IEEE International Conference on Mechatronics and Automation, (2008)
<b>A113</b> Partial numerical optimization of low order H-infinity controller on the frequency domain	Masami Saeki Masashi Ogawa	17th IEEE International Conference on Control Applications, (2008) pp. 804-808
<b>A114</b> Data-driven controller design for loop-shaping using plant transient responses	Masami Saeki Yosuke Sugitani	SICE Annual Conference, (2008) pp. 2370-2375
<b>A115</b> Model-free PID controller optimization for loop shaping	Masami Saeki	Proceedings of the 17th World Congress, The International Federation of Automatic Control, (2008) pp. 4958-4963
<b>A116</b> Design method of fault detector for injection unit	Kiyoshi Ochi Masami Saeki	Proceedings of the 17th World Congress, The International Federation of Automatic Control, (2008) pp. 7203-7208
<b>A117</b> Surface finishes from turning and facing with round nosed tools	T. H. C. Childs K. Sekiya R. Tezuka D. Dornfeld D. -E. Lee S. Min P. K. Wright	CIRP Annals - Manufacturing Technology, <b>57</b> , 1 (2008) pp. 89-92

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>A118</b> Viscoplastic Parameter Identification for Lead-Free Solder Alloy by Micro-Indentation, FE Simulation and Optimization	Hiroshi Hamasaki Kazuhiro Shinbata Fusahito Yoshida	Materials Transactions, <b>49</b> , 3 (2008) pp. 532-537
<b>A119</b> Effects of strain rate, temperature and sheet thickness on yield locus of AZ31 magnesium alloy sheet	Tetsuo Naka Takeshi Uemori Ryutaro Hino Masahide Kohzu Kenji Higashi Fusahito Yoshida	Journal of Materials Processing Technology, <b>201</b> , 1-3 (2008) pp. 395-400
<b>A120</b> A new algorithm for reduction of number of press-forming stages in forging processes using numerical optimization and FE simulation	Ryutaro Hino Akihiko Sasaki Fusahito Yoshida Vassili V. Toropov	International Journal of Mechanical Sciences, <b>50</b> , 5 (2008) pp. 974-983
<b>A121</b> A plasticity model describing yield-point phenomena of steels and its application to FE simulation of temper rolling	Fusahito Yoshida Yuya Kaneda Shigeo Yamamoto	International Journal of Plasticity, <b>24</b> , 10 (2008) pp. 1792-1818

## B. Artificial Complex Systems Engineering

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>B1</b> Revision of a floating-point genetic algorithm GENOCOP V for nonlinear programming problems	Kosuke Kato Masatoshi Sakawa Hideki Katagiri	The Open Cybernetics & Systemics Journal, <b>2</b> (2008) pp. 24-29
<b>B2</b> An evolutionary multi-agent based search method for Stackelberg solutions of bilevel facility location problems	Takeshi Uno Hideki Katagiri Kosuke Kato	International Journal of Innovative Computing, Information and Control, <b>4</b> , 5 (2008) pp. 1033-1042
<b>B3</b> Particle swarm optimization for interactive fuzzy multiobjective nonlinear programming	Takeshi Matsui Masatoshi Sakawa Kosuke Kato Takeshi Uno Koichi Tamada	Scientiae Mathematicae Japonicae, <b>68</b> , 1 (2008) pp. 103-115
<b>B4</b> Particle swarm optimization for nonlinear integer programming problems	Takeshi Matsui Kosuke Kato Masatoshi Sakawa Takeshi Uno Koichi Matsumoto	Proceedings of International Multi-Conference of Engineers and Computer Scientists 2008, (2008) pp. 1874-1877
<b>B5</b> Particle swarm optimization using memory structures for nonlinear 0-1 programming problems	Takeshi Matsui Masatoshi Sakawa Kosuke Kato	Proceedings of the 11th Czech-Japan Seminar on Data Analysis and Decision Making under Uncertainty, (2008) pp. 57-62
<b>B6</b> A fuzzy DEA model and its application to bank efficiency evaluation	Yoshiki Uemura Kosuke Kato Masatoshi Sakawa	Proceedings of Joint 4th International Conference on Soft Computing and Intelligent Systems and 9th International Symposium on advanced Intelligent Systems, (2008) pp. 959-962
<b>B7</b> An interactive fuzzy satisficing method through multiobjective particle swarm optimization with external archives	Takeshi Matsui Masatoshi Sakawa Kosuke Kato Takeshi Uno Koichi Tamada	Proceedings of Joint 4th International Conference on Soft Computing and Intelligent Systems and 9th International Symposium on advanced Intelligent Systems, (2008) pp. 1165-1169

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>B8</b> Interactive fuzzy programming based on variance minimization using genetic algorithm for two-level integer programming problems involving random variable coefficients	Kosuke Kato Masatoshi Sakawa	Proceedings of Joint 4th International Conference on Soft Computing and Intelligent Systems and 9th International Symposium on advanced Intelligent Systems, (2008) pp. 1170-1175
<b>B9</b> Operation planning of district heating and cooling plants considering various penalties for violation of contract	Kosuke Kato Masatoshi Sakawa Keiichi Ishimaru Satoshi Ushiro	Proceedings of Joint 4th International Conference on Soft Computing and Intelligent Systems and 9th International Symposium on advanced Intelligent Systems, (2008) pp. 1176-1179
<b>B10</b> An improved differential evolution heuristic for nonlinear programming problems	Takeshi Uno Kosuke Kato Takeshi Matsui Yuichi Fujita	Proceedings of Joint 4th International Conference on Soft Computing and Intelligent Systems and 9th International Symposium on advanced Intelligent Systems, (2008) pp. 1180-1183
<b>B11</b> Particle swarm optimization for nonlinear 0-1 programming problems	Takeshi Matsui Masatoshi Sakawa Kosuke Kato Takeshi Uno	Proceedings of 2008 IEEE International Conference on Systems, Man and Cybernetics (SMC 2008), (2008) pp. 168-173
<b>B12</b> Heat load prediction through recurrent neural network in district heating and cooling systems	Kosuke Kato Masatoshi Sakawa Keiichi Ishimaru Satoshi Ushiro Toshihiro Shibano	Proceedings of 2008 IEEE International Conference on Systems, Man and Cybernetics (SMC 2008), (2008) pp. 1401-1406
<b>B13</b> Particle swarm optimization combining diversification and intensification for nonlinear integer programming problems	Takeshi Matsui Masatoshi Sakawa Kosuke Kato Koichi Matsumoto	Proceedings of 4th International Workshop on Computational Intelligence & Applications (IW-CIA2008), (2008) pp. 43-47
<b>B14</b> Optimal Transportation Problem by Stochastic Optimal Control	Toshio Mikami Michele Thieullen	SICON, <b>40</b> (2008) pp. 1127-1139
<b>B15</b> Marginal problem for semimartingales via duality	Toshio Mikami	Gakuto International Series. Mathematical Sciences and Applications, <b>30</b> (2008) pp. 133-152
<b>B16</b> Network formation analysis with general allocation procedures of the link costs	Tomohiro Hayashida Ichiro Nishizaki Hideki Katagiri	The Open Cybernetics and Systemics Journal, <b>2</b> (2008) pp. 263-268
<b>B17</b> Agent-based modelling and simulation for the analysis of network formation depending on social reputation	Tomohiro Hayashida Ichiro Nishizaki Hideki Katagiri	Proceedings of the Joint 4th International Conference on Soft Computing and Intelligent Systems and 9th International Symposium on Advanced Intelligent Systems (SCIS & ISIS 2008), (2008) pp. 975-980
<b>B18</b> Agent-based simulation analysis for social norms	Ichiro Nishizaki Hideki Katagiri Toshihisa Oyama Tomohiro Hayashida	Proceedings of 2008 IEEE International Conference on Systems, Man and Cybernetics (SMC 2008), (2008) pp. 2105-2110
<b>B19</b> A network in a society composed of individuals characterized by the ultimatum bargaining games	Tomohiro Hayashida Ichiro Nishizaki Hideki Katagiri	Proceedings of 2008 IEEE International Conference on Systems, Man and Cybernetics (SMC 2008), (2008) pp. 3663-3667
<b>B20</b> An approximate solution method based on tabu search for k-minimum spanning tree problems	Jun Ishimatsu Hideki Katagiri Ichiro Nishizaki Tomohiro Hayashida	Proceedings of Fourth International Workshop on Computational Intelligence and Applications (IW-CIA 2008), (2008) pp. 159-164

**Published Papers**

---

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>B21</b> Nondominated equilibrium solutions of multiobjective two-person nonzero-sum games in normal and extensive forms	Ichiro Nishizaki	Proceedings of Fourth International Workshop on Computational Intelligence and Applications (IWCIA 2008), (2008) pp. 13-22
<b>B22</b> Interactive multiobjective programming under random fuzzy environments	Hideki Katagiri Takashi Hasuike Hiroaki Ishii Ichiro Nishizaki	Proceedings of the 11th Czech-Japan Seminar on Data Analysis and Decision Making under Uncertainty, (2008) pp. 33-38
<b>B23</b> A minimum spanning tree problem with random fuzzy edge costs	Hideki Katagiri Takashi Hasuike Hiroaki Ishii	Proceedings of Joint 4th International Conference on Soft Computing and Intelligent Systems and 9th International Symposium on Advanced Intelligent Systems (SCIS & ISIS 2008), (2008) pp. 969-974
<b>B24</b> Possibility maximization model for the probability of multi-criteria random fuzzy linear programming problem	Takashi Hasuike Hiroaki Ishii Hideki Katagiri	Proceedings of Joint 4th International Conference on Soft Computing and Intelligent Systems and 9th International Symposium on Advanced Intelligent Systems (SCIS & ISIS 2008), (2008) pp. 981-986
<b>B25</b> Single- and multi-objective defensive location problems on a network	Takeshi Uno Hideki Katagiri	European Journal of Operational Research, <b>188</b> , 1 (2008) pp. 76-84
<b>B26</b> Interactive multiobjective fuzzy random linear programming: maximization of possibility and probability	Hideki Katagiri Masatoshi Sakawa Kosuke Kato Ichiro Nishizaki	European Journal of Operational Research, <b>188</b> , 2 (2008) pp. 530-539
<b>B27</b> Nondominated equilibrium solutions of a multiobjective two-person nonzero-sum game in extensive form and corresponding mathematical programming problem	Ichiro Nishizaki Takuma Notsu	Journal of Global Optimization, <b>42</b> , 2 (2008) pp. 201-220
<b>B28</b> An efficient solution method for 0-1 random fuzzy programming problems considering the relaxation problems	Takashi Hasuike Hiroaki Ishii Hideki Katagiri	The Open Operational Research Journal, <b>2</b> (2008) pp. 38-43
<b>B29</b> Random Fuzzy Programming Models based on Possibilistic Programming	Hideki Katagiri Takashi Hasuike Hiroaki Ishii Ichiro Nishizaki	Proceedings of the 2008 IEEE International Conference on Systems, Man and Cybernetics (SMC 2008), (2008) pp. 1788-1793
<b>B30</b> Performance tradeoff in multiuser equalization for CDMA over flat channels	Kok Ann Donny Teo Shuichi Ohno	IEICE Transactions on Fundamentals, (2008) pp. 2008-2015
<b>B31</b> Approximate BER expression of ML equalizer for OFDM over doubly selective channels	Shuichi Ohno Kok Ann Donny Teo	Proc. of IEEE Intl. Conf. on Acoustics, Speech and Signal Processing, (2008)
<b>B32</b> Antenna selection for single carrier cyclic prefixed transmission	Shuichi Ohno Emmanuel C. Manasseh	Proc. of the 23rd International Technical Conference on Circuits/Systems, Computers and Communications, (2008)
<b>B33</b> Design of a memory-based prefilter supplementing a robust PID control system	Kenji Takao Toru Yamamoto Takao Hinamoto	Asian Journal of Control, <b>10</b> , 3 (2008) pp. 301-313
<b>B34</b> Optimal synthesis of state-estimate feedback controllers with minimum l <sub>2</sub> -sensitivity	Takao Hinamoto Takuro Kawagoe	IEEE Trans. on Circuits and Systems I: Regular Papers, <b>55</b> , <sup>circuits</sup>



Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>B36</b> Frequency-weighted L2-sensitivity minimization for MIMO linear discrete-time systems subject to L2-scaling constraints	Takao Hinamoto Osemekhian I. Omoifo Osamu Tanaka	Proc. 2008 3rd Int. Symp. on Communications, Control, and Signal Processing, (2008) pp. 288-291
<b>B37</b> Tracking analysis of an adaptive IIR notch filter using gradient-based algorithm	Aloys Mvuma Shotaro Nishimura Takao Hinamoto	Proc. 2008 IEEE Int. Symp. on Circuits and Systems, (2008) pp. 1148-1151
<b>B38</b> Design of frequency-response-masking FIR filters using SOCP with coefficient sensitivity constraint	Wu-Sheng Lu Takao Hinamoto	Proc. 2008 IEEE Int. Symp. on Circuits and Systems, (2008) pp. 2442-2445
<b>B39</b> Design for IIR digital filters with discrete coefficients using weighted modified least-square criterion	Masayoshi Nakamoto Yuuki Hayakawa Yutaka Kurumaji Takao Hinamoto	Proc. 23rd Int. Tech. Conf. on Circuits/Systems, Computers and Communications, (2008) pp. 1049-1052
<b>B40</b> Minimization of frequency-weighted l2-sensitivity subject to l2-scaling constraints for MIMO linear discrete-time systems using quasi-Newton algorithm	Takao Hinamoto Osamu Tanaka Akimitsu Doi	Proc. 4th European Conf. on Circuits and Systems for Communications, (2008) pp. 46-49
<b>B41</b> Design of a Performance-Driven Model Predictive PID Controller	Hideyuki Yagi Jiro Shimonishi Toru Yamamoto Takao Hinamoto	Proc. IEEE Int. Symp. on Industrial Electronics, (2008) pp. 1243-1248
<b>B42</b> Two-dimensional state-space digital filters with minimum frequency-weighted l2-sensitivity under l2-scaling constraints	Takao Hinamoto Toru Oumi Osemekhian I. Omoifo Wu-Sheng Lu	Proc. 51th 2008 IEEE Int. Midwest Symp. on Circuits and Systems, (2008) pp. 850-853
<b>B43</b> Tracking characteristics of an adaptive IIR notch filter for sinusoidal frequency variation	Aloys Mvuma Shotaro Nishimura Takao Hinamoto	Proc. 51th 2008 IEEE Int. Midwest Symp. on Circuits and Systems, (2008) pp. 858-861
<b>B44</b> Jointly optimized error-feedback and realization for roundoff noise minimization in state-estimate feedback digital controllers	Takao Hinamoto Kejiro Kawai Masayoshi Nakamoto Wu-Sheng Lu	Proc. 16th European Signal Processing Conf., (2008)
<b>B45</b> Minimization of L2-sensitivity for state-estimate feedback controllers subject to L2-scaling constraints using quasi-Newton method	Takao Hinamoto Takuro Kawagoe	Proc. 2008 Int. Symp. On Non-linear Theory and its Applications, (2008) pp. 33-36
<b>B46</b> Genetic algorithm approach for wavelet based image watermarking	Masayoshi Nakamoto Suguru Fujimoto Akimitsu Doi Takao Hinamoto	Proc. 9th Int. Conf. on Signal Processing, (2008) pp. 5-8
<b>B47</b> Tracking behavior of an adaptive IIR notch filter for a randomly-varying frequency	Aloys Mvuma Shotaro Nishimura Takao Hinamoto	Proc. 9th Int. Conf. on Signal Processing, (2008) pp. 248-251
<b>B48</b> Order acceptance and rejection decision for MTS and MTO production systems	Sujan Piya Katsumi Morikawa Katsuhiko Takahashi	Asia-Pacific Journal of Industrial Management, 1, 1 (2008) pp. 24-36
<b>B49</b> A multi-agent system for assembly line balancing	Kana Yokoyama Katsumi Morikawa Katsuhiko Takahashi	Asia-Pacific Journal of Industrial Management, 1, 1 (2008) pp. 54-61
<b>B50</b> Design support using demand forecasting system in private restaurants	Takayuki Kataoka Katsumi Morikawa Katsuhiko Takahashi	Proceeding of the 15th International Symposium on Inventories, (2008)
<b>B51</b> Collaborative production planning for a two-stage production system	Katsumi Morikawa Katsuhiko Takahashi	Proceeding of the 15th International Symposium on Inventories, (2008)
<b>B52</b> Inventory Control in a two-echelon dual-channel supply chain with setup of production and delivery	Takahiro Aoi Daisuke Hirofumi Katsumi Morikawa Katsuhiko Takahashi	Proceeding of the 15th International Symposium on Inventories, (2008)

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>B53</b> An adaptive multi-agent system for stochastic assembly balancing	Kana Yokoyama Katsumi Morikawa Katsuhiko Takahashi	Proceeding of the Ninth International Conference on Industrial Management, (2008) pp. 120-129
<b>B54</b> Due date and price quotation in a make-to-order manufacturing system	Sujan Piya Katsuhiko Takahashi Katsumi Morikawa	Proceeding of the Ninth International Conference on Industrial Management, (2008) pp. 136-144
<b>B55</b> A quantitative model of partner selection by considering demand uncertainty	Yosi A. Hidayat Katsuhiko Takahashi Katsumi Morikawa Kunihiro Hamada Lucia Diawati Andi Cakravastia	Proceeding of the Ninth International Conference on Industrial Management, (2008) pp. 307-316
<b>B56</b> Coordination model of small wholesales based on activity-based costing and analytical hierarchy process	Takayuki Kataoka Katsumi Morikawa Katsuhiko Takahashi	Proceeding of the Ninth International Conference on Industrial Management, (2008) pp. 414-419
<b>B57</b> Decision model for order acceptance (OA) in a make-to-order (MTO) production system: a negotiation based approach	Sujan Piya Katsuhiko Takahashi Katsumi Morikawa	Proceedings of the 9th Asia-Pacific Industrial Engineering & Management System Conference, (2008) pp. 913-924
<b>B58</b> Analysis and design of self-balancing production line with large number of stations and workers	Daisuke Hirotsu Katsumi Morikawa Katsuhiko Takahashi	Proceeding of the 9th Asia-Pacific Industrial Engineering & Management System Conference, (2008) pp. 936-943
<b>B59</b> Partner selection with dynamic pricing under uncertainty condition in the global marketplace	Yosi A. Hidayat Katsuhiko Takahashi Katsumi Morikawa Kunihiro Hamada Lucia Diawati Andi Cakravastia	Proceeding of the 9th Asia-Pacific Industrial Engineering & Management System Conference, (2008) pp. 944-956
<b>B60</b> A flexible branch and bound method for the job shop scheduling problem	Katsumi Morikawa Katsuhiko Takahashi	Proceeding of the 9th Asia-Pacific Industrial Engineering & Management System Conference, (2008) pp. 2227-2235
<b>B61</b> A multi-agent system for mixed-model assembly line balancing	Kana Yokoyama Katsumi Morikawa Katsuhiko Takahashi	Proceeding of the 9th Asia-Pacific Industrial Engineering & Management System Conference, (2008) pp. 2597-2605
<b>B62</b> Global behavior of the branch of positive solutions to a logistic equation of population dynamics	Tetsutaro Shibata	Proceedings of the American Mathematical Society , <b>136</b> (2008) pp. 2547-2554
<b>B63</b> Asymptotic expansion formula for the maximum of solutions to diffusive logistic equation	Tetsutaro Shibata	Electronic Journal of Differential Equations, <b>2008</b> , 161 (2008) pp. 1-7
<b>B64</b> Asymptotic behavior of bifurcation branch of positive solutions for semilinear Sturm-Liouville problems	Tetsutaro Shibata	Annales Henri Poincare , <b>9</b> (2008) pp. 1217-1227
<b>B65</b> $L^q$ -inverse spectral problems for semilinear Sturm-Liouville problems	Tetsutaro Shibata	Nonlinear Analysis , <b>69</b> , 10 (2008) pp. 3601-3609
<b>B66</b> Multi-load level reactive power planning considering slow and fast VAR devices by means of particle swarm optimization	Mehdi Eghbal Naoto Yorino E.E. El-Araby Yoshifumi Zoka	IET Generation, Transmission & Distribution, <b>2</b> , 5 (2008) pp. 743-751
<b>B67</b> Application and Comparison of Metaheuristic Techniques to Reactive Power Planning	Mehdi Eghbal Naoto Yorino Yoshifumi Zoka E.E. El-Araby	IEEJ Transactions on Electrical and Engineering, <b>3</b> , 6 (2008) pp. 721-730

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>B68</b> Advanced and intelligent technologies for reliable operation of power systems and electricity markets	Ryuichi Yokoyama Tsutomu Oyama Naoto Yorino Tadao Ishikawa Hiroyuki Mori Takashi HIyama	IEEJ Transactions on Electrical and Electronic Engineering, <b>3</b> , 5 (2008) pp. 464-472
<b>B69</b> Application of Evolutionary Multi Objective Optimization Algorithm to Optimal VAR Expansion and ATC Enhancement Problems	Mehdi Eghbal Naoto Yorino Yoshifumi Zoka E.E. El-Araby	International Journal of Innovations in Energy Systems and Power, <b>3</b> , 2 (2008) pp. 6-11
<b>B70</b> Dynamic Security Constrained VAR Planning for Competitive Environments	Naoto Yorino Mehdi Eghbal E.E. El-Araby Yoshifumi Zoka	Proc. of Power and Energy Society General Meeting, (2008) pp. 1-8
<b>B71</b> Application of Evolutionary Multiobjective Optimization Algorithm to Optimal VAR Expansion and ATC Enhancement Problem	Mehdi Eghbal Naoto Yorino E.E. El-Araby Yoshifumi Zoka	Proc. of 16th Power System Computation Conference 2008, (2008) pp. 14-18
<b>B72</b> Transient Stability Assessment as Boundary Value Problem	Ardyono Priyadi Naoto Yorino Mehdi Eghbal Yoshifumi Zoka Yutaka Sasaki Hajime Yasuda Hironori Kakui	Proc. of Electrical Power and Energy Conference (EPEC2008), (2008) pp. 6-7
<b>B73</b> Optimal VAR Expansion Considering ATC Using Strength Pareto Evolutionary Algorithm	Mehdi Eghbal Naoto Yorino E.E. El-Araby Yoshifumi Zoka	Proc. of North American Power Symposium 2008 (NAPS2008), (2008)
<b>B74</b> Application of Multi-Objective Evolutionary Optimization Algorithms to Reactive Power Planning Problem	Mehdi Eghbal Naoto Yorino Yoshifumi Zoka	Proc. of 4th International Workshop on Computational Intelligence and Applications (IWCIA2008), (2008) pp. 165-170
<b>B75</b> Benchmarking of Generation and Distribution Units in Nepal Using Modified DEA Models	Deependra Kumar Jha Naoto Yorino Yoshifumi Zoka	IEEJ Transactions on Power & Energy, <b>128</b> , 9 (2008) pp. 1082-1090
<b>B76</b> Penalty Factor Approach of Minimizing Spill in Finding Operating Policy for Reservoir of a Hydropower Plant	Deependra Kumar Jha Naoto Yorino Yoshifumi Zoka Yutaka Sasaki Yuki Hayashi Kazunoni Iwata Ryuji Oe	Proc. of The 2008 International Conference on Computer and Electrical Engineering (ICCEE 2008), (2008) pp. 3-7
<b>B77</b> Critical Trajectory Method for Transient Stability Analysis	Ardyono Priyadi Naoto Yorino Deependra Kumar Jha Yoshifumi Zoka Yutaka Sasaki Hajime Yasuda Hironori Kakui	Proc. of The 2008 International Conference on Computer and Electrical Engineering (ICCEE 2008), (2008) pp. 291-295
<b>B78</b> SDP Based Reservoir Operating Policy for Hydro-electric Plants: A single reservoir Application	Deependra Kumar Jha Naoto Yorino Hasitha Bimsara Ariyaratne Yoshifumi Zoka Yuki Hayashi Kazunoni Iwata Ryuji Oe	Proc. of The International Conference on Electrical Engineering (ICEE 2008), (2008)
<b>B79</b> Analyzing Performance of Distribution System in Nepal and Investigating Possibility of Re-organization of Distribution Centers	Deependra Kumar Jha Naoto Yorino Yoshifumi Zoka	Proc. of DRPT 2008 IEEE International Conference, (2008)

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>B80</b> An Economic and Reliability Evaluation for the Operation of Distributed Energy Resources	Yutaka Sasaki Naoto Yorino Yoshifumi Zoka	Proc. of the International Symposium on Sustainable Energy 2008, (2008) pp. 103-106
<b>B81</b> Performance Evaluations of AR, CPS, MAC as LFC Indices	Naoto Yorino Yoshifumi Zoka Hikaru Nakayama Yuji Ohnishi Yutaka Sasaki Mohd Hafiz Habi Bud-din	Proc. of the International Symposium on Sustainable Energy 2008, (2008) pp. 167-170
<b>B82</b> Optimal VAR Allocation By Means of Heuristic Techniques	Mehdi Eghbal Naoto Yorino Yoshifumi Zoka Yutaka Sasaki E.E.El-Araby Rony Seto Wibowo	Proc. of the International Symposium on Sustainable Energy 2008, (2008) pp. 171-174
<b>B83</b> Sensitivity Analysis to Operation Margin of Zone 3 Impedance Relays With Bus Power and Shunt Susceptance	Shenghu Li Naoto Yorino M. Ding Yoshifumi Zoka	IEEE Trans. on Power Delivery, <b>23</b> , 1 (2008) pp. 102-108
<b>B84</b> Analysis of Current Density and Specific Absorption Rate in Biological Tissue Surrounding Transcutaneous Transformer for an Artificial Heart	Kenji Shiba Masayuki Nukaya Toshio Tsuji Kohji Koshiji	IEEE Transactions on Biomedical Engineering, <b>55</b> , 1 (2008) pp. 205-213
<b>B85</b> Bio-mimetic Impedance Control of Robotic Manipulator for Dynamic Contact Tasks	Toshio Tsuji Yoshiyuki Tanaka	Robotics and Autonomous Systems, <b>56</b> , 4 (2008) pp. 306-316
<b>B86</b> Energy Transmission Transformer for a Wireless Capsule Endoscope: Analysis of Specific Absorption Rate and Current Density in Biological Tissue	Kenji Shiba Tomohiro Nagato Toshio Tsuji Kohji Koshiji	IEEE Transactions on Biomedical Engineering, <b>55</b> , 7 (2008) pp. 1864-1871
<b>B87</b> A Neural Network Model of the Olfactory System of Mice: Computer Simulation of the Attention Behavior of mice for some components in an odor	Zu Soh Toshio Tsuji Michiyo Suzuki Noboru Takiguchi Hisao Ohtake	Artificial Life and Robotics, <b>12</b> , 1-2 (2008) pp. 75-80
<b>B88</b> Pattern discrimination method with a boosting approach using hierarchical neural trees	Masaru Okamoto Keisuke Shima Yukihiro Matsubara Toshio Tsuji	Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering, <b>222</b> , 7 (2008) pp. 701-710
<b>B89</b> A Neural Network Model of the Olfactory System of Mice: Simulated Tendency of Attention Behavior	Zu Soh Toshio Tsuji Noboru Takiguchi Hisao Ohtake	Artificial Life and Robotics, <b>13</b> , 1 (2008) pp. 280-285
<b>B90</b> An Optimum Design of Robotic Food Handling by Using Burger Model	Naoki Sakamoto Mitsuru Higashimori Toshio Tsuji Makoto Kaneko	Intelligent Service Robotics, (2008)
<b>B91</b> Effects of Ionizing Radiation on Locomotory Behavior and Mechanosensation in <i>Caenorhabditis elegans</i>	Michiyo Suzuki Tetsuya Sakashita Sumino Yanase Masahiro Kikuchi Hirofumi Ohba Atsushi Higashitani Nobuyuki Hamada Tomoo Funayama Kana Fukamoto Toshio Tsuji Yasuhiko Kobayashi	Journal of Radiation Research, (2008)

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>B92</b> Functional interactions between the cerebellum and the premotor cortex for error correction during the slow rate force production task: An fMRI Study	Yoshiyuki Tanaka Naoki Fujimura Toshio Tsuji Masaharu Maruishi Hiroyuki Muranaka Tatsuya Kasai	Experimental Brain Research , (2008)
<b>B93</b> A SPEECH SYNTHESIZER USING FACIAL EMG SIGNALS	Toshio Tsuji Nan Bu Jun Arita Makoto Ohga	International Journal of Computational Intelligence and Applications, 7, 1 (2008) pp. 1-15
<b>B94</b> Parameter Estimation of Paramecium Model using Real-coded Genetic Algorithm	Akira Hirano Zu Soh Toshio Tsuji Noboru Takiguchi Hisao Ohtake	The 13th International Symposium on Artificial Life and Robotics, (2008) pp. 35-40
<b>B95</b> A neural network model of the olfactory system of mice: Simulated the tendency of attention behavior	Zu Soh Toshio Tsuji Noboru Takiguchi Hisao Ohtake	The 13th International Symposium on Artificial Life and Robotics, (2008) pp. 537-542
<b>B96</b> Piercing Based Grasping by Using Self-Tightening Effect	Naoki Sakamoto Mitsuru Higashimori Toshio Tsuji Makoto Kaneko	IEEE International Conference on Robotics and Automation, (2008) pp. 4055-4060
<b>B97</b> Real-Time Hand and Eye Coordination for Flexible Impedance Control of Robot Manipulator	Mutsuhiro Terauchi Yoshiyuki Tanaka Toshio Tsuji	Proceedings of 2nd International Workshop on Robot Vision, Rob-Vis 2008 Lecture Notes in Computer Science, 4931 (2008) pp. 303-318
<b>B98</b> A Tapping Interface for Finger Movement Training Using Magnetic Sensors	Keisuke Shima Toshio Tsuji Akihiko Kandori Masaru Yokoe Saburo Sakoda	Proceedings of the 2008 IEEE International Conference on Systems, Man and Cybernetics (SMC 2008), (2008) pp. 2597-2602
<b>B99</b> Modeling and Evaluation of Human Motor Skills in a Virtual Tennis Task	Yoshiyuki Tanaka Masataka Ishii Toshio Tsuji Nobuaki Imamura	Proceedings of the 30th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, (2008) pp. 4190-4193
<b>B100</b> Measurement and Evaluation of Finger Tapping Movements Using Magnetic Sensors	Keisuke Shima Toshio Tsuji Eriko Kan Akihiko Kandori Masaru Yokoe Saburo Sakoda	Proceedings of the 30th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, (2008) pp. 5628-5631
<b>B101</b> Measuring Muscle Movements for Human Interfaces using a Flexible Piezoelectric Thin Film Sensor	Nan Bu Junpei Tsukamoto Naohiro Ueno Keisuke Shima Toshio Tsuji	Proceedings of the 30th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, (2008) pp. 112-116
<b>B102</b> Directional Properties of Human Hand Force Perception in the Maintenance of Arm Posture	Yoshiyuki Tanaka Toshio Tsuji	Neural Information Processing (14th International Conference, ICONIP 2007), (2008) pp. 933-942
<b>B103</b> A Diagnosis Support System for Finger Tapping Movements Using Magnetic Sensors and Probabilistic Neural Networks	Keisuke Shima Toshio Tsuji Akihiko Kandori Masaru Yokoe Saburo Sakoda	ICBME2008 - 13th International Conference on Biomedical Engineering (IFMBE Proceedings), 23 (2008) pp. 682-686

## Published Papers

---

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>B104</b> A New Approach to Evaluation of Reactive Hyperemia Based on Strain-gauge Plethysmography Measurements and Viscoelastic Indices	Abdugheni Kutluk Takahiro Minari Kenji Shiba Toshio Tsuji Ryuji Nakamura Noboru Saeki Masashi Kawamoto Hidemitsu Miyahara Yukihito Higashi Masao Yoshizumi	ICBME2008 - 13th International Conference on Biomedical Engineering (IFMBE Proceedings), <b>23</b> (2008) pp. 2059-2063
<b>B105</b> A Novel Channel Selection Method Based on Partial KL Information Measure for EMG-based Motion Classification	Taro Shibanoki Keisuke Shima Toshio Tsuji Akira Otsuka Takaaki Chin	CBME2008 - 13th International Conference on Biomedical Engineering (IFMBE Proceedings), <b>23</b> (2008) pp. 694-698
<b>B106</b> A Motion-based Evaluation System for Infant Movements Using Real-time Video Analysis	Yuko Osawa Keisuke Shima Nan Bu Tokuo Tsuji Toshio Tsuji Idaku Ishii Hiroshi Matsuda Kensuke Orito Tomoaki Ikeda Shunichi Noda	ICBME2008 - 13th International Conference on Biomedical Engineering (IFMBE Proceedings), <b>23</b> (2008) pp. 2043-2047
<b>B107</b> EMG Pattern Classification using Hierarchical Network based on Boosting Approach	Masaru Okamoto Yukihiro Matsubara Keisuke Shima Toshio Tsuji	2008 International Symposium on Intelligent Informatics (ISII2008), (2008)
<b>B108</b> Neuro-based Pattern Classification Method for EMG Signals not Belonging to Predefined Classes	Masaru Okamoto Yukihiro Matsubara Nan Bu Toshio Tsuji	Proceedings of 11th International Conference on Human and Computers (HC-2008), (2008) pp. 163-168
<b>B109</b> Development of a Training-Assist Robotic System Adapting to Individual Motor Abilities in Virtual Tennis Task	Masataka Ishii Yoshiyuki Tanaka Toshio Tsuji Nobuaki Imamura	Proceedings of the 4th International Workshop on Computational Intelligence and Applications 2008 (IWCIA 2008), (2008) pp. 179-184
<b>B110</b> Automatic Scratching Pattern Detection for Laboratory Mice Using High-Speed Video Images	Idaku Ishii Shogo Kurozumi Kensuke Orito Hiroshi Matsuda	IEEE Transactions on Automation Science and Engineering, <b>5</b> , 1 (2008) pp. 176-182
<b>B111</b> High-speed Video Analysis of Laboratory Rats Behaviors in Forced Swim Test	Yuman Nie Idaku Ishii Kenkichi Yamamoto Takeshi Takaki Kensuke Orito Hiroshi Matsuda	IEEE Conference on Automation Science and Engineering, (2008)

## C. Information Engineering

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>C1</b> A New FM Screening Method to Generate Cluster-Dot Binary Images Using the Local Exhaustive Search with FPGA Acceleration	Yasuaki Ito Koji Nakano	International Journal on Foundations of Computer Science, <b>19</b> , 6 (2008) pp. 1373-1386
<b>C2</b> Optimal Initialization for the 1-Dimensional Reconfigurable Mesh	Koji Nakano	Proc. of International Conference on Applications and Principles of Information Science, (2008) pp. 322-325

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>C3</b> A New Hybrid Multitoning Based on the Direct Binary Search	Xia Zhuge Yuki Hirano Koji Nakano	Proc. of International Multi Conference of Engineers and Computer Scientists, <b>1</b> (2008) pp. 627-632
<b>C4</b> Component Labeling for k-Concave Binary Images Using an FPGA	Yasuaki Ito Koji Nakano	Proc. of Workshop on Advances in Parallel and Distributed Computational Models, (2008)
<b>C5</b> Optimized Component Labeling Algorithm for using in Medium Sized FPGAs	Yasuaki Ito Koji Nakano	Proc. of International Conference on Parallel and Distributed Computing, Applications and Technologies, (2008) pp. 171-176
<b>C6</b> An Error Diffusion Based Algorithm for Hiding an Image in Distinct Two Images	Xia Zhuge Koji Nakano	Proc of Internatinal Conference on Computer Science and Software Engineering, (2008) pp. 684-687
<b>C7</b> Processor, Assembler, and Compiler Design Education using an FPGA	Koji Nakano Yasuaki Ito	Proc. of International Conference on Parallel and Distributed Systems, (2008) pp. 723-728
<b>C8</b> The Impact of Backup Routes on the Routing and Wavelength Assignment Problem	Simone Chagas Eber Cayo Koji Nakano Jacir Bordim	Proc. of Network Centric Ubiquitous Systems , (2008) pp. 519-523
<b>C9</b> MAC Layer Misbehavior on Ad Hoc Networks	Nicole Nagel Ruzbeh Shokranian Jacir Bordim Koji Nakano	Proc. of Network Centric Ubiquitous Systems, <b>538</b> , 542 (2008)
<b>C10</b> A Tiny Processing System for Education and Small Embedded Systems on the FPGAs	Koji Nakano Kensuke Kawakami Koji Shigemoto Yuki Kamada Yasuaki Ito	Proc. of Embedded Software Optimization, (2008) pp. 472-479
<b>C11</b> Accelerating Montgomery Modulo Multiplication for Redundant Radix-64k Number System on the FPGA using Dual-Port Block RAMs	Koji Shigemoto Kensuke Kawakami Koji Nakano	Proc. of International Conference on Embedded and Ubiquitous Computing, (2008) pp. 44-51
<b>C12</b> Redundant Radix-2 <sup>r</sup> Number System for Accelerating Arithmetic Operations on the FPGAs	Kensuke Kawakami Koji Shigemoto Koji Nakano	Proc. of International Conference on Parallel and Distributed Computing, Applications and Technologies, (2008) pp. 370-377
<b>C13</b> An Efficient Scheduling Scheme for Assigning Transmission Opportunity in QoS-Guaranteed Wireless Lan	Shigeaki Tagashira Masahiro Yamane Satoshi Fujita	IEICE Trans. Fundamentals of Electronics, Communications and Computer Sciences, <b>E91-A</b> , 7 (2008) pp. 1562-1569
<b>C14</b> A New Caching Technique to Support Conjunctive Queries in P2P DHT	Koji Kobatake Shigeaki Tagashira Satoshi Fujita	IEICE Trans. Information and Systems, <b>E91-D</b> , 4 (2008) pp. 1023-1031
<b>C15</b> Dense Skip Graphs as an Overlay for P2p Networks SuppGrap	Satoshi Fujita	Proc. International Conference on Parallel and Distributed Computing and Systems (PDCS2008), (2008) pp. 303-306
<b>C16</b> Clustered Assignment of Ccqs in Information Monitoring		

## Published Papers

---

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>C18</b> A Barrier Synchronization Protocol for Broadcast Networks Based on Dynamic Access Control	Satoshi Fujita Shigeaki Tagashira	Proc. the 2008 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA 2008), <b>1</b> (2008) pp. 83-88
<b>C19</b> Dynamic and Secure User Management in Networked Consumer Electronics	Tatsuya Tokunaga Satoshi Fujita	Proc. the 2008 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA 2008), <b>2</b> (2008) pp. 451-457
<b>C20</b> Maximum Connected Domatic Partition of Directed Path Graphs with Single Junction	Masaya Mito Satoshi Fujita	Computing and Combinatorics, 14th Annual International Conference, COCOON 2008, LNCS, <b>5092</b> (2008) pp. 15-24



---

<b>Paper Title</b>	<b>Author Name</b>	<b>Journal, Vol., No. (Year) Page</b>
<b>C32</b> Estimates of a certain sum involving coefficients of cusp forms in weight and level aspects	Yumiko Ichihara	Lithuanian Math. J., <b>No. 2</b> , vol. 48 (2008) pp. 188-202
<b>C33</b> Experimental study on performance of view-based pose estimation	Toru Tamaki Hiroyuki Okugawa Toshiyuki Amano Kazufumi Kaneda	Proc. of FCV2008 ; the 14th Korea-Japan Joint Workshop on Frontiers of Computer Vision, (2008) pp. 428-433
<b>C34</b> Comparative study of path normalization for path prediction	Yuji Shinomura Tomotaka Harano Toru Tamaki Toshiyuki Amano Kazufumi Kaneda Seiichi Uchida	Proc. of FCV2008 ; the 14th Korea-Japan Joint Workshop on Frontiers of Computer Vision, (2008) pp. 284-289
<b>C35</b> Feature extraction from images of endoscopic large intestine	Masashi Hirota Toru Tamaki Kazufumi Kaneda Shigeto Yosida Shinji Tanaka	Proc. of FCV2008 ; the 14th Korea-Japan Joint Workshop on Frontiers of Computer Vision, (2008) pp. 94-99
<b>C36</b> Non-rigid Image Registration for Medical Diagnosis Using Free-form Deformation with Multiple Grids	Toru Higaki Kazufumi Kaneda Toru Tamaki Nobutaka Date Shogo Azemoto	Journal of the IIEEJ, <b>37</b> , 3 (2008) pp. 286-292
<b>C37</b> An Experimental Use of Learning Environment for Problem-Posing as Sentence-Integration in Arithmetical W tion		

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>C46</b> A Design Experiment in Elementary Science Lesson Using Concept Mapping Software for Reconstructing Learning Processes: Conceptual Understanding of "Three States of Matter"	Akiko Deguchi Shigenori Inagaki Etsuji Yamaguchi Hideo Funaoi	Proceedings of Third Int. Conference on Concept Mapping 2008, <b>1</b> (2008) pp. 30-36
<b>C47</b> A Recursive Padding Technique on Nondeterministic Cellular Automata	Chuzo Iwamoto Harumasa Yoneda Kenichi Morita Katsunobu Imai	IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, <b>E91-A</b> , 9 (2008) pp. 2335-2340
<b>C48</b> Reversible computing and cellular automata - A survey	Kenichi Morita	Theoretical Computer Science, <b>395</b> , 1 (2008) pp. 101-131
<b>C49</b> A 24-state universal one-dimensional reversible cellular automaton	Kenichi Morita	Proc. AUTOMATA 2008, Luniver Press, (2008) pp. 106-112
<b>C50</b> Computing by swarm network	Teijiro Isokawa Ferdinand Peper Masahiko Mitsui Jian-Qin Liu Kenichi Morita Hiroshi Umeo Naotake Kamiura Nobuyuki Matsui	Proc. 8th Int. Conf. on Cellular Automata for Research and Industry, Springer-Verlag, <b>LNCS 5191</b> (2008) pp. 50-59
<b>C51</b> An asynchronous cellular automaton implementing 2-state 2-input 2-output reversed-twin reversible elements	Jia Lee Ferdinand Peper Susumu Adachi Kenichi Morita	Proc. 8th Int. Conf. on Cellular Automata for Research and Industry, Springer-Verlag, <b>LNCS 5191</b> (2008) pp. 67-76
<b>C52</b> A construction method of Moore neighborhood number-conserving cellular automata	Naonori Tanimoto Katsunobu Imai	Proc. 8th Int. Conf. on Cellular Automata for Research and Industry, Springer-Verlag, <b>LNCS 5191</b> (2008) pp. 244-251
<b>C53</b> Simulations between triangular and hexagonal number-conserving cellular automata	Katsunobu Imai Bruno Martin	Proc. 3rd International Workshop on Natural Computing, IWNC 2008, Yokohama, (2008) pp. 16-26
<b>C54</b> Calabi-Yau threefolds arising from fiber products of rational quasi-elliptic surfaces, II	Masayuki Hirokado Hiroyuki Ito Natsuo Saito	Manuscripta Math., <b>125</b> , 3 (2008) pp. 325-343
<b>C55</b> Deformation of a singularity of type E8 and Mordell-Weil lattices in characteristic 2	Hiroyuki Ito	Math. Nachr., (2008)
<b>C56</b> Recurrence times and large deviations	Yong Moo Chung	Trends in Mathematics, <b>10</b> , 2 (2008) pp. 131-157
<b>C57</b> A structure of $\text{Hom}_g(\mathfrak{g} \otimes \mathfrak{g})$ and an application	Fujio Kubo	Proc. 23rd Summer Seminar on Lie Algebras and Related topics, (2008) pp. 19-25
<b>C58</b> Estimating periodic software rejuvenation schedule in discrete operational circumstance	K. Iwamoto T. Dohi N. Kaio	IEICE Transactions on Information & Systems (D), <b>E91-D</b> , 1 (2008) pp. 23-31
<b>C59</b> Bivariate extension of discrete software reliability modeling with number of test cases	T. Ishii T. Fujiwara Tadashi Dohi	International Journal of Reliability, Quality and Safety Engineering, <b>15</b> , 1 (2008) pp. 1-17
<b>C60</b> Software reliability modeling based on mixed Poisson distributions	H. Okamura T. Dohi	International Journal of Reliability, Quality and Safety Engineering, <b>15</b> , 1 (2008) pp. 9-32

<b>Paper Title</b>	<b>Author Name</b>	<b>Journal, Vol., No. (Year) Page</b>
<b>C61</b> Determining EMQ for an unreliable manufacturing system in discrete time setting	B. C. Giri T. Dohi	International Journal of Operational Research, <b>3</b> , 5 (2008) pp. 557-574
<b>C62</b> Optimizing security measures in an intrusion tolerant database system	T. Uemura T. Dohi	Service Availability: 5th International Service Availability Symposium (ISAS 2008), Lecture Notes in Computer Science, <b>5017</b> (2008) pp. 26-42
<b>C63</b> Analysis of a software system with rejuvenation, restoration and checkpointing	H. Okamura T. Dohi	Service Availability: 5th International Service Availability Symposium (ISAS 2008), Lecture Notes in Computer Science, <b>5017</b> (2008) pp. 110-128
<b>C64</b> Simulation-based optimization approach for software cost model with rejuvenation	H. Eto T. Dohi J. Ma	The 5th International Conference on Autonomic and Trusted Computing (ATC 2008), Lecture Notes in Computer Science, <b>5060</b> (2008) pp. 206-218
<b>C65</b> Latent class analysis model for cyber-attack detection	Y. Sakai K. Rinsaka T. Dohi	Proceedings of 2008 Asian International Workshop on Advanced Reliability Modeling (AIWARM 2008), (2008) pp. 79-86
<b>C66</b> Estimating an economic testing policy in discrete-time burn-in circumstance	T. Dohi N. Shibata N. Kaio	Proceedings of 2008 Asian International Workshop on Advanced Reliability Modeling (AIWARM 2008), (2008) pp. 273-280
<b>C67</b> A repair-limit replacement policy with retry	H. Okamura T. Dohi	Proceedings of 2008 Asian International Workshop on Advanced Reliability Modeling (AIWARM 2008), (2008) pp. 289-296
<b>C68</b> Estimating renewal functions: a neural network-based approach	T. Dohi S. Osaki	Proceedings of 2008 Asian International Workshop on Advanced Reliability Modeling (AIWARM 2008), (2008) pp. 414-421
<b>C69</b> How good is gamma process modeling for software reliability assessment	L. Z. Jin T. Dohi	Proceedings of 2008 Asian International Workshop on Advanced Reliability Modeling (AIWARM 2008), (2008) pp. 567-574
<b>C70</b> Adaptive software rejuvenation schedule based on non-parametric predictive inference: an expected cost model	K. Rinsaka T. Dohi	Proceedings of 2008 Asian International Workshop on Advanced Reliability Modeling (AIWARM 2008), (2008) pp. 591-598
<b>C71</b> Estimating a mixture of Erlang distributions based on variational Bayes	Y. Yamaguchi H. Okamura T. Dohi	Proceedings of 2008 Asian International Workshop on Advanced Reliability Modeling (AIWARM 2008), (2008) pp. 619-626
<b>C72</b> Availability modeling of an intrusion tolerant system with preventive maintenance	T. Uemura T. Dohi N. Kaio	Proceedings of 2008 Asian International Workshop on Advanced Reliability Modeling (AIWARM 2008), (2008) pp. 655-662
<b>C73</b> Availability optimization in operational software system with aperiodic time-based rejuvenation scheme	H. Okamura T. Dohi	Supplementary Proceedings of 19th International Symposium on Software Reliability Engineering (IS-SRE'08), (2008)

## Published Papers

---

Paper Title	Author Name	Journal, Vol., No. (Year) Page
C74 Non-parametric predictive inference of adaptive software		

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>C89</b> Observer Performance in Diagnosing Osteoporosis by Dental Panoramic Radiographs: Results from the Osteoporosis Screening Project in Dentistry (OSPD),	Akira Taguchi Akira Asano Masahiko Ohtsuka Takashi Nakamoto Yoshikazu Suei Mikio Tsuda Yoshiki Kudo Koji Inagaki Toshihide Noguchi Keiji Tanimoto Reinhilde Jacobs Esa Klemetti Stuart C. White Keith Horner OSPD International Collaborative Group	BONE, <b>43</b> , 1 (2008) pp. 209-213
<b>C90</b> A computer-aided diagnosis system to screen for osteoporosis using dental panoramic radiographs	Takashi Nakamoto Akira Taguchi Masahiko Ohtsuka Yoshikazu Suei Mikio Tsuda Mitsuhiro Sanada Yoshiki Kudo Akira Asano Keiji Tanimoto	Dentomaxillofacial Radiology, <b>37</b> , 5 (2008) pp. 274-281
<b>C91</b> Measurement of surface property using a special sensor developed for pile materials	Takako Fujimoto Mathew R. Sunderland Surrinder K. Tandon Chie Muraki Asano Akira Asano Choji Murata Hiroaki Fukuyama	Indian Journal of Fibre & Textile Research, <b>33</b> , 3 (2008) pp. 253-257
<b>C92</b> Evaluation of Human Visual Impressions in Gray Scale Textures Using Morphological Manipulation	Liang Li Akira Asano Chie Muraki Asano	Proc. 8th International Conference on Hybrid Intelligent Systems (HIS2008), (2008) pp. 114-119
<b>C93</b> Mandibular width measurement on dental panoramic radiographs using multistage adaptive thresholding and genetic algorithm	Agus Zainal Arifin Dini Adni N Anny Yuniart Wijayanti Nurul K Arifzan Razak Akira Asano Akira Taguchi	Proc. 6th Kumamoto University Forum, (2008) pp. 22-23
<b>C94</b> The large-time behavior of solutions of Hamilton-Jacobi equations on the real line	Naoyuki Ichihara Hitoshi Ishii	Methods and Applications of Analysis, <b>15</b> , 2 (2008) pp. 223-242
<b>C95</b> A dynamical approach to asymptotic solutions of Hamilton-Jacobi equations	Naoyuki Ichihara	Proceedings of the International Conference for the 25th Anniversary of Viscosity Solution, (2008) pp. 107-115
<b>C96</b> Asymptotic solutions of Hamilton-Jacobi equations with semi-periodic Hamiltonians	Naoyuki Ichihara Hitoshi Ishii	Communications in Partial Differential Equations, <b>33</b> , 5 (2008) pp. 784-807
<b>C97</b> Attribute Selection for Numerical Databases that Contain Correlations	Taufik Djatna Yasuhiko Morimoto	International Journal of Software Informatics, <b>2</b> , 2 (2008) pp. 125-140
<b>C98</b> Feature Selection for Databases that Contain Correlated Attributes by Using Two Dimensional Rules	Taufik Djatna Yasuhiko Morimoto	International Workshop on Data-Mining and Statistical Science, (2008) pp. 48-51
<b>C99</b> Algorithm for Computing Skyline ObjectSet on Numerical Databases	Md. Anisuzzaman Sidique Taufik Djatna Yasuhiko Morimoto	International Workshop on Data-Mining and Statistical Science, (2008) pp. 40-43

## D. Chemistry and Chemical Engineering

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>D1</b> Facile Synthesis of New Full-Color-Emitting BCNO Phosphors with High Quantum Efficiency	T. Ogi Y. Kaihatsu F. Iskandar W. N. Wang K. Okuyama	Adv. Mater., <b>20</b> , 17 (2008) pp. 3235-3238
<b>D2</b> High Luminance YAG:Ce nanoparticles Fabricated from Urea Added Aqueous Precursor by Flame Process	A. Purwanto W.-N. Wang T. Ogi I. W. Lenggoro E. Tanabe K. Okuyama	J. Alloys Compd, <b>463</b> (2008) pp. 350-357
<b>D3</b> Investigation on the Correlation Between Droplet and Particle Size Distribution in Ultrasonic Spray Pyrolysis	W. N. Wnag A. Purwanto I. W. Lenggoro K. Okuyama H. Chang H. D. Jang	Ind. Eng. Chem. Res., <b>47</b> , 5 (2008) pp. 1650-1659
<b>D4</b> Preparation and Characterization of Nano-Pigment - Poly(Styrene-Co-n-Butyl Acrylate-Co-Methacrylic Acid) Composite Particles by High Speed Homogenization-Assisted Suspension Polymerization	H. Widiyandari F. Iskandar N. Hagura K. Okuyama	J. Appl. Polym. Sci., <b>108</b> , 2 (2008) pp. 1288-1297
<b>D5</b> High Performance of GaN Thin Films Grown on Sapphire Substrates Coated with a Silica-Submicron-Sphere Monolayer Film	K. Ueda Y. Tsuchida N. Hagura F. Iskandar K. Okuyama Y. Endo	Appl. Phys. Lett., <b>92</b> , 10 (2008) pp. 101101
<b>D6</b> Optical and electrical properties of indium tin oxide nanofibers prepared by electrospinning	M. M. Munir F. Iskandar K. M. Yun K. Okuyama M. Abdullah	Nanotechnology, <b>19</b> (2008) pp. 145603
<b>D7</b> Beads Mill-Assisted Synthesis of Poly Methyl Methacrylate (PMMA)-TiO <sub>2</sub> Nanoparticle Composites	M. Inkyo Y. Tokunaga T. Tahara T. Iwaki F. Iskandar C. J. Hogan K. Okuyama	Ind. Eng. Chem. Res., <b>47</b> (2008) pp. 2597-2604
<b>D8</b> Role of Urea Addition in the Preparation of Tetragonal BaTiO <sub>3</sub> Nanoparticles using Flame Assisted Spray Pyrolysis	Y. Terashi A. Purwanto W. N. Wang F. Iskandar K. Okuyama	J. Eur. Ceram. Soc., <b>28</b> (2008) pp. 2573-2580
<b>D9</b> Rapid Synthesis of Non-aggregated Fine Chloroapatite Blue Phosphors with High Quantum Efficiency	W.-N. Wnag F. Iskandar K. Okuyama Y. Shinomiya	Adv. Mater., <b>20</b> , 18 (2008) pp. 3422-3426
<b>D10</b> Multilayer film deposition of Ag and SiO <sub>2</sub> nanoparticles using a spin coating process	S.-G. Kim N. Hagura F. Iskandar A. Yabuki K. Okuyama	Thin Solid Films, <b>516</b> , 23 (2008) pp. 8721-8725
<b>D11</b> Breakaway properties of film formed on copper and copper alloys in erosion-corrosion by mass transfer equation	A. Yabuki M. Murakami	Materials and Corrosion, <b>59</b> , 1 (2008) pp. 25-31

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>D12</b> High-concentration Transparent TiO <sub>2</sub> Nanocomposite Films Prepared from TiO <sub>2</sub> Nanosurry Dispersed by Using Beads Mill	M. Takeda E. Tanabe T. Iwaki A. Yabuki K. Okuyama	Polym., <b>40</b> , 8 (2008) pp. 694-699
<b>D13</b> Photoluminescence Properties of Sub-micrometer Phosphors with Different Particle/Crystallite Sizes	T. Minami W.-N. Wang F. Iskandar K. Okuyama	Jpn. J. Appl. Phys., <b>47</b> , 9 (2008) pp. 7220-7223
<b>D14</b> Pore size-controlled synthesis and characterization of nanostructured silica particles	H. Chang S.-J. Kim H.-D. Jang T.-O. Kim K. Okuyama	Ultramicroscopy, <b>108</b> (2008) pp. 1260-1265
<b>D15</b> Fabrication of porous nanostructured TiO <sub>2</sub> particles by an aerosol templating method	H.-D. Jang H. Chang K. Cho S.-J. Kim J.-H. Park J.-W. Choi K. Okuyama	Ultramicroscopy, <b>108</b> (2008) pp. 1241-1245
<b>D16</b> Patterned indium tin oxide nanofiber films and its electrical and optical performance	M. M. Munir H. Widiyandari F. Iskandar K. Okuyama	Nanotechnology, <b>19</b> (2008) pp. 375601
<b>D17</b> Nano-sized Polymer Particle-Facilitated Preparation of Mesoporous Silica Particles Using a Spray Method	A. B. D. Nandiyanto F. Iskandar K. Okuyama	Chemistry Letters, <b>37</b> , 10 (2008) pp. 1040-1041
<b>D18</b> A constant-current electrospinning system for production of high quality nanofibers	M. M. Munir F. Iskandar Khairurrijal K. Okuyama	Rev. Sci. Instrum., <b>79</b> , 12 (2008) pp. 093904
<b>D19</b> Single crystal ZnO:Al nanoparticles directly synthesized using low-pressure spray pyrolysis	D. Hidayat T. Ogi F. Iskandar K. Okuyama	Mater. Sci. Eng. B, <b>151</b> (2008) pp. 231-237
<b>D20</b> Synthesis of Monophasic Ca <sub>x</sub> Ba <sub>(1-x)</sub> TiO <sub>3</sub> Nanoparticles with High Ca content (x > 23%) and Their Photoluminescence Properties	A. Purwanto D. Hidayat Y. Terashi K. Okuyama	Chem. Mater., <b>20</b> , 24 (2008) pp. 7440-7446
<b>D21</b> Phase behavior for the supercritical ethylene + hexane + polyethylene systems	Masashi Haruki Yuboku Takakura Hiroaki Sugiura Shin-ichi Kihara Shigeki Takishima	J. Supercritical Fluids, <b>44</b> (2008) pp. 284-293
<b>D22</b> Preparation of molecular imprinted thermosensitive gels grafted onto polypropylene by plasma-initiated graft polymerization	Hideaki Tokuyama Shinji Naohara Masaru Fujioka Shuji Sakohara	Reactive and Functional Polymers, <b>68</b> , 1 (2008) pp. 182-188
<b>D23</b> Preparation of ZnO nanoparticles in amphiphilic gel network	Shuji Sakohara Kazuya Mori	J. Nanoparticle Research, <b>10</b> , 2 (2008) pp. 297-305
<b>D24</b> Porous poly(N-isopropylacrylamide) gels polymerized in mixed solvents of water and N,N'-dimethylformamide	Hideaki Tokuyama Noriaki Ishihara Shuji Sakohara	Polymer Bulletin, <b>61</b> , 3 (2008) pp. 399-405
<b>D25</b> Compaction of TiO <sub>2</sub> suspension by using dual ionic thermosensitive polymers	Shuji Sakohara Ryosuke Hinago Hidenori Ueda	Separation and Purification Technology, <b>63</b> , 2 (2008) pp. 319-323
<b>D26</b> Novel pH-thermosensitive gel adsorbents for phosphoric acid	Takehiko Gotoh Takuya Arase Shuji Sakohara	2008 MRS Fall Meeting, Symposium BB, (2008)

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>D27</b> Preparation of asymmetric thermosensitive double-layer gel	Takashi Iizawa Akihiro Terao	2008 MRS Fall Meeting, Symposium V, (2008)
<b>D28</b> Microporous inorganic membranes for high temperature hydrogen purification	Junhang Dong Y.S. Lin Masakoto Kanezashi Zhong Tang	J. Applied Physics, <b>104</b> (2008) pp. 121301-121317
<b>D29</b> Characterization of Co-Doped Silica for Improved Hydrothermal Stability and Application to Hydrogen Separation Membranes at High Temperatures	R. Igi T. Yoshioka Y. H. Ikuhara Y. Iwamoto T. Tsuru	Journal of American Ceramic Society, <b>91</b> (2008) pp. 2975-2981
<b>D30</b> Nano/subnano-tuning of porous ceramic membranes for molecular separation	T. Tsuru	Sol-Gel Science and Technology, <b>46</b> (2008) pp. 349-361
<b>D31</b> Membrane Reactor Performance of Steam Reforming of Methane Using Hydrogen-Permeable Catalytic SiO <sub>2</sub> Membranes	T. Tsuru T. Morita H. Shintani T. Yoshioka M. Asaeda	Journal of Membrane Science, <b>316</b> (2008) pp. 53-62
<b>D32</b> MD simulation studies for effect of membrane structures and dynamics on gas permeation properties through microporous amorphous silica membranes	T. Yoshioka A. Yasumoto K. Kishi T. Tsuru	Desalination, <b>233</b> (2008) pp. 333-341
<b>D33</b> Nanoporous titania membranes for permeation and filtration of organic solutions	T. Tsuru, M. Narita R. Shinagawa T. Yoshioka	Desalination, <b>233</b> (2008) pp. 1-9
<b>D34</b> Effect of multi-inlet flow on particle classification performance of hydro-cyclones	Yoshida, H. S. Yoshikawa K. Fukui T. Yamamoto	Powder Technology, <b>184</b> (2008) pp. 352-360
<b>D35</b> Molecular-scale investigation of polymerization, nucleation, and growth of polystyrene particle by atomic force microscopy	Tetsuya Yamamoto Ko Higashitani	Asia-Pacific Journal of Chemical Engineering, <b>3</b> (2008) pp. 239-249
<b>D36</b> Development of particle size distribution measurement method at high temperature by use of classification during sampling	Tsuji, H. H. Makino H. Yoshida	Powder Technology, <b>180</b> (2008) pp. 190-195
<b>D37</b> Round robin test results of reference particle candidates of sub-micrometer size range	Mori, Y. H. Yoshida H. Masuda	Particle Systems Analysis 2008, (2008)
<b>D38</b> Influence of the Synthesis Conditions on the Characteristics of Nanoparticles Produced in a Nonequilibrium Plasma Field	Yutaka Hayashi Manabu Shimada Kikuo Okuyama	Journal of Chemical Engineering of Japan, <b>41</b> , 2 (2008) pp. 62-68
<b>D39</b> Synthesis and Characterization of N-Acyl-substituted PyrroloTTF Derivatives and Improved Air-stability of PyrroloTTF-based OFETs	Iori Doi Eigo Miyazaki Kazuo Takimiya	Chem. Lett., <b>37</b> , 10 (2008) pp. 1088-1089
<b>D40</b> Raman Spectroscopy Shows Inter-chain through Space Charge Delocalization in a Mixed Valence Oligothiophene Cation and in Its pi-Dimeric Biradicaloid Dication	Casado Juan Kazuo Takimiya Tetsuo Otsubo Ramirez Francisco J. Quirante J. Joaquin Ortiz Rocio Ponce Gonzalez Sandra R. Oliva Maria Moreno Navarrete Juan T. Lopez	J. Am. Chem. Soc., <b>130</b> , 43 (2008) pp. 14028-14029
<b>D41</b> Molecular ordering of high-performance soluble molecular semiconductors and re-evaluation of their field-effect transistor characteristics	Takafumi Izawa Eigo Miyazaki Kazuo Takimiya	Adv. Mater., <b>20</b> , 18 (2008) pp. 3388-3392



Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>D42</b> Antiferromagnetic ordering of the incommensurate organic superconductor (MDT-TS)(AuI <sub>2</sub> )(0.441) with a high spin-flop field	Tadashi Kawamoto Yoshimasa Bando Takehiko Mori Takako Konoike Yamaguchi Takahide Taichi Terashima Shinya Uji Kazuo Takimiya Tetsuo Otsubo	Phys. Rev. B, <b>77</b> , 22 (2008) pp. 2245061-2245065
<b>D43</b> Electrical characteristics of single-component ambipolar organic field-effect transistors and effects of air exposure on them	Tomo Sakanoue Masayuki Yahiro Chihaya Adachi Kazuo Takimiya Akio Toshimitsu	J. Appl. Phys., <b>103</b> , 9 (2008) pp. 0945091-0945096
<b>D44</b> 2,6-dialkylbenzo[1,2-b : 4,5-b']dithiophenes (C-n-BDTs) as soluble organic semiconductors for solution-processed organic field-effect transistors	Tomoya Kashiki Eigo Miyazaki Kazuo Takimiya	Chem. Lett., <b>37</b> , 3 (2008) pp. 284-285
<b>D45</b> Isotropic uniaxial strain effect on the incommensurate organic superconductor: (MDT-TS)(AuI <sub>2</sub> )(0.441)	Yoshimasa Bando Tadashi Kawamoto Takehiko Mori Kazuo Takimiya Tetsuo Otsubo	J. Phys. Soc. Jpn., <b>77</b> , 1 (2008)
<b>D46</b> Giant nonlinear conductivity and spontaneous current oscillation in an incommensurate organic superconductor	Takehiko Mori Yoshimasa Bando Tadashi Kawamoto Ichiro Terasaki Kazuo Takimiya Tetsuo Otsubo	Phys. Rev. Lett., <b>100</b> , 3 (2008) pp. 0370011-0370014
<b>D47</b> Fluorescence up-conversion study of excitation energy transport dynamics in oligothiophene-fullerene linked dyads	Takumi Nakamura Yasuyuki Araki Osamu Ito Kazuo Takimiya Tetsuo Otsubo	J. Phys. Chem. A, <b>112</b> , 6 (2008) pp. 1125-1132
<b>D48</b> A high mobility ambipolar field effect transistor using a 2,6-diphenylbenzo[1,2-b : 4,5-b']diselenophene/fullerene double layer	Shohei Kinoshita Tomo Sakanoue Masayuki Yahiro Kazuo Takimiya Hideaki Ebata Masaaki Ikeda Hirokazu Kuwabara Chihaya Adachi	Solid State Commun., <b>145</b> , 3 (2008) pp. 114-117
<b>D49</b> Structural Aspects of Iodine-Promoted One-Pot Cyclization Of o-Bis(methylthio)stilbenes to Thieno[3,2-b]thiophene Derivatives: Synthetic Trials of Tetrathienoacenes from 1,2-Bis(3-methylthiothiophene-2-yl)ethenes	Tatsuya Yamamoto Eigo Miyazaki Kazuo Takimiya	Heterocycles, <b>76</b> , 1 (2008) pp. 583-593
<b>D50</b> Attachment of Disilanylene-Oligothiénylene Polymers on TiO <sub>2</sub> Surface by Photochemical Cleavage of the Si-Si Bonds	J. Ohshita J. Matsukawa M. Hara A. Kunai S. Kajiwara Y. Ooyama Y. Harima M. Kakimoto	Chem. Lett., <b>37</b> (2008) pp. 316-317
<b>D51</b> Ring Flipping of Seven-membered and Eight-membered Dithienodisila-heterocycles	I.-S. Lee Y.-W. Kwak M. K. Ghosh J. Ohshita C. H. Choi	Bull. Kor. Chem. Soc., <b>29</b> (2008) pp. 377-380
<b>D52</b> Selective Formation of Rearranged Silenes from Polysilylenone via 1,3- and 1,5-Silyl Migration	J. Ohshita J. Morioka H. Kawamoto H. Kobayashi A. Kunai A. Naka	Organometallics, <b>27</b> (2008) pp. 5423-5425

## Published Papers

---

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>D53</b> Disilane- and siloxane-bridged biphenyl and bithiophene derivatives as electron-transporting materials in OLEDs	H. Kai J. Ohshita S. Ohara N. Nakayama A. Kunai I.-S. Lee Y.-W. Kwak	J. Organomet. Chem., <b>693</b> (2008) pp. 3490-3494
<b>D54</b> Synthesis of E-alkenylsilanes with dithienosilole and their electrochemical and optical properties	I-S. Lee Y.-W. Kwak D.-H. Kim Y. Cho J. Ohshita	J. Organomet. Chem., <b>693</b> (2008) pp. 3233-3239
<b>D55</b> Silicon-carbon unsaturated compounds. 75. Thermal isomerization of 2-alkyl- and 2-aryl-2-trimethylsiloxy-1,1-bis(trimethylsilyl)-1-silacyclohex-4-enes	A. Naka S. Ueda J. Ohshita A. Kunai T. Miura H. Kobayashi M. Ishikawa	Organometalics, <b>27</b> (2008) pp. 2922-2928
<b>D56</b> Silicon-carbon unsaturated compounds. 74. Thermal behavior of 1-silacyclobut-3-enes generated from the reaction of ac		

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>D66</b> Highly active copolymerization of ethylene and dicyclopentadiene with $[(\eta^1-t\text{-BuN})\text{SiMe}_2(\eta^1\text{-C}_{29}\text{H}_{36})]\text{TiMe}_2(\text{THF})$ complex	Kei Nishii Shigetaka Hayano Yasuo Tsunogae Zhengguo Cai Yuushou Nakayama Takeshi Shiono	Chem. Lett., <b>37</b> , 6 (2008) pp. 590-591
<b>D67</b> Precise control of microstructure of functionalized polypropylene synthesized by the <i>ansa</i> -zirconocene/MAO catalysts	Hideaki Hagihara Takeshi Ishihara Hoang The Ban Takeshi Shiono	J. Polym. Sci., Part A: Polym. Chem., <b>46</b> , 5 (2008) pp. 1738-1748
<b>D68</b> Ring-opening metathesis polymerization of norbornene catalyzed by tantalum and niobium complexes with chelating O-donor ligands	Yuushou Nakayama Naoaki Maeda Hajime Yasuda Takeshi Shiono	Polym. Int., <b>57</b> , 7 (2008) pp. 950-956
<b>D69</b> Synthesis of poly(ester-urethane)s from hydroxytelechelic polylactide: Effect of initiators on their physical and degradation properties	Yuushou Nakayama Ryo Yamaguchi Chikara Tsutsumi Takeshi Shiono	Polym. Degrad. Stab., <b>03</b> , 1 (2008) pp. 117-124
<b>D70</b> Synthesis, characterization, and thermal properties of ring-opening metathesis polynorbornenes and their hydrogenated derivatives bearing various ester and cyano groups	Yasushi Nishihara Seisuke Izawa Yoshiaki Inoue Yuushou Nakayama Takeshi Shiono Kentarō Takagi	J. Polym. Sci., Part A: Polym. Chem., <b>46</b> , 10 (2008) pp. 3314-3325
<b>D71</b> Bismuth-catalyzed intramolecular hydro-oxycarbonylation of alkynes	Kimihiro Komeyama Keita Takahashi Ken Takaki	Chemistry Letters, <b>38</b> (2008) pp. 602-603
<b>D72</b> Bismuth-catalyzed cyclization of amino-1,6-enynes	Kimihiro Komeyama Motoyoshi Miyagi Ken Takaki	Heteroatom Chemistry, <b>19</b> (2008) pp. 644-648
<b>D73</b> Bismuth-catalyzed intramolecular carbo-oxycarbonylation of 3-alkynyl esters	Kimihiro Komeyama Keita Takahashi Ken Takaki	Organic Letters, <b>10</b> (2008) pp. 5119-5122
<b>D74</b> Study of a novel sample injection method (floating electrokinetic supercharging) for high-performance microchip electrophoresis of DNA fragments	Takeshi Hirokawa Yoichi Takayama Akihiro Arai Zhongqi Xu	Electrophoresis, <b>29</b> (2008) pp. 1829-1835
<b>D75</b> Sensitive determination of anions in saliva using capillary electrophoresis after transient isotachopheric preconcentration	Zhongqi Xu Takayuki Doi Andrei R. Timerbaev Takeshi Hirokawa	Talanta, <b>77</b> (2008) pp. 278-281
<b>D76</b> Electrokinetic sample injection for high-sensitive capillary zone electrophoresis (1): Electrode configuration and setting for high-sensitive analysis	Takeshi Hirokawa Eiji Koshimidzu Zhongqi Xu	Electrophoresis, <b>29</b> (2008) pp. 3786-3793
<b>D77</b> Characterization of Calcium Carbonate Polymorphs with Ca K Edge X-ray Absorption Fine Structure Spectroscopy	Shinjiro Hayakawa Yuki Hajima Shan Qiao Hirofumi Namatame Takeshi Hirokawa	Anal. Sci., <b>24</b> (2008) pp. 835-837
<b>D78</b> Interference and electro-optical Kerr effects responsible for electroabsorption spectra of transparent	Y. Harima T. Hashiguchi Y. Fujikawa K. Komaguchi Y. Ooyama I. Imae	Chem. Phys. Lett., <b>457</b> (2008) pp. 115-118
<b>D79</b> Drastic enhancement of cycle lifetime of electrochromic devices using polysilsesquioxane as an anchoring agent	I. Imae Y. Takenaka D. Tokita Y. Ooyama K. Komaguchi Y. Harima	Chem. Lett., <b>37</b> (2008) pp. 964-965

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>D80</b> Preparation of conducting poly N-methylaniline microsphere and its antibacterial performance to sulfate reducing bacteria	L. Hongfang L. Huang Z. Huang Q. Gongtai K. Sanada Y. Harima	J. Wuhan Univ. Tech. Sci. Ed., <b>23</b> (2008) pp. 536-540
<b>D81</b> Topochemical 3D polymerization of C <sub>60</sub> under high pressure at elevated temperatures	Shoji Yamanaka Nagesh S. Kini Akira Kubo Saeko Jida Hideaki KURamoto	J. Amer. Chem. Soc., <b>130</b> (2008) pp. 4303-4309
<b>D82</b> ternary compound B <sub>4</sub> CN <sub>4</sub> prepared by direct nitridation of B <sub>4</sub> C	Fei Zhuge Shoji Yamanaka	J. Alloys Comp., <b>466</b> (2008) pp. 299-303
<b>D83</b> High-pressure synthesis and structure of new filled skutterudite compounds with Ge-substituted host network; LnRh <sub>4</sub> Sb <sub>9</sub> Ge <sub>3</sub> , Ln=La, Ce, Pr, and Nd	Hiroshi Fukuoka Shoji Yamanaka	Journal of Alloys and Compounds, <b>461</b> (2008) pp. 547-550
<b>D84</b> Reversible emergence of a self-assembled layered structure from three-dimensional isotropic ionic crystal of a cluster compound (4-HNC <sub>5</sub> H <sub>4</sub> OH) <sub>2</sub> Mo <sub>6</sub> Cl <sub>14</sub> driven by absorption of water and alcohols	Kei Inumaru Takashi Kikudome Hiroshi Fukuoka Shoji Yamanaka	J. Am. Chem. Soc., <b>130</b> (2008) pp. 10038-10039
<b>D85</b> High-pressure synthesis of superconducting molybdenum nitride δ-MoN by in situ nitridation	Kei Inumaru Takanori Nishikawa Kazuharu Nakamura Shoji Yamanaka	Chem. Mater., <b>20</b> (2008) pp. 4756-4761
<b>D86</b> Magnetoresistance of ferromagnetic Cr <sub>x</sub> Ti <sub>1-x</sub> N solid solution nitride	Kei Inumaru Yuji Miyaki Kazuma Tanaka Kunihiko Koyama Shoji Yamanaka	Phys. Rev. B, <b>78</b> (2008) pp. 052406/1-4
<b>D87</b> Partial suppression of structural distortion in epitaxially grown BaBiO <sub>3</sub> thin films	Kei Inumaru Hajime Miyata Shoji Yamanaka	Phys. Rev. B., <b>78</b> (2008) pp. 132507/1-4
<b>D88</b> Effects of noble metal-doping on Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> catalysts for water-gas shift reaction -Catalyst preparation by adopting "memory effect" of hydrotalcite-	K. Nishida I. Atake D. Li T. Shishido Y. Oumi T. Sano K. Takehira	Appl. Catal. A, <b>337</b> (2008) pp. 48 -57
<b>D89</b> Preparation and crystal structure of RUB-18 modified for synthesis of zeolite RWR by topotactic conversion	T. Ikeda Y. Oumi T. Takeoka T. Yokoyama T. Sano T. Hanaoka	Microporous Mesoporous Mater., <b>110</b> (2008) pp. 488-500
<b>D90</b> Hydrothermal conversion of FAU zeolite into RUT zeolite in TMAOH system	H. Jon T. Takahashi H. Sasaki Y. Oumi T. Sano	Microporous Mesoporous Mater., <b>113</b> (2008) pp. 56-63
<b>D91</b> Synthesis of lamellar mesostructured calcium phosphates using n-alkylamines as structure-directing agents in alcohol/water mixed solvent systems	N. Ikawa Y. Oumi T. Kimura T. Ikeda T. Sano	J. Mater. Sci., <b>43</b> (2008) pp. 4198-4207
<b>D92</b> An insight into process involved in hydrothermal conversion of FAU to *BEA zeolite	H. Jon N. Ikawa Y. Oumi T. Sano	Chem. Mater., <b>20</b> (2008) pp. 4135-4141

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>D93</b> Synthesis of high-silica CHA zeolite from FAU zeolite in the presence of benzyltrimethylammonium hydroxide	M. Itakura T. Inoue A. Takahashi Y. Oumi T. Sano	Chem. Lett., <b>37</b> (2008) pp. 908-909
<b>D94</b> Effects of structure-directing agents on hydrothermal conversion of FAU type zeolite	H. Jon H. Sasaki T. Inoue M. Itakura S. Takahashi Y. Oumi T. Sano	Stud. Surf. Sci. Catal., <b>174</b> (2008) pp. 229-232
<b>D95</b> Superior catalytic behavior of trace Pt-doped Ni/Mg(Al)O in methane reforming under daily start-up and shut-down operation	D. Li K. Nishida Y. Zhan T. Shishido Y. Oumi T. Sano K. Takehira	Appl. Catal. A, <b>350</b> (2008) pp. 225 -236
<b>D96</b> Templating route for mesostructured calcium phosphates with carboxylic acid- and amine-type surfactants	N. Ikawa H. Hori T. Kimura Y. Oumi T. Sano	Langmuir, <b>24</b> (2008) pp. 13113 -13120
<b>D97</b> Lead immobilization in mechanochemical fly ash recycling	Yugo NOMURA Kazuo FUJIWARA Makoto TAKADA Satoshi NAKAI Masaaki HOSOMI	J. Material Cycles and Waste Management, <b>10</b> (2008) pp. 14-18
<b>D98</b> Photodegradation fates of cis-chlordane, trans-chlordane, and heptachlor in ethanol	Shingo YAMADA Yuta NAITO Masafumi FUNAKAWA Satoshi NAKAI Masaaki HOSOMI	Chemosphere, <b>70</b> , 9 (2008) pp. 1669-1675
<b>D99</b> Photodegradation of hexachlorobenzene and theoretical prediction of its degradation pathways using quantum chemical calculation	Shingo YAMADA Yuta NAITO Makoto TAKADA Satoshi NAKAI Masaaki HOSOMI	Chemosphere, <b>70</b> , 4 (2008) pp. 731-736
<b>D100</b> Photodechlorination of octachlorodibenzothiophene and octachlorodibenzofuran: Comparison of experimental degradation pathways with degradation pathways predicted by DFT	Shingo YAMADA Saeko KISHITA Satoshi NAKAI Makoto TAKADA Masaaki HOSOMI	Chemosphere, <b>73</b> , 6 (2008) pp. 1005-1010
<b>D101</b> Release of anti-cyanobacterial allelochemicals from aquatic and terrestrial plants applicable for artificial floating islands	Satoshi NAKAI Guoyan ZOU Xianfu SONG Qiao PAN Sheng ZHOU Masaaki HOSOMI	Journal of Water and Environment Technology, <b>6</b> , 1 (2008) pp. 55-63
<b>D102</b> Benthic ecosystem developed in artificial tidal flat constructed with dredged soil	Ryo ISHII Yoichi NAKANO Satoshi NAKAI Wataru NISHIJIMA Mitsumasa OKADA	Marine Pollution Bulletin, <b>56</b> , 12 (2008) pp. 2059-2066
<b>D103</b> Anchorage and resistance to uprooting forces of eelgrass ( <i>Zostera marina</i> L.) shoots planted in slag substrates	Amelia B. Hizon-Fradejas Yoichi NAKANO Satoshi NAKAI Wataru NISHIJIMA Mitsumasa OKADA	Proceedings of the 17th Korea-Japan Symposium on Water Environment, (2008) pp. 30-40
<b>D104</b> Ozonation of trichloroethylene in acetic acid solution with soluble and solid humic acid	Alcantara-Garduno Martha E. Okuda, Tetsuji Nishijima, Wataru Okada, Mitsumasa	Journal of Hazardous Materials, <b>160</b> , 2-3 (2008) pp. 662-667

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>D105</b> Experimental and mathematical evaluation of trichloroethylene removal from saturated soil using acetic acid with saturated ozone	Alcantara-Garduno, Martha E. Okuda, Tetsuji Tsai, Tsung-Yueh Nishijima, Wataru Okada, Mitsumasa	Separation and Purification Technology, <b>60</b> , 3 (2008) pp. 299-307
<b>D106</b> Selective recovery of PVC free polymers from ASR polymers by ozonation and froth flotation	Srinivasa Reddy Mal-lampati Keisuke Kurose Tetsuji Okuda Wataru Nishijima Mitsumasa Okada	Resources, Conservation & Recycling, <b>52</b> , 6 (2008) pp. 941-946
<b>D107</b> A novel polymer recycling system for the effective recovery of chloride free polymers from automobile shredder residue	Mallampati Srinivasa Reddy Keisuke Kurose Tetsuji Okuda Wataru Nishijima Mitsumasa Okada	Proceedings of 8th International Automobile Recycling Congress, (2008)

## E. Social and Environmental Systems Engineering

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>E1</b> A New Concept for The Early Age Shrinkage Effect on Diagonal Cracking Strength of Reinforced HSC Beams	Ryoichi Sato Hajime Kawakane	Journal of Advanced Concrete Technology, <b>6</b> , 1 (2008) pp. 45-67
<b>E2</b> Effective steel-ratio and size effect in shear sensitive HSC beams subjected to high-shrinkage	Hajime Kawakane Takuto Kawamoto Takuma Oga Ryoichi Sato	Proceedings of the Second International Symposium on Ultra High Performance Concrete, Kas-sel, Germany, (2008) pp. 311-318
<b>E3</b> Self-induced stress in reinforced ultra-high strength concrete	Ippei Maruyama Masahiro Suzuki Ryoichi Sato	Proceedings of 8th International Conference on Creep, Shrinkage and Durability of Concrete and Concrete Structures, Ise-Shima, <b>1</b> (2008) pp. 365-372
<b>E4</b> Reduction of restrained stress in ultra-high strength concrete using porous ceramic for internal curing	Masahiro Suzuki Hirokazu Nakase Ippei Maruyama Ryoichi Sato	Proceedings of 8th International Conference on Creep, Shrinkage and Durability of Concrete and Concrete Structures, Ise-Shima, <b>2</b> (2008) pp. 839-846
<b>E5</b> Autogenous deformation and resultant induced stress in low-shrinkage high-strength concrete	Makoto Tanimura Ippei Maruyama Ryoichi Sato	Proceedings of 8th International Conference on Creep, Shrinkage and Durability of Concrete and Concrete Structures, Ise-Shima, <b>2</b> (2008) pp. 855-862
<b>E6</b> Shrinkage dependent diagonal cracking strength and size effect of reinforced HSC beams	Hajime Kawakane Ryoichi Sato	Proceedings of 8th International Conference on Creep, Shrinkage and Durability of Concrete and Concrete Structures, Ise-Shima, <b>2</b> (2008) pp. 1343-1350
<b>E7</b> Durability mechanics of concrete and concrete structures - Re-definition and a new approach - (JCI committee report)	Ryoichi Sato Takumi Shimomura Ippei Maruyama Kenichiro Nakarai	Proceedings of 8th International Conference on Creep, Shrinkage and Durability of Concrete and Concrete Structures, Ise-Shima, <b>2</b> (2008) pp. 1073-1098

**Paper Title**

**Author Name**

**Journal, Vol., No. (Year) Page**

**E8** Combined Effect of Shrinkage Reducing and Expansi

**Published Papers**

---

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>E23</b> The Detection of Structural Deterioration and Low-frequency Noise Sources Using Hyper-vision Technology	Ryouichi Satake Hideharu Nakamura Katashi Fujii	International Conference on Civil and Environmental Engineering(ICCEE-2008), (2008)
<b>E24</b> A Practical Method for Identifying Parameters on the Seismic Design of Embankments	Yoshiya Hata Koji Ichii Takashi Tsuchida Seiji Kano Norihiko Yamashita	Georisk, 2, 1 (2008) pp. 28-40
<b>E25</b> Characteristics of uplifting velocity of a buried pipe in liquefied ground	Koji Ichii Nobuyasu Seto Hiroshi Kidera	Geotechnical Earthquake Engineering and Soil Dynamics IV (GEESD IV), (2008)
<b>E26</b> Applicability of newly-developed Instrument for microtremor measurements to estimate the loosened zone in shallow ground	Taiji Hanakawa Seiji Kano Toshikazu Sawamatsu Koji Ichii	Proceedings of the 2nd International conference on Geotechnical Engineering for disaster mitigation and rehabilitation (GEDMAR08), (2008)
<b>E27</b> Evaluation of simultaneous failure probability for two quay walls in different sites considering the distance	Koji Ichii Yutaka Yamamoto Ryoichi Shibasaki	Proceedings of the 14th World Conference on Earthquake Engineering, (2008)
<b>E28</b> A study on the seismic response of embankments based on the estimation of the natural frequency in the vertical direction	Yoshiya Hata Koji Ichii Seiji Kano Takashi Tsuchida	Proceedings of 4th international disaster and risk conference, (2008)
<b>E29</b> Effect of heterogeneous soil strength in the seismic residual displacement of embankments	Yoshiya Hata Koji Ichii Takashi Tsuchida Seiji Kano Norihiko Yamashita	Geotechnical Earthquake Engineering and Soil Dynamics IV (GEESD IV), (2008)
<b>E30</b> A study on the Seismic Response of Embankments based on the Estimation of the natural Frequency in the Vertical Direction	Yoshiya Hata Koji Ichii Seiji Kano Takashi Tsuchida	Proceedings of the 4th International Disaster and Risk Conference, (2008)
<b>E31</b> The Rigidity Recovery of Post Liquefied Soils	Seiji Kano Hiroshi Kidera Yasushi Sasaki Takashi Ikeoka Koji Ichii	Proceedings of the 4th Geotechnical earthquake Engineering and Soil Dynamics Conference, (2008)
<b>E32</b> Centrifuge Testing of Prefabricated Vertical Drains for Liquefaction Remediation	Antonio Marinuccil Ellen Rathje Seiji Kano Ronnie Kamai Carolyn Conlee Rachelle Howell Ross Boulanger Patricia Gallagher	Proceedings of the 4th Geotechnical earthquake Engineering and Soil Dynamics Conference, (2008)
<b>E33</b> Boundary Effects on the Three Dimensional Seismic Responses of Embankments	Seiji Kano Yoshiteru Yokoi Yasushi Sasaki Yoshiya Hata	Proceedings of International Conference of Civil and Environmental Engineering (ICCEE-2008), (2008)
<b>E34</b> A New Method to Predict Landslide Disaster Using an Odor Sensor	Hiroki Yuri Seiji Kano Takashi Tsuchida Thiha	Proceedings of International Conference of Civil and Environmental Engineering (ICCEE-2008), (2008)
<b>E35</b> Improved Assessment of Liquefaction Potential against Earthquake Motions with Long Durations	Kazuaki Uemura Koji Ichii	Proceedings of International Conference of Civil and Environmental Engineering (ICCEE-2008), (2008)
<b>E36</b> Modeling household discrete choice behavior incorporating heterogeneous group decision-making mechanisms	Zhang, J. Kuвано, M Lee, B. Fujiwara, A	Transportation Research Part B, (2008)
<b>E37</b> Characteristic of temporal demand distribution decomposed by independent component analysis	Inoue, S. Tsukai, M. Kuвано, M. Okuruma, M.	Proceedings of International Conference on Civil and Environmental Engineering, (2008)



Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>E38</b> Development of discrete choice model with multi-dimensional social interaction	Kuwano, M. Fujiwara, A. Zhang, J.	proceedings of International Conference on Civil and Environmental Engineering, (2008)
<b>E39</b> Evaluation of enzymatic cell treatments for application of CARD-FISH to methanogens	Kengo Kubota Hiroyuki Imachi Shuji Kawakami Kohei Nakamura Hideki Harada Akiyoshi Ohashi	Journal of Microbiological Methods, <b>72</b> , 1 (2008) pp. 54-59
<b>E40</b> Syntrophorhabdus aromaticivorans gen.nov.,sp.nov.,the First Cultured Anaerobe Capable of Degrading Phenol to Acetate in Obligate Syntrophic Associations with a Hydrogenotrophic Methanogen	Yan-Ling Que Satoshi Hanada Akiyoshi Ohashi Hideki Harada Yoichi Kamagata Yuji Sekiguchi	APPLIED AND ENVIRONMENTAL MICROBIOLOGY, <b>74</b> , 7 (2008) pp. 2051-2058
<b>E41</b> Changes of microbial characteristics of retained sludge during low-temperature operation of an EGSB reactor for low-strength wastewater treatment	K.Syutubo W.Yoochatchaval H.Yoshida K.Nishiyama M.Okawara H.Sumino N.Araki H.Harada A.Ohashi	Water Science & Technology-WST, <b>57</b> , 2 (2008) pp. 277-281
<b>E42</b> Influence of effluent-recirculation condition on the process performance of expanded granular sludge bed reactor for treating low strength wastewater	W.Yoochatchaval K.Nishiyama M.Okawara A.Ohashi H.Harada K.Shutsubo	Water Science & Technology-WST, <b>57</b> , 6 (2008) pp. 869-873
<b>E43</b> Production of biologically safe digested manure for land application by a full - scale biogas plant with heat - inactivation	S.Uemura A.Ohashi H.Harada T.Hoak T.Tomozawa T.Ohara R.Ojima T.Ishida	Waste Management & Research, <b>26</b> , 3 (2008) pp. 256-260
<b>E44</b> Characteristics of Granular Sludge in an EGSB Reactor for Treating low Strength Wastewater	W.Yoochatchaval A.Ohashi H.Harada T.Yamaguchi K.Syutubo	Int.J.Environ.Res, <b>2</b> , 4 (2008) pp. 319-328
<b>E45</b> Intermittent Effluent Recirculation for the Efficient Treatment of Low Strength Wastewater by an EGSB Reactor	W.Yoochatchaval A.Ohashi H.Harada T.Yamaguchi K.Syutubo	International Journal of Environmental Res, <b>2</b> , 3 (2008) pp. 231-238
<b>E46</b> Thermodesulfovibrio aggregans sp. nov. and thermophilic, sulfate-reducing bacteria isolated from thermophilic methanogenic sludge, and emended description of the genus Thermodesulfovibrio	Yuji Sekiguchi Mizuho Muramatsu Hiroyuki Imachi Takashi Narihiro Akiyoshi Ohashi Hideki Harada Satoshi Hanada Yoichi Kamagata	International Journal of Systematic and Evolutionary Microbiology, <b>58</b> (2008) pp. 2541-2548
<b>E47</b> Changes in process performance and microbial characteristics of retained sludge during low-temperature operation of an EGSB reactor	W.Yoochatchaval I.Tsushima A.Ohashi H.Harada T.Yamaguchi N.Araki K.Syutubo	Journal of Environmental Science and Health Part A, <b>43</b> (2008) pp. 1650-1656

**Published Papers**

---

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>E48</b> Simulation of the effects of the alteration of the river basic land use on river water temperature using the multi-layer mesh-typed runoff model, Simulation of the effects of the alteration of the river basic land use on river water temperature using the multi-layer mesh-typed runoff model	N. Ozaki T. Fukushima T. Kojiri	Ecological modelling , <b>25</b> (2008) pp. 159-169
<b>E49</b> Partial Nitrification of Ammonium to Nitrite for ANAMMOX	Akiyoshi Ohashi H.P.Chuang Kenichi Abe	The 4th International Symposium of Environmental Biotechnology, (2008) pp. 26-27
<b>E50</b> Community structure and function of candidate division TM7 in a wastewater treatment plant	T.Kindaichi H.Kajihar T.Yamamoto N.Ozaki A.Ohashi S.Okabe	12th International symposium on MICRIBIAL ECOLOGY ISME12, (2008)
<b>E51</b> Distinctive microbes are involved in butyrate and palmitate degradation under methanogenic conditions	M.Hatamoto H.Imachi A.Ohashi H.Harada	12th International symposium on MICRIBIAL ECOLOGY ISME12, (2008)
<b>E52</b> Development of a novel host range evaluation method for bacteriophages	S.Ohno H.Okada A.Ohashi Y.Tanji K.Watanabe H.Imachi	12th International symposium on MICRIBIAL ECOLOGY ISME12, (2008)
<b>E53</b> Detection of chromosome-encoded genes by TWO-Pass TSR-Fish with single oligonucleotide probe	S.Kawakami K.Kubota H.Imachi T.Yamaguchi H.Harada A.Ohashi	12th International symposium on MICRIBIAL ECOLOGY ISME12, (2008)
<b>E54</b> Estimation of the River Discharge Loadings of PAHs in a Suburban River in Hiroshima Prefecture	N.Ozaki K.Iwasaki K.Kojima T.Kindaichi	"The 12th International conference on Integrated Diffuse Pollution Management IWA DIPCON 2008, (2008)
<b>E55</b> Diverse Microorganisms Involved in Butyrate Degradation in Methanogenic Sludges Revealed by RNA-based Stable Isotope Probind	Masashi Hatamoto Hiroyuki Imachi Akiyoshi Ohashi Hideki Harada	Proceedings of International Conference on Civil and Environmental Engineering ICCEE-2008, (2008) pp. 27
<b>E56</b> Establishment of a One-Stage Nitrogen-Removal Process in a Down-Flow Hanging Sponge (DHS) Reactor	Hui-Ping Chuang Akiyoshi Ohashi	Proceedings of International Conference on Civil and Environmental Engineering ICCEE-2008, (2008) pp. 28
<b>E57</b> Effects of Ammonia and Salinity on Nitrification in plant (ShOzaki)F05 0 Td (artial)Tjahm56 0 Td (ment)Tj	N. Ozaki T. Fukushima T. Kojiri	2i632 28 Td7(Symposiu)Hoqu49 0 Td (r)Tj 3.11337 0 Td (of)Tj 12.9485 0 Td (Intern)Tj 23.7301 0 Td (ational)Tj

<b>Paper Title</b>	<b>Author Name</b>	<b>Journal, Vol., No. (Year) Page</b>
<b>E61</b> Photocatalytic Decomposition of PAHs with TiO <sub>2</sub> and Their Toxicity Assessment	Akihiro Nakazato Tomonori Kindaichi Noriatsu Ozaki Akiyoshi Ohashi	Proceedings of International Conference on Civil and Environmental Engineering ICCEE-2008, (2008) pp. 49
<b>E62</b> Direct production of electric energy by microbial fuel cells	Takayuki Yokota Tomonori Kindaichi Noriatsu Ozaki Akiyoshi Ohashi	Proceedings of International Conference on Civil and Environmental Engineering ICCEE-2008, (2008) pp. 50
<b>E63</b> 3-d flood flow structures in a doubly meandering compound channel under dominant relative depth	G. M. Tarekul Islam Yoshihisa Kawahara Nobuyuki Tamai	Journal of Applied Mechanics, JSCE, <b>11</b> (2008) pp. 735-743
<b>E64</b> Integrated modeling for inundation flows in urban areas	Yoshihisa Kawahara Tatsuhiko Uchida	Proc. of World Environmental & Water Resource Congress 2008, ASCE/EWRI, (2008)
<b>E65</b> Unsteady flow pattern in a doubly meandering compound channel	G. M. Tarekul Islam Yoshihisa Kawahara Nobuyuki Tamai	International Conference on Fluvial Hydraulics (River Flow 2008), (2008) pp. 499-507
<b>E66</b> Prediction of water surface elevation in a doubly meandering compound channel using CIP-based scheme	G. M. Tarekul Islam Yoshihisa Kawahara Tatsuhiko Uchida Yu Morishita	International Conference on Fluvial Hydraulics (River Flow 2008), (2008) pp. 2043-2050
<b>E67</b> Optimal interpolation of submerged river bed for laser scanning survey using a two-dimensional numerical model	Tatsuhiko Uchida Yoshihisa Kawahara	Advances in Hydro-Science and Engineering (ICHE2008), (2008)
<b>E68</b> 2D numerical simulation of flow in a compound meandering channel for accurate estimation of discharge hydrograph	Yoshihisa Kawahara Yu Morishita Tatsuhiko Uchida Yasuhiro Iwakoke	Advances in Hydro-Science and Engineering (ICHE2008), (2008)
<b>E69</b> 2-D simulation of velocity distribution in a doubly meandering compound channel using CIP-based scheme	G. M. Tarekul Islam Yoshihisa Kawahara Tatsuhiko Uchida Yu Morishita	Advances in Hydro-Science and Engineering (ICHE2008), (2008)
<b>E70</b> Two-dimensional numerical simulation of flow at low water depth in minochi river	Yasuhiro Iwakoke Yoshihisa Kawahara Yu Morishita Tatsuhiko Uchida	International Conference on Civil and Environmental Engineering-2008, (2008)
<b>E71</b> Measurement of physical environment of river with terrestrial laser scanning	Sayaka Oshida Tatsuhiko Uchida Yoshihisa Kawahara	International Conference on Civil and Environmental Engineering-2008, (2008)
<b>E72</b> A new sensor for continuous measurement of scour depth in rivers	Susumu Yoshida Yoshihisa Kawahara	International Conference on Civil and Environmental Engineering-2008, (2008)
<b>E73</b> Flood management options in floodplain country	G. M. Tarekul Islam Yoshihisa Kawahara	International Water Resources and Hydropower Forum, (2008)
<b>E74</b> Stochastic modeling and prediction of the Ganges flow	G. M. Tarekul Islam Yoshihisa Kawahara	APD-IAHR Congress, (2008) pp. 6-11
<b>E75</b> Flood flow analysis during rising and falling stages in a doubly meandering compound channel	G. M. Tarekul Islam Yoshihisa Kawahara Nobuyuki Tamai	APD-IAHR Congress, (2008) pp. 387-392
<b>E76</b> Experimental and numerical study on inundation flows in urban areas	Yoshihisa Kawahara Yasushi Ito Tatsuhiko Uchida	APD-IAHR Congress, (2008) pp. 246-251
<b>E77</b> The Design Secret of Kyokusui-no-En's Meandering Channel	Ryota Tsubaki Yasuki Nakayama Ichiro Fujita	Journal of Visualization, <b>11</b> , 3 (2008) pp. 265-272
<b>E78</b> Water Quality Dynamics in a Tidal River with Groins	Hisashi Furuhata Ryota Tsubaki Tetsuro Tsujimoto	Advances in Hydro-Science and Engineering (ICHE2008), (2008)
<b>E79</b> Flow Structure through Groins in the Kiso River during a Flood Event	Ryota Tsubaki Tetsuro Tsujimoto Hisashi Furuhata	Advances in Hydro-Science and Engineering (ICHE2008), (2008)

## Published Papers

---

<b>Paper Title</b>	<b>Author Name</b>	<b>Journal, Vol., No. (Year) Page</b>
<b>E80</b> Flood Surface Flow Measurement by STIV in Adverse Conditions for Imaging	Ichiro Fujita Shiho Tsutsumi Takazumi Ando Ryota Tsubaki Takeshi Okabe	Advances in Hydro-Science and Engineering (ICHE2008), (2008)
<b>E81</b> Analysis of Water Surface Oscillation at Open-Channel Side Cavity by Image Analysis and Large Eddy Simulation	Ichiro Fujita Ken Kadotani Takayuki Matsubara Ryota Tsubaki	Advances in Hydro-Science and Engineering (ICHE2008), (2008)
<b>E82</b> Turbulent effects on the settling velocity of suspended sediment	Kiyosi Kawanisi Ryohey Shiozaki	Journal of Hydraulic Engineering, ASCE, <b>134</b> , 2 (2008) pp. 261-266
<b>E83</b> Transport characteristics of suspended sediment on mud flat in a tidal channel	Kiyoshi Kawanishi Tomoya Yokoyama	Proceedings of 16th AHR-APD Congress, <b>3</b> (2008) pp. 810-814
<b>E84</b> Measurement of cross-sectional average v		

<b>Paper Title</b>	<b>Author Name</b>	<b>Journal, Vol., No. (Year) Page</b>
<b>E97</b> Maneuvering Simulation of MOERI Container Ship	Hironori Yasukawa Masaaki Sano	Workshop on Verification and Validation of Ship Manoeuvring Simulation Methods (SIMMAN 2008), Copenhagen, Denmark, (2008)
<b>E98</b> Maneuvering Motions of KVLCC1 and KVLCC2 using MMG Model	Masaaki Sano Hironori Yasukawa	Workshop on Verification and Validation of Ship Manoeuvring Methods (SIMMAN 2008), Copenhagen, Denmark, (2008)
<b>E99</b> Turning Simulation of a Pusher-Barge System in Shallow Water	Koh, Kho King Hironori Yasukawa Noritaka Hirata	Proc. 4th Asia-Pacific Workshop on Marine Hydrodynamics (APHydro 2008), Taipei, Taiwan, (2008) pp. 93-100
<b>E100</b> Prediction Method of Wave-Induced Loads for a Laterally Drifting Ship in Waves	Faizul Amri Bin Adnan Hironori Yasukawa	Proc. 4th Asia-Pacific Workshop on Marine Hydrodynamics (APHydro 2008), Taipei, Taiwan, (2008) pp. 267-278
<b>E101</b> An Eulerian Scheme with Lagrangian particles for Solving Impact Pressure Caused by Wave Breaking	Mutsuda, H. Y. Shinkura Y.DoI	International Society of Offshore and Polar Engineers(ISOPE), ISBN <b>978-1-880653-70-8</b> (2008) pp. 162-169
<b>E102</b> UNSTRUCTURED LARGE EDDY SIMULATION OF FLOWS AROUND AUTOMOBILES USING HIGH PERFORMANCE COMPUTING TECHNIQUE: A SHIFT FROM STEADY TO UNSTEADY AERODYNAMICS	Makoto Tsubokura Takuji Nakashima Nobuyuki Oshima Kozo Kitoh Huilai Zhang Kotaro Hori Toshio Kobayashi	Proceedings of 7th International Symposium on Engineering Turbulence Modelling and Measurements -ETMM7, <b>2/3</b> (2008) pp. 314-320
<b>E103</b> LARGE-EDDY SIMULATION OF UNSTEADY VEHICLE AERODYNAMICS AND FLOW STRUCTURES	Takuji Nakashima Makoto Tsubokura Takahide Nouzawa Takaki Nakamura Huilai Zhang Nobuyuki Oshima	Proceedings of Sixth International Colloquium on Bluff Body Aerodynamics and Applications, (2008) pp. 447-450
<b>E104</b> Numerical Analysis of Wind Drag Reduction with Corner Cut and Step Shaped Accommodation Tower of Ships	Takuji Nakashima Yasuaki Doi Hidemi Mutsuda Shingo SATAKE Tomotaka OGAWA	Proceedings of PAAMES and AMEC2008, (2008) pp. 75-82
<b>E105</b> NUMERICAL PREDICTION OF UNSTEADY AERODYNAMIC FORCES ON ROAD VEHICLES USING HIGH PERFORMANCE LES	Tsubokura, Makoto Takuji Nakashima Takahide Nouzawa Takaki Nakamura Kozo Kitoh Huilai Zhang Kotaro Hori Nobuyuki Oshima Toshio Kobayashi	Proceedings of FISITA World Automotive Congress 2008, (2008)
<b>E106</b> 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	SAE 2007 Transactions Journal of Passenger Cars - Mechanical Systems, (2008)
<b>E107</b> HPC-LES for the Prediction of Unsteady Aerodynamic Forces on a Vehicle in a Gusty Cross-flow Condition	Makoto Tsubokura Takuji Nakashima Takeshi Ikenaga Keiji Onishi Kozo Kitoh Nobuyuki Oshima Toshio Kobayashi	Proceedings of Motorsports Engineering Conference & Exposition, (2008)
<b>E108</b> Highly accurate Free Surface Capturing Technique for Wave Breaking	Mutsuda, H Doi, Y.	Proc. of 31th International Conference on Coastal Engineering, (2008)

## Published Papers

---

<b>Paper Title</b>	<b>Author Name</b>	<b>Journal, Vol., No. (Year) Page</b>
<b>E109</b> Oceanographic phenomena around Strait of Malacca estimated from satellite data	Sakuno Y.	Proceedings of 3rd PAAMES and AMEC2008, (2008)
<b>E110</b> Incorporation of Spatial Smoothing Term in Satellite-based Regression Model of Shallow Water Bathymetry	Kanno A. Koibuchi Y. Sakuno Y. Isobe M.	Proceedings of Pan Ocean Remote Sensing Conferen

<b>Paper Title</b>	<b>Author Name</b>	<b>Journal, Vol., No. (Year) Page</b>
<b>E123</b> Evaluation and minimization of life cycle environmental risk of concrete structures	Takafumi Noguchi Satoshi Fujimoto	International Conference on Sustainable Construction Materials and Technologies 2008, (2008)
<b>E124</b> Development of Simulation System for Estimating Regional Environmental Impacts in Concrete Industries using Multi-Agent and GIS	Hironori Nagai Takafumi Noguchi Manabu Kanematsu Ayako Iwata Ryoma Kitagaki Satoshi Fujimoto	The 3rd ACF International Conference-ACF/VCA 2008, (2008)
<b>E125</b> Minimization of CO2 Emission from Concrete Recycling in Major Metropolitan Areas and Regional Areas in Japan by using ecoma	Ryoma Kitagaki Takafumi Noguchi Hironori Nagai Manabu Kanematsu Ayako Iwata Satoshi Fujimoto	The 3rd ACF International Conference-ACF/VCA 2008, (2008)
<b>E126</b> A simple function to estimate fabrication time for steel building rigid frames	Kiichiro Sawada Hitoshi Shimizu Akira Matsuo Takaichi Sasaki	DFE2008 Design, Fabrication and Economy of Welded Structures, (2008) pp. 135-141
<b>E127</b> SEISMIC DESIGN OF STEEL FRAMES CONSIDERING STRUCTURAL WEIGHT AND FABRICATION COST	Kiichiro Sawada Hitoshi Shimizu Akira Matsuo Takaichi Sasaki	The 14th World Conference on Earthquake Engineering, (2008)
<b>E128</b> UPGRADING THE DEFORMATION CAPACITY OF ANCHOR-BOLTS IN THE EXPOSED-TYPE COLUMN BASES OF EXISTING OLD STEEL STRUCTURES	Akira Matsuo Kiichiro Sawada TakaoTakamatsu Hiroyuki Tamai	The 14th World Conference on Earthquake Engineering, (2008)
<b>E129</b> REHABILITATION OF STEEL STRUCTURE BY MEANS OF WEDGE DEVICE	TakaoTakamatsu Hiroyuki Tamai Teruaki Yamanishi Akira Matsuo	The 14th World Conference on Earthquake Engineering, (2008)
<b>E130</b> Restoring Force Characteristics of Anchor-Bolt-Yield-Type Exposed Column Base Subjected to Axial Force and Bending Moment	Teruaki Yamanishi TakaoTakamatsu Hiroyuki Tamai Akira Matsuo	The 14th World Conference on Earthquake Engineering, (2008)
<b>E131</b> Study on the Rationalization of Foundation Input Motion in Japan's Performance-Based Building Code	Y. Izumi K. Miura	Proc. 14th World Conference on Earthquake Engineering, (2008)
<b>E132</b> Strong motion uncertainty determined from observed records by dense network in Japan	Nobuyuki Morikawa Tatsuo KANNO Akira Narita Hiroyuki Fujiwara Toshihiko Okumura Yoshimitsu Fukushima Aybars Guerpinar	Journal of Seismology, <b>12-4</b> (2008) pp. 529-546
<b>E133</b> Earthquake Response Analysis for Japanese Traditional Wooden Buildings with Mud Walls Using Semi-Rigid Frame Model	Shinya Matsumoto Yoshiyuki Suzuki	Proc. 14th World Conference on Earthquake Engineering, (2008)
<b>E134</b> Seismic Performance of Reinforced Concrete Columns Retrofitted with CFRP Strips	Hideo Araki Akira Yasojima Ryoichi Sato Masanori Nakata	Proceeding of Fourth International Conference on FRP Composites in Civil Engineering, (2008)
<b>E135</b> Mechanical Properties of Concrete Containing Construction Sludge	Kato Takashi Yasojima Akira Araki Hideo Kiyama Kunihiro	Proceedings of 14th World Conference on Earthquake Engineering, (2008)
<b>E136</b> Seismic Performance of Reinforced Concrete Beams with Low Strength Concrete	Taniguchi Hiroaki Yasojima Akira Hideo Araki	Proceedings of 14th World Conference on Earthquake Engineering, (2008)
<b>E137</b> Local bond splitting behavior of RC members with lateral reinforcement	Akira Yasojima Toshiyuki Kanakubo	Proceedings of 14th World Conference on Earthquake Engineering, (2008)

## Published Papers

---

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>E138</b> A study on the leveling for hot water supply demands and the reduction for equipment capacity in complex buildings	Saburo Murakawa Yasuo Koshikawa Hiroshi Takata Athushi Tanaka	Proceedings of the 34th International Symposium on CIB W062 Water Supply and Drainage for Buildings, (2008) pp. 118-129
<b>E139</b> Calculation method for loads of hot water demand with the hot water storage tank system in houses	Hiroshi Takata Saburo Murakawa Naoki Yamamoto Hiroki Kitayama Yasuhiro Hamada Minako Nabeshima	Proceedings of the 34th International Symposium on CIB W062 Water Supply and Drainage for Buildings, (2008) pp. 23-35
<b>E140</b> Analysis on cold and hot water usage of students in each dwelling 50	Akiko Takaaze Saburo Murakawa Hiroshi Takata	Proceedings of the 34th International Symposium on CIB W062 Water Supply and Drainage for Buildings, (2008) pp. 50-57
<b>E141</b> Study on the running condition of residential gas engine cogeneration system	Yasunari Shimizu Saburo Murakawa Hiroshi Takata Hiroshi Kitayama Yasuhiro Hamada Minako Nabeshima	Proceedings of the 34th International Symposium on CIB W062 Water Supply and Drainage for Buildings, (2008) pp. 106-117
<b>E142</b> Experimental study on the bluish water phenomena in copper piping systems	Toshihiro Yamate Saburo Murakawa	Proceedings of the 34th International Symposium on CIB W062 Water Supply and Drainage for Buildings, (2008) pp. 300-314
<b>E143</b> The Global Use of Icons in the Environmental Diversity	Shoichiro Sendai	Kansei Engineering International, 7, 2 (2008) pp. 145-154
<b>E144</b> Emotion to the Invisible: Historic Landscape Formation of the A-bomb Dome	Shoichiro Sendai	6th Design & Emotion Conference Proceedings, (2008)
<b>E145</b> A study on Robust Optimization of Principal Part	Shoichiro Sendai	



Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>F2</b> Single bacterial cell detection using a mutant luciferase	Kenichi Noda Tadahiro Matsuno Hiroya Fujii Tomonari Kogure Masaaki Urata Yasuo Asami Akio Kuroda	Biotechnology Letters 30, (2008) pp. 1051-1054
<b>F3</b> Continuous-flow ATP amplification system for increasing the sensitivity of quantitative bioluminescence assay	Tetsuya Satoh Yasuharu Shinoda Maxym Alexandrov Akio Kuroda Yuji Murakami	Analytical Biochemistry, <b>379</b> (2008) pp. 116-120
<b>F4</b> On-Chip ATP Amplification	Yuji Murakami Yasuharu Shinoda Tetsuya Satoh Kenichi Noda Akio Kuroda	Micro Total Analysis Systems 2008, (2008) pp. 1275-1277
<b>F5</b> Stress from Discontinuous SiN Liner for Fully Silicided Gate Process	T. Yamashita Y. Nishida T. Okagaki Y. Miyagawa J. Yugami H. Oda Y. Inoue K. shibahara	Jpn.J.App.Phys., <b>47</b> , 4B (2008) pp. 2569-2574
<b>F6</b> Interface properties and effective work function of Sb-predoped fully silicided NiSi gate	T. Hosoi K. Sano A. Ohta k. Makihara H. Kaku S. Miyazaki K. Shibafara	Surface and Interface Analysis, <b>40</b> , Iss.6-7 (2008) pp. 1126-1130
<b>F7</b> Threshold Voltage Modulation Using N <sub>2</sub> <sup>+</sup> Implantation Into Substrate for Ni Fully Silicided Gate/High-k NMOS	T. Yamashita Y. Nishida K. Eikyu H. Oda Y. Inoue K. Shibahara	IEEE Electron Device Lett, <b>29</b> , 10 (2008) pp. 1163-1166
<b>F8</b> Ge Shallow Junction Formation with Preamorphizing Technique	K. Shibahara T. Fukunaga T. Hosoi	Proceedings of 2008 Korea-Japan Joint Workshop on Advanced Semi- conductor Processes and Equip- ments, (2008) pp. 163-166
<b>F9</b> Bias temperature instability in metal-oxide-semiconductor field-effect transistors with atomic-layer-deposited Si-nitride/SiO <sub>2</sub> stack gate dielectrics	Shiyang Zhu Anri Nakajima	J.Appl.Phys., <b>103</b> , 8 (2008) pp. 84512-84518
<b>F10</b> Dependence of charge storage and programming characteristics on dot number of floating dot memory	Anri Nakajima Tomo Fujiaki Yuusuke Fukuda	Appl.Phys Lett., <b>92</b> , 22 (2008) pp. 223503-223505
<b>F11</b> Si Single-Electron Memory Having in-Plane Dot With Double Gates	Tomo Fujiaki Kensaku Ohkura Anri Nakajima	Jpn.J.Appl.Phys., <b>47</b> , 6 (2008) pp. 4985-4987
<b>F12</b> Conduction path fluctuation in Si two-dimensional tunnel junction array	Koki Matsushita Anri Nakajima	the 2008 International Micropro- cesses and Nanotechnology Confer- ence (MNC 2008)(Fukuoka, Octo- ber 27-30), (2008) pp. 122-123

## Published Papers

---

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>F13</b> Development of Biosensor using Si Nanowire Transistor	Takashi Kudo Toshihiro Kasama Shin Yokoyama Takamaro Kikkawa Hideo Sunami Tomohiro Ishikawa Takeshi Ikeda Yumehiro Hata Masato Suzuki Shiho Tokonami Kiyoshi Okuyama Tetsuo Tabei Kensaku Ohkura Yasuhisa Kayaba Yuichiro Tanushi Yoshiteru Amemiya Yoshinori Cho Tomomi Mon	

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>F24</b> Electro-optic polymer waveguide modulators with refractive index tapers leading to low coupling loss and a high confinement factor	C.T. DeRose D. Mathine Y. Enami R.A. Norwood J. Luo A.K-Y. Jen N. Peyghambarian	CLEO (Conference on Lasers and Electro-Optics), (2008)
<b>F25</b> Novel transversely tapered hybrid electro-optic polymer/sol-gel waveguide modulators	Y. Enami D. Mathine C.T. DeRose R.A. Norwood J. Luo A.K-Y. Jen N. Peyghambarian	The 21st Annual Meeting IEEE of Lasers & Electro-Optics Society, (2008)
<b>F26</b> Novel hybrid electro-optic polymer/sol-gel waveguide structure for Mach-Zehnder modulators and directional coupler switches	Y. Enami D. Mathine C.T. DeRose R.A. Norwood J. Luo A.K-Y. Jen N. Peyghambarian	SPIE(The International Society for Optical Engineering), (2008)
<b>F27</b> Photoelastic Effect in Silicon Ring Resonator	Y. Amemiya Y. Tanushi T. Tokunaga S. Yokoyama	Jpn. J. App. Phys, <b>47</b> , 4 (2008) pp. 2910-2914
<b>F28</b> Magneto-Optic Effect in Amorphous $\text{Bi}_3\text{Fe}_5\text{O}_{12}$ Waveguide Sputtered at Room Temperature	H. Taura Y. Shishido Y. Tanushi S. Yokoyama	Jpn. J. App. Phys, <b>47</b> , 4 (2008) pp. 2915-2920
<b>F29</b> Electric Field Drive Silicon Optical Modulator by Carrier Concentration	Y. Amemiya Y. Tanushi T. Tokunaga S. Yokoyama	Proc. International Conference on Photonics in Switching, (2008) pp. D.01_4-D.01_4
<b>F30</b> Si Ring Optical Resonators for Integrated On-Chip Biosensing	S. Yamatogi Y. Amemiya S. Yokoyama	Abst. Int. Conf. on Solid State Devices and Materials (SSDM2008), (2008) pp. 934-935
<b>F31</b> Characterization of Ge photodetectors fabricated on vicinal Si substrate	K. Kuriyama K. Terao S. Yokoyama	Abst. Int. Conf. on Solid State Devices and Materials (SSDM2008), (2008) pp. 284-285
<b>F32</b> Measurement of Surface Tension and Viscosity of Ethanol / Water Solutions Mixed with Micro Process Server by Surface Laser-Light Scattering	Takashi Kozu Tetsuro Miyamoto Ryo Miyake Yuji Nagasaka	Proceedings of 18th European Conference on Thermo-physical Properties, (2008)
<b>F33</b> Disposable Bacterial Counting Cassette Integrated with Pretreatment and Micro Flow-Cell Based on Flow Cytometry Technique	Keiji Takenaka Yasuhiko Sasasaki Hisao Inami Hisao Nakamoto Yusuke Watanabe Masao Kurihara Kazuo Takei Shigenori Togashi Ryo Miyake	Proceedings of International Symposium on Microchemistry and Microsystems 2008, (2008)
<b>F34</b> Integration architecture of content addressable memory and massive-parallel memory-embedded SIMD matrix for versatile multimedia processor	T. Kumaki M. Ishizaki T. Koide H. J. Mattausch Y. Kuroda T. Gyohten H. Noda K. Dosaka K. Arimoto K. Saito	IEICE Transactions on Electronics, <b>E91-C</b> , 9 (2008) pp. 1409-1418

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>F35</b> Low-Power Image-Segmentation VLSI Design Based on a Pixel-Block Scanning Architecture	K. Okazaki K. Awane N. Nagaoka T. Sugahara T. Koide H. J. Mattausch	Extended Abstracts of the 2002 International Conference on Solid State Devices and Materials (SSDM2008), (2008) pp. 474-475
<b>F36</b> Low Power and Area Efficient Image Segmentation VLSI Architecture Using 2-Dimensional Pixel-Block Scanning	Keita Okazaki Naomi Nagaoka Tatsuya Sugahara Tetsushi Koide H. J. Mattausch	Proceedings of International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS), (2008)
<b>F37</b> Swallowable Biosensor: Development of Digestive Organs Sensors for Continuous Diagnosis	Tomohide Noda Yuji Murakami Tomohiro Ishikawa Nobuo Sasaki Zhang Yi Tsuyoshi Takeuchi Takunari Kunimasa Kazuaki Shibata Tetsushi Koide Koh Johguchi Akio Kuroda	214th The Electrochemical Society Meeting, (2008)
<b>F38</b> Laterally Diffused Metal Oxide Semiconductor Model for Device and Circuit Optimization	M. Yokomichi N. Sadachika M. Miyake T. Kajiwara H. J. Mattausch M. Miura-Mattausch	Jpn. J. Appl. Phys., <b>47</b> , 4 (2008) pp. 2560-2563
<b>F39</b> Frequency Dependence of Measured Metal Oxide Semiconductor Field-Effect Transistor Distortion Characteristic	T. Minami Y. Takeda M. Miyake M. Miura-Mattausch H. J. Mattausch T. Ohguro T. Iizuka M. Taguchi S. Miyamoto	Jpn. J. Appl. Phys., <b>47</b> , 4 (2008) pp. 2610-2615
<b>F40</b> Construction of a Compact Modeling Platform and its Application to the Development of Multi-Gate MOSFET Models for Circuit Simulation	M. Miura-Mattausch H.J. Mattausch M. Chan J. He H. Koike T. Nakagawa Y. J. Park T. Tutsumi Z. Yu	Proceedings of the 5th International Workshop on Compact Modeling (IWCM2008), (2008) pp. 1-4
<b>F41</b> High-Voltage MOSFET Model with Consistently Determined Potential Distribution in MOS Channel and Drift Region	A. Oohashi M. Miyake M. Yokomichi H. Masuoka T. Kajiwara T. Kojima N. Sadachika U. Feldmann H.J. Mattausch M. Miura-Mattausch	Proceedings of the 5th International Workshop on Compact Modeling (IWCM2008), (2008) pp. 49-52
<b>F42</b> Construction of a Compact Modeling Platform and Its Application to the Development of Multi-Gate MOSFET Models for Circuit Simulation	M. Miura-Mattausch M. Chan J. He H. Koike H.J. Mattausch T. Nakagawa Y.J. Park T. Tsutsumi Z. Yu	Proceedings of the 2008 NIST Nanotechnology Conference and Trade Show (NIST-Nanotech 2008), (2008) pp. 764-769

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>F43</b> Modeling of Floating-Body Devices Based on Complete Potential Description	N. Sadachika T. Murakami M. Ando K. Ishimura K. Ohyama M. Miyake H.J. Mattausch M. Miura-Mattausch	Proceedings of the 2008 NIST Nanotechnology Conference and Trade Show (NIST-Nanotech 2008), (2008) pp. 778-781
<b>F44</b> HiSIM-HV: a complete surface-potential-based MOSFET model for High Voltage Applications	Y. Oritsuki M. Yokomiti T. Sakuda N. Sadachika M. Miyake T. Kajiwara U. Feldmann H.J. Mattausch M. Miura-Mattausch	Proceedings of the 2008 NIST Nanotechnology Conference and Trade Show (NIST-Nanotech 2008), (2008) pp. 893-896
<b>F45</b> A Consistently Potential Distribution Oriented Compact IGBT Model	M. Miyake A. Ohashi M. Yokomichi H. Masuoka T. Kajiwara N. Sadachika U. Feldmann H.J. Mattausch M. Miura-Mattausch T. Kojima T. Shoji Y. Nishibe	Proceedings 39th Annual IEEE Power Electronics Specialists Conference (IEEE PESC 2008), (2008) pp. 998-1003
<b>F46</b> The HiSIM Compact Model Family for Integrated Devices Containing a Surface-Potential MOSFET Core	H.J. Mattausch M. Miura-Mattausch N. Sadachika M. Miyake D. Navarro	Proceedings of the 15th International Conference on Mixed Design of Integrated Circuits and Systems (MIXDES2008), (2008) pp. 39-50
<b>F47</b> Development of Multi-Gate MOSFET Models for Circuit Simulation with a Compact Modeling Platform	H.J. Mattausch M. Chan J. He H. Koike M. Miura-Mattausch T. Nakagawa Y.J. Park T. Tsutsumi Z. Yu	Proceedings of the 15th International Conference on Mixed Design of Integrated Circuits and Systems (MIXDES2008), (2008) pp. 59-64
<b>F48</b> Non-Quasi-Static Carrier Dynamics of MOSFETs under Low-Voltage Operation	M. Miyake D. Hori N. Sadachika U. Feldmann M. Miura-Mattausch H.J. Mattausch T. Iizuka K. Matsuzawa Y. Sahara T. Hoshida T. Tsukada	Proceedings of the IEEE International Conference on Simulation of Semiconductor Processes and Devices (SISPAD2008), (2008) pp. 381-384
<b>F49</b> Modeling of High-Voltage MOSFETs for Device/Circuit Optimization	M. Miura-Mattausch M. Yokomichi N. Sadachika Y. Oritsuki T. Sakuda M. Miyake T. Kajiwara H. Kikuchihara U. Feldmann H.J. Mattausch	Extended Abstracts of the 2008 International Conference on Solid State Devices and Materials (SSDM2008), (2008) pp. 730-731

Paper Title	Author Name	Journal, Vol., No. (Year) Page
<b>F50</b> Consistent Dynamic Depletion Model of SOI-MOSFETs for Circuit/Device Optimization	S. Kusu K. Ishimura K. Ohyama T. Miyoshi D. Hori N. Sadachika T. Murakami M. Ando H.J. Mattausch M. Miura-Mattausch S. Baba J. Ida	Proceedings of the 34th 2008 IEEE International SOI Conference (SOI2008), (2008) pp. 59-60
<b>F51</b> HiSIM-HV: A Compact Model for Simulation of High-Voltage-MOSFET Circuits	H.J. Mattausch T. Kajiwara M. Yokomichi T. Sakuda Y. Oritsuki M. Miyake N. Sadachika H. Kikuchihara U. Feldmann M. Miura-Mattausch	Proceedings of the International Conference on Solid-State and Integrated-Circuit Technology (ICSICT2008), (2008)
<b>F52</b> Gaussian Monocycle Pulse Transmitter Using 0.18 um CMOS Technology With On-Chip Integrated Antennas for Inter-Chip UWB Communication	T. Kikkawa P. K. Saha N. Sasaki K. Kimoto	IEEE Journal of Solid-State Circuits, <b>43</b> , 5 (2008) pp. 1303-1312
<b>F53</b> Theoretical investigation of maximum field strength in porous silica dielectric	Yasuhisa Kayaba Takamaro Kikkawa	Japanese Journal of Applied Physics, <b>47</b> , 7 (2008)
<b>F54</b> Early Breast Cancer Detection by Ultrawide Band Imaging with Dispersion Consideration	X. Xiao T. Kikkawa	Japanese Journal of Applied Physics, <b>47</b> , 3209 (2008)

---

## Published Books

---

<b>Book Title (Editor Name)</b>	<b>Author Name</b>	<b>Publisher</b>	<b>Year</b>
Combustion Phenomena: Selected Mechanisms of Flame Formation, Propagation, and Extinction	Satoru Ishizuka	CRC Press	2008
Advances in Industrial Engineering and Operations Research	Takeshi Matsui Kosuke Kato Masatoshi Sakawa Takeshi Uno Kenji Morihara	Springer	2008
Fuzzy Multi-Criteria Decision Making - Theory and Applications with Recent Developments -	Masatoshi Sakawa Kosuke Kato	Springer	2008
Tabu Search Algorithm Based on Strategic Oscillation for Nonlinear Minimum Spanning Tree Problems	Hideki Katagiri Masatoshi Sakawa Kosuke Kato Ichiro Nishizaki Takeshi Uno Tomohiro Hayashida	Springer	2008
Fundamental Algorithms of the Reconfigurable Mesh	Koji Nakano	Chapman & Hall/CRC	2008
Advanced Reliability Modeling III - Global Aspect of Reliability and Maintainability	S.-H. Shu T. Dohi	McGraw Hill	2008
fib Bulletin 47 Environmental design of concrete structures - General principles	Kenji Kawai	fib (The International Federation for Structural Concrete)	2008
Atlas historique de Kyoto, Analyse spatiale des système de mémoire d'une ville, de son architecture et de son paysage urbain	Shoichiro Sendai Nicolas Fiévé	Les Editions UNESCO	2008
The Physics and Modeling of MOSFETs: Surface-Potential Model HiSIM	M. Miura-Mattausch H.J. Mattausch T. Ezaki	World Scientific Publishing Corporation	2008

---

## Registered Patents

---

<b>Patent Name (Registered Number)</b>	<b>Inventor Name</b>	<b>Registered Date</b>
Hybrid electro-optic polymer/sol-gel modulators with reduced half-wave voltage, lower insertion loss and improved contrast (UA07-117)	Y. Enami C.T. DeRose R.A. Norwood N. Peyghambarian	2008.12.1