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Published Papers

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A1 Analysis on Thermal Efficiency of Non-Compressor Type Pulse Detonation Turbine Engines	Shinichi Maeda Jiro Kasahara Akiko Matsuo Takuma Endo	Transactions of the Japan Society for Aeronautical and Space Sciences, 53 , 181 (2010) pp. 192-206
A2 Stress analysis and strength evaluation of scarf adhesive joints subjected to static tensile loadings	He Dan Toshiyuki Sawa Takeshi Iwamoto Yuya Hirayama	International Journal of Adhesion & Adhesives, 30 (2010) pp. 387-392
A3 A three-dimensional finite element stress analysis and strength prediction of stepped-lap adhesive joints of dissimilar adherends subjected to bending moments	Toshiyuki Sawa Kohei Ichikawa Yuichiro Shin Takeshi Iwamoto	International Journal of Adhesion & Adhesives, 30 (2010) pp. 298-305
A4 Experimental and computational investigations on strain rate sensitivity and deformation behavior of bulk materials made of epoxy resin structural adhesive	Takeshi IWAMOTO Toshimasa Nagai Toshiyuki Sawa	International Journal of Solids and Structures, 47 , 2 (2010) pp. 175-185
A5 A finite element simulation on creep behavior in welded Joint of chromemolybdenum steel including interaction between void evolution and dislocation dynamics	Takeshi IWAMOTO Eiji Murakami Toshiyuki Sawa	Technische Mechanik, 30 , 1-3 (2010) pp. 157-168
A6 Non-linear dynamic responses of elastic two-story structures with partially filled liquid tanks	Takashi Ikeda	Int. J. Non-Linear Mech., 45 , 3 (2010) pp. 263-278
A7 Bifurcation phenomena caused by multiple nonlinear vibration absorbers	Takashi Ikeda	Trans. ASME, J. Computational and Nonlinear Dynamics, 5 , 2 (2010) pp. 021012-1-021012-15
A8 Vibration suppression of elastic structures utilizing internal resonance of liquid sloshing in a rectangular tank	Takashi Ikeda	Proceedings of the ASME 2010 Pressure Vessels & Piping Division / K-PVP Conference (PVP2010), (2010)
A9 Design of perforated open end for the reduction of resonance sound in acoustic tube	Satoshi Tejima Yasuhisa Sekiguchi	Proceedings of the 2nd International Conference on Design Engineering and Science, (2010) pp. 273-277
A10 Predictions and experimental studies of the tail pipe noise of an automotive muffler using a one dimensional CFD model	Takashi Yasuda Chaoqun Wu Noritoshi Nakagawa Kazuteru Nagamura	Applied Acoustics, 71 (2010) pp. 701-707
A11 Development of a Closed-Fitting-Type Walking Assistance Device on Leg with a Self-Contained Control System	Tadaaki Ikehara Eiichirou Tanaka Kazuteru Nagamura Takanobu Tamiya Takuro Ushida Kenichi Hashimoto Sho Kojima Kiyotaka Ikejo Louis Yuge	Journal of Robotics and Mechatronics, 22 , 3 (2010) pp. 380-390

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A12 Wear Test and Calculation of the Involute and Cycloid Spur Gear	Natsuhiko Seyama Kazuteru Nagamura Kiyotaka Ikejo	Proceedings of International Conference on Gears Europe invites the World, October 4th to 6th, 2010, Technical University of Munich (TUM) Garhing (near Munich), Germany, VDI-Berichte 2108.2 (2010) pp. 1409-1503
A13 Vibration and Noise Analysis of Elliptical Gears	Xing Liu Kazuteru Nagamura Kiyotaka Ikejo	Proceedings of The 2nd International Conference on Design Engineering and Science (ICDES2010) Morito Memorial Hall, Tokyo University of Science, Tokyo, JAPAN, November 17-19, (2010) pp. 262-267
A14 Sound Transmission Loss of Polycarbonate Window Pane with Damped Sandwich Structure for Automobile	Shen Min Kazuteru Nagamura Noritoshi Nakagawa Masaharu Okamura	Proceedings of The 2nd International Conference on Design Engineering and Science (ICDES2010) Morito Memorial Hall, Tokyo University of Science, Tokyo, JAPAN, November 17-19, (2010) pp. 268-272
A15 Job Shop Scheduling Using Continuous EDAs	Masahiro Fujimoto Toru Eguchi	Proceedings of the 2010 International Symposium on Flexible Automation, (2010)
A16 A Release Time Determination Method To Meet Due-dates and Minimize Lead-times in Job Shops	Shinji Hirano Toru Eguchi	Proceedings of the 2010 International Symposium on Flexible Automation, (2010)
A17 Improvement of the sound absorption performance of polycarbonate automobile window pane using micro-perforated membrane absorber	Shen Min Kazuteru Nagamura Noritoshi Nakagawa Masaharu Okamura	Proceedings of the 2010 International Conference on Mechatronics and Automation (ICMA), Xian, CHINA, August 4-7, 2010, (2010) pp. 1466-1471
A18 Multidimensional kinetic approach for rarefied and transitional flows by the CIP method	Takashi Yabe Youichi Ogata	International Journal for Numerical Methods in Fluids, A special issue of ASME 2009, 65 (2010) pp. 191-206
A19 Conservative Semi-Lagrangian CIP to the Shallow Water Equations	Takashi Yabe Youichi Ogata	Computational Mechanics, A special issue of FEF09, 46 (2010) pp. 125-134
A20 DNS of Spatially Evolving Transitional/Turbulent Boundary Layer at $M=2.0$	Yousuke Tokura Hiroshi Maekawa Daisuke Watanabe Youichi Ogata	Proceedings of the 48th AIAA Aerospace Science Meeting, (2010)
A21 Coordinating the Adaptive Behavior for Swarm Robotic Systems by Using Topology and Weight Evolving Artificial Neural Networks	Kazuhiro Ohkura Toshiyuki Yasuda Yoshiyuki Matsumura	Proceedings of WCCI 2010 IEEE World Congress on Computational Intelligence, 2010 IEEE Congress on Evolutionary Computation, (2010) pp. 1788-1795
A22 A Swarm Robotics Approach to Cooperative Package-Pushing Problems with Evolving Recurrent Neural Networks	Kazuhiro Ohkura Toshiyuki Yasuda Yukihiko Kotani Yoshiyuki Matsumura	Proceedings of SICE Annual Conference 2010, (2010) pp. 706-711
A23 Collective Behavior Analysis Based on Clustering for Swarm Robotic Systems	Kazuhiro Ohkura Toshiyuki Yasuda Chikara Morishita Yoshiyuki Matsumura	Proceedings of International Conference on Innovative Technologies IN-TECH 2010, (2010) pp. 440-444
A24 Extended PSO with Partial Randomization for Large Scale Multimodal Problems	Toshiyuki Yasuda Kazuhiro Ohkura Yoshiyuki Matsumura	World Automation Congress WAC 2010 CD-ROM Proceedings, (2010)

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A25 Parallelization of Genetic Algorithms over GPU using CUDA	Masaki Kadota Yoshiyuki Matsumura Toshiyuki Yasuda Kazuhiro Ohkura	Proceedings of the 2010 International Symposium on Intelligent Systems, (2010)
A26 Extended Particle Swarm Optimization with Partial Randomization for a Multi-Robot System	Toshiyuki Yasuda Kazuhiro Ohkura Yoshiyuki Matsumura	Proceedings of International Conference on Advanced Mechatronics 2010, (2010) pp. 37-42
A27 Implementation Method of Genetic Algorithms to CUDA Environment using Data Parallelization	Masashi Oiso Yoshiyuki Matsumura Toshiyuki Yasuda Kazuhiro Ohkura	Proceedings of the 14th Asia Pacific Symposium on Intelligent and Evolutionary Systems, (2010) pp. 51-60
A28 Analysis of Behavioural Strategy on ER using Self-Organizing Maps	Masanori Goka Yoshiyuki Matsumura Kazuhiro Ohkura	Proceedings of the 14th Asia Pacific Symposium on Intelligent and Evolutionary Systems, (2010) pp. 191-198
A29 The Analysis of Autonomous Specialization Process in Reinforcement Learning Arm-Type Robots Cooperating with a Human Partner	Toshiyuki Yasuda Kazuhiro Ohkura	Proceedings of the 14th Asia Pacific Symposium on Intelligent and Evolutionary Systems, (2010) pp. 199-205
A30 Hybrid Evolutionary Algorithm Based on (μ, λ) Evolution Strategies and Particle Swarm Optimization Applies to a Car Racing Problem	Yoshiyuki Matsumura Eisuke Nakahara Masanori Goka Toshiyuki Yasuda Kazuhiro Ohkura	Proceedings of the 14th Asia Pacific Symposium on Intelligent and Evolutionary Systems, (2010) pp. 250-257
A31 Preservation and Application of Acquired Knowledge Using Instance-Based Reinforcement Learning	Junki Sakanoue Toshiyuki Yasuda Kazuhiro Ohkura	Proceedings of Joint 5th International Conference on Soft Computing and Intelligent Systems and 10th International Symposium on advanced Intelligent Systems, (2010) pp. 576-581
A32 Improving the Robustness of Instance-Based Reinforcement Learning Robots by Metalearning	Toshiyuki Yasuda Kousuke Araki Kazuhiro Ohkura	Proceedings of Joint 5th International Conference on Soft Computing and Intelligent Systems and 10th International Symposium on advanced Intelligent Systems, (2010) pp. 704-709
A33 Analysis of Behavior Strategy on Evolutionary Robotics Using Self-Organizing Maps	Masanori Goka Yoshiyuki Matsumura Kazuhiro Ohkura	Proceedings of Joint 5th International Conference on Soft Computing and Intelligent Systems and 10th International Symposium on advanced Intelligent Systems, (2010) pp. 722-727
A34 Hybrid Optimization based on Classical Evolution Strategies and Particle Swarm Optimization applies to a Car Racing Problem	Yoshiyuki Matsumura Eisuke Nakahara Masanori Goka Toshiyuki Yasuda Kazuhiro Ohkura	Proceedings of Joint 5th International Conference on Soft Computing and Intelligent Systems and 10th International Symposium on advanced Intelligent Systems, (2010) pp. 728-733
A35 Stability Analysis and Stabilization of Nonlinear Systems via Locally Defined Density Functions	Izumi Masubuchi	SICE Journal of Control, Measurement, and System Integration, 3 , 6 (2010) pp. 424-428
A36 Exactness verification of upper-bound relaxations derived via parameter-dependent multipliers for rational uncertainty blocks	Daisuke Maruyama Izumi Masubuchi	Proceedings of the 2010 IEEE Multi-conference on Systems and Control, (2010) pp. 743-748
A37 On robust synthesis of gain-scheduled controllers under stochastic measurement noise on the scheduling parameter	Izumi Masubuchi Yoshihisa Fujimoto	Proceedings of the SICE Annual Conference 2010, (2010) pp. 3043-3046

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A39 Stabilization of time-varying stochastic port-Hamiltonian systems based on stochastic passivity	Satoshi Satoh Kenji Fujimoto	Proceedings of IFAC Symposium on Nonlinear Control Systems, (2010) pp. 611-616
A40 A symmetric structure of variational and adjoint systems of stochastic Hamiltonian systems	Satoshi Satoh Kenji Fujimoto	Proceedings of 49th IEEE Conference on Decision and Control, (2010) pp. 1423-1428
A41 Low-order H_∞ controller design on the frequency domain by partial optimization	Masami Saeki Masashi Ogawa Nobutaka Wada	International Journal of Robust and Nonlinear Control, 20 (2010) pp. 323-333
A42 A search method for a fixed-order controller of H_2/H_∞ control problems	Masami Saeki Keisuke Kawanishi Nobutaka Wada	SICE Annual Conference 2010, (2010) pp. 3024-3029
A43 Dynamic anti-windup compensator design considering behavior of controller state	Unggul Wasiwitono Shunsuke Takamatsu Masami Saeki Kiyoshi Ochi Nobutaka Wada	Journal of System Design and Dynamics, 4 , 4 (2010) pp. 601-615
A44 Forming of Microstructure on Hard Brittle Materials in Ductile Mode Cutting	Kunitaka Kuriyama Masahiko Fukuta Katsuhiko Sekiya Keiji Yamada Yasuo Yamane	Key Engineering Materials, 447-448 (2010) pp. 91-95

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B2 Experimental investigation of material flow during friction stir spot welding	Shohei Horie Kenji Shinozaki Motomichi Yamamoto Tom North	Science Technology of Welding and Joining, 15 , 8 (2010) pp. 666-670
B3 Melting phenomenon of hot-wire GTA and hot-wire laser welding process	K. Shinozaki M. Yamamoto K. Kadoi T. Nagashima T. Kanazawa	IIW-Doc-XII-1994-10 (IIW2010), (2010)
B4 Mechanical and thermal properties of vapor-grown carbon fiber reinforced aluminum matrix composites by plasma sintering	Z. F. Xu Y.B.Choi K. Matsugi D.C. Li G.Sasaki	Materials Transactions, 51 , 3 (2010) pp. 510-515
B5 Alloy design of Ti alloys using ubiquitous alloying elements and characteristics of their levitation-melted alloys	K. Matsugi T. Endo Y. B. Choi G.Sasaki	Materials Transactions, 51 , 4 (2010) pp. 740-748
B6 Preparation of unidirectional carbon fiber perform for Cf/Al composites	M. H. Lee Y. B. Choi K. Matsugi G. Sasaki	Proceedings of the 12th International Conference on Aluminium Alloys, (2010) pp. 867-872
B7 Fabrication and Characterization of Unidirectional Cf/Al Composites	M. H. Lee Y. B. Choi K. Sugio H. Fukushima K. Matsugi G. Sasaki	Proc. of 8th Joint Canada-Japan Workshop on Composites, (2010) pp. 173-180
B8 Effect of Microstructure on Thermal Properties for VGCF/ Aluminum Composites fabricated by Spark Sintering Process	Gen Sasaki Zhefeng Xu Kenji Sugio Yong-Bum Choi Kazuhiko Matsugi	Proceedings of the 12th International Conference on Aluminium Alloys, (2010) pp. 873-877
B9 Low Infiltration Process of Molten Aluminum Alloy to C/C Preform with Nickel Coating	G. Sasaki M. Morioka K. Sugio H. Fukushima Y. B. Choi K. Matsugi	Proc. of 8th Joint Canada-Japan Workshop on Composites, (2010)
B10 Properties of Small Rotary Engine Housing Fabricated by Aluminum Alloy Matrix Composites	Nobuyuki Fuyama Akira Terayama Toshio Fujii Hajime Tani Shinji Danjo Gen Sasaki	Materials Science Forum, 638-642 (2010) pp. 933-938
B11 Effect of Interfacial Reaction on High Temperature Properties of Fe-Cr-Si Fiber Reinforced AC8A Aluminum Composites	N. Fuyama A. Terayama T. Fujii T. Shiraishi Y. Miyake G. Sasaki	Materials Science Forum, 654-656 (2010) pp. 2696-2699

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B12 Fabrication of Carbon Nano-Fiber / Aluminum Composites by Low-Pressure Infiltration Method	G. Sasaki Y. Hara Z. F. Xu K. Sugio H. Fukushima Y. B. Choi K. Matsugi	Materials Science Forum, 654-656 (2010) pp. 2692-2695
B13 Searches for High Frequency Variations in the ^8B Solar Neutrino Flux at the Sudbury Neutrino Observatory	B. Aharmim Ryuta Hazama et al.	Astrophysical Journal, 710 (2010) pp. 540-548
B14 Development of a new rectangular NaI(Tl) scintillator and spectroscopy of low-energy charged particles	H. Nakamura H. Kitamura Ryuta Hazama	Review of Scientific Instruments, 81 (2010) pp. 013104-1-013104-4
B15 Low energy threshold analysis of the Phase I and Phase II data sets of the Sudbury Neutrino Observatory	B. Aharmim Ryuta Hazama et al.	Physical Review C, 81 (2010) pp. 055504-1-055504-49
B16 Radiation measurements with heat-proof polyethylene terephthalate bottles	H. Nakamura H. Kitamura Ryuta Hazama	Proceedings of the Royal Society A (Math, Phys. & Eng. Sci.), 466 (2010) pp. 2847-2856
B17 Solubility, Light Output and Energy Resolution Studies of Molybdenum-Loaded Liquid Scintillators	V.M. Gehman P.J. Doe R.G.H. Robertson D.I. Will H. Ejiri Ryuta Hazama	Nuclear Instruments and Methods in Physics Research A, 622 (2010) pp. 602-607
B18 Light output response of KamLAND liquid scintillator for protons and ^{12}C nuclei	S. Yoshida T. Ebihara T. Yano A. Kozlov T. Kishimoto I. Ogawa Ryuta Hazama, et al.	Nuclear Instruments and Methods in Physics Research A, 622 (2010) pp. 574-582
B19 Dark matter search by means of segmented scintillator (PICO-LON)	K. Fushimi Ryuta Hazama et al.	J. Phys. Conf. Ser., 203 (2010) pp. 012046-1-012046-3
B20 The MAJORANA Project	C.E. Aalseth Ryuta Hazama et al.	J. Phys. Conf. Ser., 203 (2010) pp. 012057-1-012057-3
B21 MOON for Double-Beta Decays and Neutrino Nuclear Responses	K. Fushimi Ryuta Hazama et al.	J. Phys. Conf. Ser., 203 (2010) pp. 012064-1-012064-3
B22 Study of ^{48}Ca double beta decay with CANDLES	I. Ogawa Ryuta Hazama et al.	J. Phys. Conf. Ser., 203 (2010) pp. 012073-1-012073-3
B23 Metal coating effect on thermal diffusivity of single-walled carbon nanotube	Shuhei Inoue Yukihiko Matsumura	CHEMICAL PHYSICS LETTERS, 495 , 1-3 (2010) pp. 80-83
B24 Prospective growth region for chemical vapor deposition synthesis of carbon nanotube on C-H-O ternary diagram	Takashi Tomie Shuhei Inoue Masamichi Kohno Yukihiko Matsumura	DIAMOND AND RELATED MATERIALS, 19 , 11 (2010) pp. 1401-1404
B25 Synthesis of Single-walled Carbon Nanotube	Kyohei Ito Shuhei Inoue Yukihiko Matsumura	Proceedings of International Conference on Science and Technology of Synthetic Metals 2010, (2010)
B26 MD Study for Functionalized Single-Walled Carbon Nanotube	Shuhei Inoue Yukihiko Matsumura	Proceedings of International Conference on Flow Dynamics 2010, (2010)
B27 Molecular Dynamic Simulation for Metal � Carbon Nanotube Composite Materials	Shuhei Inoue Yukihiko Matsumura	Proceedings of International Conference on Science and Technology of Synthetic Metals 2010, (2010)

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B28 A Fundamental Investigation on the Effect of the Ejection Velocity Ratio on the Characteristics of the Rapidly Mixed Tubular Flame Combustion	Daisuke Shimokuri Daisuke Watanabe Yoshiro Eto Yanlei Wang Baolu Shi Satoru Ishizuka	Proceedings of the Eighth Asia-Pacific Conference on Combustion, (2010)
B29 Characteristics of the Ignition and Combustion of Bio-Diesel Fuel Spray Injected by a Common Rail Injection System for a Direct-Injection Diesel Engine	Olawole Abiola Kuti Xiangang Wang Wu Zhang Keiya Nishida Zuohua Huang	Journal of Automobile Engineering, Part D, Institution of Mechanical Engineers, 224 (2010) pp. 1581-1596
B30 Effect of Injection Pressure on Flame and Soon Characteristics of the Biodiesel Spray	Xiangang Wang Olawole Abiola Kuti Wu Zhang Keiya Nishida Zuohua Huang	Combustion Science and Technology, 182 , 10 (2010) pp. 1369-1390
B31 An Experimental Investigation on Spray, Ignition and Combustion Characteristics of Biodiesels	Xiangang Wang Zuohua Huang Olawole Abiola Kuti Wu Zhang Keiya Nishida	Proceedings of the Thirty Third Symposium (International) on Combustion, 33 , 2011 (2010) pp. 2071-2077
B32 Gas Entrainment Characteristics of Diesel Spray Injected by a Group-Hole Nozzle	Seoksu Moon Yuhei Matsumoto Keiya Nishida Jian Gao	Fuel, 89 (2010) pp. 3287-3299
B33 Improving Diesel Mixture Preparation by Optimization of Orifice Arrangements in a Group-Hole Nozzle	Seoksu Moon Yuhei Matsumoto Keiya Nishida Jia Gao	International Journal of Engine Research, 11 , 2 (2010) pp. 109-126
B34 Experimental and Analytical Study on Biodiesel and Diesel Spray Characteristics under Ultra-High Injection Pressure	Xiangang Wang Zuohua Huang Olawole Abiola Kuti Wu Zhang Keiya Nishida	International Journal of Heat and Fluid Flow, 31 , 4 (2010) pp. 659-666
B35 Effect of Injection Pressure on Ignition, Flame Development and Soot Formation Processes of Biodiesel Fuel Spray	Olawole Abiola Kuti Wu Zhang Keiya Nishida Xiangang Wang Zuohua Huang	SAE International Journal of Fuels and Lubricants, 3 , 2 (2010) pp. 1057-1070
B36 Mixture Formation and Combustion of Diesel Sprays from Micro-Hole Nozzle under Ultra-High Injection Pressure	Wu Zhang Keiya Nishida	CD-ROM Proceedings of THIESEL 2010 Conference on Thermo-and Fluid Dynamic Processes in Diesel Engines, (2010) pp. 1-14
B37 Effect of Injection Pressure on Ignition, Flame Development and Soot Formation Processes of Biodiesel Fuel Spray	Olawole Abiola Kuti Keiya Nishida Jingyu Zhu Wu Zhang Xiangang Wang Zuohua Huang	CD-ROM Proceedings of 2010 Small Engine Technology Conference, SAE Paper No. 2010-32-0053/ JSAE Paper No. 20109053 (2010) pp. 1-14
B38 Effects of Ultra-High Injection Pressure and Microhole Nozzle on Flame Structure and Soot Formation of Impinging Diesel Spray	Xiangang Wang Zuohua Huang Wu Zhang Olawole Abiola Kuti Keiya Nishida	Proceedings of the 10th International Conference on Combustion and Energy Utilization, (2010) pp. 1-10
B39 Spray and Flame Characteristics of Biodiesel Fuel Injected by Common Rail Injection System for D.I. Diesel Engine	Olawole Abiola Kuti Keiya Nishida Jingyu Zhu Wu Zhang Xiangang Wang Zuohua Huang	CD-ROM Proceedings of 8th ASPACC-10, Asia Pacific Conference on Combustion, (2010) pp. 1-8
B40 Laser Absorption-Scattering Technique Applied to Asymmetric Evaporating Fuel Sprays for Simultaneous Measurement of Vapor/Liquid Mass Distributions	Jian Gao Keiya Nishida	Applied Physics B, 101 (2010) pp. 433-443

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B41 Simultion and Analysis of Group-Hole Nozzle Sprays Using a Gas Jet Superposition Model	Jian Gao Sung Wook Park Yue Wang Rolf D. Reitz Seoksu Moon Keiya Nishida	Fuel, 89 (2010) pp. 3758-3772
B42 Research on Combustion System of DISC Gasoline Engines II: Mixture Formation Process in the Spark-Chamber	Jiang-Ping Tian Wu-Qiang Long Keiya Nishida Wu Zhang	Transactions of CSICE, 28 , 4 (2010) pp. 309-315
B43 Spectroscopic Investigations on OH Radicals Generated in He/Water and Air/Water Mixtures by an Atmospheric Pressure Surface Discharge Micro Plasma Device	Ken Takiyama Hideo Nojima Tsuyoshi Noi Shinichi Namba Tsutomu Yamasaki	Proceedings of the 7th International Conference on Reactive Plasmas, (2010)
B44 Spatially Resolved Spectroscopic Study of Arcjet Helium Plasma Expanding through a Rectangular Converging and Diverging Nozzle	S. Namba N. Yashio K. Kozue K. Nakamura K. Takiyama K. Sato	Annual report of national institute for fusion science, 2010 (2010) pp. 319
B45 Practical Qbeta analysis method based on the Fermi-Kurie plot for spectra measured with total absorption BGO detector	H. Hayashi Y. Kojima M. Shibata K. Kawade	Nucl. Instruments and Methods A, 613 (2010) pp. 79-89
B46 Measurements of neutron distribution in neutrons-gamma rays mixed field using imaging plate for neutron capture therapy	K. Tanaka S. Endo M. Hoshi	Appl. Radiat. Isot. 68, 207-210, 68 (2010) pp. 207-210
B47 Dose Rate Estimation around a ⁶⁰ Co Gamma-ray Irradiation Source by means of ¹¹⁵ In Photoactivation	A. Murataka S. Endo Y. Kojima K. Shizuma	J. Radiat. Res., 51 (2010) pp. 197-203
B48 Measurement of Neutron and Photon Microdosimetric Spectra produced from 290 MeV/A Spread Out Bragg Peak Carbon beam	S. Endo M. Takada H. Tanaka Y. Onizuka K. Tanaka N. Miyahara M. Ishikawa M. Hoshi S. Kimura K. Shizuma	Radiat Environ Biophys, 49 (2010) pp. 469-475
B49 Genome-Wide Expression Changes in <i>Saccharomyces cerevisiae</i> in Response to High-LET Ionizing Radiation	S. Mizukami-Murata H. Iwahashi S. Kimura K. Nojima Yo. Sakurai T. Saitou N. Fujii Y. Murata S. Suga K. Kitagawa K. Tanaka S. Endo M. Hoshi	Appl Biochem Biotechnol, 162 (2010) pp. 855-870
B50 Dosimetric verification of the anisotropic analytical algorithm in lung equivalent heterogeneities with and without bone equivalent heterogeneities	K. Ono S. Endo K. Tanaka M. Hoshi Y. Hirokawa	Med. Phys, 37 , 8 (2010) pp. 4456-4463

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B51 Feasibility using ^{236}U to reconstruct close-in fallout deposition from the Hiroshima Atomic Bomb	A. Sakaguchi K. Kawai P. Steier T. Imanaka M. Hoshi S. Endo K. Zhumadilov M. Yamamoto	Sci. Tot. Environm, 408 (2010) pp. 5392-5398
B52 Measurements of ^{60}Co in massive steel samples exposed to the Hiroshima atomic bomb explosion	J. Gasparro M. Hult G. Marissens M. Hoshi K. Tanaka S. Endo M. Laubenstein	JRC scientific and Technical report La-NA-24146-EN-C, (2010) pp. 1-13
B53 Air bending and springback of stainless steel clad aluminum sheet	Kerim Yilamu Ryutaro Hino Hiroshi Hamasaki Fusahito Yoshida	Journal of Materials Processing Technology, 210 , 2 (2010) pp. 272-278
B54 Bauschinger Effect on Springback of Clad Sheet Metals in Draw Bending	Kerim Yilamu Ryutaro Hino Hiroshi Hamasaki Fusahito Yoshida	Materials Transactions, 51 , 7 (2010) pp. 1364-1366
B55 Springback simulation of high strength steel sheets calculated by Yoshida-Uemori model	Takeshi Uemori Satoshi Sumikawa Shohei Tamura Hiroyuki Akagi Tetsuo Naka Fusahito Yoshida	Steel Research International, 81 , 9 (2010) pp. 825-828
B56 Prediction of fracture for high strength steel sheets under stretch bending	Tetsuo Naka Takanori Kurose Takeshi Uemori Ryutaro Hino Fusahito Yoshida	Steel Research International, 81 , 9 (2010) pp. 841-844
B57 Reduction of springback by bottoming and ironing on high strength steel sheet	Takayuki Ogawa Atsushi Hirahara Fusahito Yoshida	Steel Research International, 81 , 9 (2010) pp. 845-848
B58 Incremental forming with local heating for aluminum-magnesium alloy sheet	Ryutaro Hino Naoaki Nagaishi Yuki Yamamoto Tetsuo Naka Fusahito Yoshida	Steel Research International, 81 , 9 (2010) pp. 946-949
B59 Elasto-Plasticity Behavior of High Strength Steel Sheet in Biaxial Stress Path Change	Takeshi Uemori Tohru Kuramitsu Yuji Mito Ryutaro Hino Tetsuo Naka Fusahito Yoshida	Materials Transactions, 51 , 10 (2010) pp. 1814-1818
B60 CONSTITUTIVE MODELING FOR HIGH-TEMPERATURE VISCOPLASTIC BEHAVIOUR OF BETA TITANIUM ALLOY SHEET	Hiroshi Hamasaki Xiaoteng Wang Ryota Yamauchi Michio Yamamura Takashi Maeda Yoshihisa Shirai Fusahito Yoshida	Proceedings of The 16th International Symposium on Plasticity and Its Current Applications (CD-ROM), 2010 (2010)
B61 ELASTO-PLASTICITY BEHAVIOR OF HIGH STRENGTH STEEL SHEET IN BIAXIAL STRESS PATH CHANGE	Takeshi Uemori Yuji Mito Satoshi Sumikawa Fusahito Yoshida	Proceedings of The 16th International Symposium on Plasticity and Its Current Applications (CD-ROM), (2010)
B62 Reliable Process Design of Tension Leveling Process by Means of Taguchi's Method and Stochastic Optimization	Hiroshi Hamasaki Kenko Gejima Fusahito Yoshida Vassili V. Toropov	Proceedings of CJK-OSM6: 6th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (CD-ROM), (2010)

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B63 Material models for accurate simulation of sheet metal forming and springback	Fusahito Yoshida	Proceedings of the 10th International Conference on Numerical Methods in Industrial Forming Processes (NUMIFORM 2010), (2010) pp. 71-78
B64 Elasto-plasticity behavior of type 5000 and 6000 aluminum alloy sheets and its constitutive modeling	Shohei Tamura Satoshi Sumikawa Hiroshi Hamasaki Takeshi Uemori Fusahito Yoshida	Proceedings of the 10th International Conference on Numerical Methods in Industrial Forming Processes (NUMIFORM 2010), (2010) pp. 630-637
B65 Reduction of springback of sheet metals by bottoming	Takayuki Ogawa Atsushi Hirahara Fusahito Yoshida	Proceedings of the 10th International Conference on Numerical Methods in Industrial Forming Processes (NUMIFORM 2010), (2010) pp. 919-926
B66 Experimental Observation of Elasto-Plasticity Behavior of Type 5000 and 6000 Aluminium Alloy Sheets	Shohei Tamura Satoshi Sumikawa Takeshi Uemori Hiroshi Hamasaki Fusahito Yoshida	Proceedings of the 12th International Conference on Aluminium Alloys (ICAA12), (2010) pp. 2090-2095
B67 Springback Analysis of Aluminium Alloy Sheet with Special Reference to Effect of Planar Anisotropy	Takeshi Uemori Satoshi Sumikawa Shohei Tamura Hiroyuki Akagi Fusahito Yoshida	Proceedings of the 12th International Conference on Aluminium Alloys (ICAA12), (2010) pp. 2102-2107
B68 Prediction of Anisotropy and Yield Surface of Aluminium Sheet by Polycrystal Plasticity Theory	Koshiro Kitayama Takumi Kobayashi Takeshi Uemori Fusahito Yoshida	Proceedings of the 12th International Conference on Aluminium Alloys (ICAA12), (2010) pp. 2180-2185
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B71 Measurement of Delamination Energy of Sputtered SiC Film Coated on Tool Steel Substrate	Masahiko KATO Koumei FUJIOKA Hiroyuki AKEBONO Atsushi SUGETA	Journal of JSEM, 10 (2010) pp. 141-145
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G2 Diffusion and Adsorption Properties of Lead in Cement Hydrates	Kenji Kawai Hiromitsu Kikuchi Toshimitsu Sato	Proceedings of the Sixth International Conference on Concrete Under Severe Conditions - Environment and Loading, Merida, 1 (2010) pp. 506-512
G3 Simplified Resistance Evaluation of Cementitious Materials to Sulfuric Acid	Kenji Kawai Hiroyuki Morita Yasuhiko Matsui	Proceedings of the Sixth International Conference on Concrete Under Severe Conditions - Environment and Loading, Merida, 1 (2010) pp. 583-587
G4 Preparation of Inventory Data for Environmental Performance Evaluation of Concrete and Concrete Structures	Kenji Kawai Akihiro Fujiki Yusuke Aoki Yuta Iwatani	Proceedings of Sessions in Honor of Professor Koji Sakai, the Second International Conference on Sustainable Construction Materials and Technologies, Ancona, (2010) pp. 277-287
G5 Study of Parameters Contributing to the Environmental Impact in Precast Concrete Production	Soejoso Mia Kenji Kawai Akihiro Fujiki Yusuke Aoki Yuta Iwatani	Proceedings of Sessions in Honor of Professor Koji Sakai, the Second International Conference on Sustainable Construction Materials and Technologies, Ancona, 2 (2010) pp. 813-819
G6 Optimum Road Pavement from the Viewpoint of CO2 Emission Reduction	Yuta Iwatani Kenji Kawai Yusuke Aoki Akihiro Fujiki	Proceedings of Sessions in Honor of Professor Koji Sakai, the Second International Conference on Sustainable Construction Materials and Technologies, Ancona, 2 (2010) pp. 1041-1048
G7 Study on Modeling for Sulfuric Acid Resistance of Cement Hydrates Using a Simple Test Method	Hiroyuki Morita Yasuhiko Matsui Kenji Kawai	Proceedings of the 4th ACF International Conference, Taipei, (2010)
G8 Leaching Behavior of Heavy Metals in Cement Hydrates after Calcium Hydroxide Leaching	Hayato Takaya Hiromitsu Kikuchi Kenji Kawai	Proceedings of the 4th ACF International Conference, Taipei, (2010)
G9 Improvement of Properties of B-Type Blast Furnace Slag Cement Concrete by Internal Curing	Akira Shigematsu Ryoichi Sato Tatsuya Nukushina Mamoru Kimura	Proceedings of Sessions in Honor of Professor Koji Sakai, the Second International Conference on Sustainable Construction Materials and Technologies, Ancona, (2010) pp. 95-103
G10 Proposal of Effective concrete cover in consideration of deterioration by internal cracking	I. Ujike Ryoichi Sato S. Okazaki	Proceedings of the 2nd International Symposium, "Service Life Design for Infrastructure", Delft, 1 (2010) pp. 41-48
G11 CORROSION OF REINFORCING STEEL AND BEHAVIOUR OF REINFORCED CONCRETE BEAMS UNDER SUSTAINED LOAD	Anongdeth Phetkaysone Ryoichi Sato Ryohei Yamada	Proceedings of the 2nd International Symposium, "Service Life Design for Infrastructure", Delft, 2 (2010) pp. 645-654

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G14 Multi-Folding Behaviour of a Tree Structure	I. ARIO A. Watson M. Nakazawa	The proceedings of the 9th World Congress on Computational Mechanics, 9 (2010)
G15 Development of the Prototype of a New Emergency Bridge based on the Concept of Optimized Structure	Ichiro Ario Yoshikazu TANAKA Masatoshi NAKAZAWA Yusuke FURUKAWA Yuki CHIKAHIRO Izumi TANIKURA Syuichi ONO	Proc. of China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems, 6 (2010) pp. 1-10
G16 Extended and Multiple Duffing Oscillation Model in Multi-folding System with multiple bifurcation points	A. Watson I. Ario	Dynamics Days Europe 2010, (2010)
G17 Evaluation method of remaining strength for plate girders with local corrosion	M. FUKUDA T. NAKAYAMA S. MATSUI K. FUJII	The 9th international Conference on Civil and Environmental Engineering (ICCEE2010), (2010) pp. CD-ROM
G18 Mechanical behavior of a composite box bridge used for 40 years	S. YAMAGUCHI K. FUJII M. FUJII T. YAMAMOTO	The 9th international Conference on Civil and Environmental Engineering (ICCEE2010), (2010) pp. CD-ROM
G19 Cyclic loading analysis of axial member covered with tube	Y. YAMASHITA K. FUJII	The 9th international Conference on Civil and Environmental Engineering (ICCEE2010), (2010) pp. CD-ROM
G20 EXTRACTION AND VISUALIZATION OF NUMERICAL AND NAMED ENTITY INFORMATION FROM A VERY LARGE NUMBER OF DOCUMENTS USING NATURAL LANGUAGE PROCESSING	Masaki Murata Tamotsu Shirado Kentaro Torisawa Masakazu Iwatate Koji Ichii Qing Ma Toshiyuki Kanamaru	International Journal of Innovative Computing, Information and Control, 6 , 3 (2010) pp. 1549-1568
G21 Biological oxidation of dissolved methane in eddluents from anaerobic reactors using a down-flow hanging sponge reactor	Masashi Hatamoto Hiroki Yamamoto Tomonori Kindaichi Noriatsu Ozaki Akiyoshi Ohashi	WATER RESEARCH, 44 , 5 (2010) pp. 1409-1418
G22 Peptide nucleic acids (PNAs) antisense effect to bacterial growth and their application potentiality in biotechnology	Masashi Hatamoto Akiyoshi Ohashi Hiroyuki Imachi	Apple Microbiol Biotechno, 86 , 2 (2010) pp. 397-402
G23 Detection of Single Copy Genes by Two-Pass Tyramide Signal Amplification Fluorescence in situ Hybridization (Two-Pass TSA-FISH) with Single Oligonucleotide Probes	Shuji Kawakami Kengo Kubota Hiroyuki Imachi Takashi Yamaguchi Hideki Harada Akiyoshi Ohashi	Microbes and Environments, 25 , 1 (2010) pp. 15-21
G24 Closed DHS system to prevent dissolved methane emissions as greenhouse gas in anaerobic wastewater treatment by its recovery and biological oxidation	Norihsa Matsuura Masashi Hatamoto Haruhiko Sumino Kazuaki Syutsubo Takashi Yamaguchi Akiyoshi Ohashi	Water Science and Technology-WST, 61 , 9 (2010) pp. 2407-2415

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G26 Recovery of Phosphorus as Highly Concentrated Solution Using an Anaerobic-Oxic DHS Reactor.	Hiroya Koder Masashi Hatamoto Kenichi Abe Tomonori Kindaichi Noriatsu Ozaki Akiyoshi Ohashi	Water and Environment Technology Conference International Forum for Scientists and Engineers, (2010)
G27 Nitrous Oxide Production and Succession of Bacterial Community in a Nitrogen Removal Trickling Filter Reactor.	Kenichi Abe Tomonori Kindaichi Noriatsu Ozaki Takashi Yamaguchi Akiyoshi Ohashi	Water and Environment Technology Conference International Forum for Scientists and Engineers, (2010)
G28 Recovery and Biological Oxidation of Dissolved Methane from Anaerobic Wastewater Treatment Process Using Two Closed-DHS Reactors.	Norihisa Matsuura Masashi Hatamoto Shinya Ono Haruhiko Sumino Kazuaki Syutsubo Takashi Yamaguchi Akiyoshi Ohashi	Water and Environment Technology Conference International Forum for Scientists and Engineers, (2010)
G29 Effects of anaerobic-aerobic period on the microbial community structure of polyphosphate accumulating organisms.	Hiroya Koder Masashi Hatamoto Tomonori Kindaichi Noriatsu Ozaki Akiyoshi Ohashi	13th International Symposium on Microbial Ecology(isme13), (2010)
G30 Evaluation of anammox activity and dissimilatory nitrate reduction in the presence of acetate or propionate.	Takanori Awata Tomonori Kindaichi Noriatsu Ozaki Akiyoshi Ohashi	13th International Symposium on Microbial Ecology(isme13), (2010)
G31 Enrichment of marine anammox bacteria in Hiroshima Bay sediments	Tomonori Kindaichi Takanori Awata Katsuchihiro Tanabe Noriatsu Ozaki Akiyoshi Ohashi	Proceedings of IWA World Water Congress and Exhibition in Montreal, (2010)
G32 Increases in anammox activity under the existence of acetate and nitrate.	Takanori Awata Tomonori Kindaichi Noriatsu Ozaki Akiyoshi Ohashi	International Conference on Civil and Environmental Engineering IC-CEE 2010, (2010) pp. 142
G33 Phosphorus recovery as condensed liquid using an anaerobic-oxic DHS reactor.	Hiroya Koder Tomonori Kindaichi Noriatsu Ozaki Akiyoshi Ohashi	International Conference on Civil and Environmental Engineering IC-CEE 2010, (2010) pp. 143
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G36 Mean flow and turbulence structure in meandering open channel flows with submerged and emergent vegetation	Fatima Jahra Hiroyuki Yamamoto Fumiaki Hasegawa Yoshihisa Kawahara	Proc. of Int. Conference on Fluvial Hydraulics (River Flow 2010), (2010) pp. 153-161
G37 Flow-vegetation interaction in a compound open channel with emergent vegetation	Fatima Jahra Hiroyuki Yamamoto Fumiaki Hasegawa Yoshihisa Kawahara	Proc. of Int. Symposium on Ecohydraulics (ISE2010), (2010) pp. 1404-1411

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G44 Long-term measurement of stream flow and salinity in a tidal river by the use of the fluvial acoustic tomography system	Kiyosi Kawanisi Mahdi Razaz Arata Kaneko Satoshi Watanabe	Journal of Hydrology, 380 , 1-2 (2010) pp. 74-81
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G52 Preliminary findings of SPM size in the Ota Floodway	Mahdi Razaz Kiyosi Kawanisi	Proc. of 9th International Conference on Civil and Environmental Engineering (ICCEE2010), (2010)
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G59 Empirical analysis on inter-regional tourism demand in Japan considering trip generation, Journal of the Eastern Asia Society for Transportation Studies	Tsukai, M. Okumura, M. Kuвано., M.	Journal of the Eastern Asia Society for Transportation Studies, 8 (2010) pp. 1054-1068
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G62 Modeling of household vehicle transactions with interdependency of vehicle ownership and use behavior	Iwamoto, M. Kuвано, M. Tsukai, M. Fujiwara, A. Zhang, J.	Proc. of 9th International Conference on Civil and Environmental Engineering (ICCEE2010), (2010)
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H6 An Eulerian Scheme with Lagrangian Particle for Evaluation of Seakeeping Performance of Ship in Nonlinear Wave	Suandar BASO Hidemi MUTSUDA Takehiro KURIHARA Takayuki KUROKAWA Yasuaki DOI	International Journal of Offshore and Polar Engineering, Vol.21 , No.1 (2010) pp. 1-8
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H11 A Technology of Electrical Energy Generated from Ocean Power Using Flexible Piezoelectric Device	Hidemi MUTSUDA Kenta KAWAKAMI Takayuki KUROKAWA Yasuaki DOI Yoshikazu TANAKA	Proceedings of the ASME 29th International Conference on Ocean, Offshore and Arctic Engineering, ISBN:978-0-7918-3873-0 (2010)
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H23 The First Chinese Coastal Acoustic Tomography Experiment, Proceedings of OCEANS' 10 IEEE Sydney	Xiaohua Zhu Arata Kaneko Qingsong Wu Noriaki Gohda Chuangzheng Zhang Naokazu Taniguchi	Proceedings of OCEANS' 10 IEEE Sydney, Sydney , Australia (2010)
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H26 Annual variation of the southern boundary current in the Banda Sea	Fadli Syamsudin H. M. van Aken Arata Kaneko	Dynamics of Atmospheres and Oceans, 50 (2010) pp. 129-139
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H40 Integration of shape and topology optimizations based on phase field method	Akihiro Takezawa Mitsuru Kitamura	Proceedings of the 6th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems, (2010)
H41 Robust topology optimization for the worst load case	Satoru Nii Akihiro Takezawa Mitsuru Kitamura	Proceedings of the 6th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems, (2010)
H42 Topology optimization for load cells including location of strain gauges	Masahiro Kobayashi Akihiro Takezawa Mitsuru Kitamura Emilio C. N. Silva	Proceedings of the 6th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems, (2010)
H43 Robust topology optimization for the worst load case based on aggregation of linear system	Akihiro Takezawa Satoru Nii Mitsuru Kitamura Nozomu Kogiso	Proceedings of the 13th AIAA/ISSMO Multidisciplinary Analysis Optimization Conference, (2010)
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H45 Development of contact-type sensor using piezoelectric film for guided wave measurement	Yoshikazu Tanaka Eiji Tamoto Yukio Fujimoto	International journal of applied electromagnetic and mechanics, 33 , 3-4 (2010) pp. 1237-1244
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I3 Influence of difference in rock on properties of fresh concrete containing classified crushed powder	Satoshi Fujimoto Katsuyoshi Hashimoto Takato Kaya	Proceedings of The 10th Korea/Japan Joint Symposium on Building Materials and Construction, (2010) pp. 167-172
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I5 Combined interior-point method and semismooth Newton method for frictionless contact problem	Tomoshi Miyamura Yoshihiro Kanno Makoto Ohsaki	Int. J. Num. Meth. Eng., 81 (2010) pp. 701-727
I6 Shape optimization of free-form shells using invariants of parametric surface	Shinnosuke Fujita Makoto Ohsaki	Int. J. Space Struct., 25 (2010) pp. 143-157
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I12 Shape optimization of clamping members of frame-supported membrane structures under stress constraints	Jun Fujiwara Taku Nakajima Makoto Ohsaki Fumiyoshi Takeda	Proc. 6th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (CJK-OSM6), (2010)
I13 Dynamic property evaluations of full-scale 4-story steel frame using parallel FE-analysis	Masayuki Kohiyama Makoto Ohsaki Tomoshi Miyamura Kunizo Onda Daigoro Isobe Hiroshi Akiba Muneo Hori Koichi Kajiwara Tatsuhiko Ine	Proc. 9th US National and 10th Canadian Conf. on Earthquake Engineering, (2010)

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I19 Study on the numerical analysis for structural detail of timber frame based on partial compressive strain behavior of the joints	Shinya Matsumoto Yoshinobu Fujitani Yoshiyuki Suzuki	WCTE World Conference on Timber Engineering 2010, Vol. IV (2010) pp. 1001-1002
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I25 The Effect of the Electric Pole Elimination on the Psychological Evaluation of Streetscape	Daisaku Nishina Hiroshi Oishi Takahiro Tanaka Yuka Maeno	Proceedings of the 9th International Symposium for Environment-Behavior Studies, (2010) pp. 657-661
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J34 Optimization Vector Quantization by Adaptive Associative-Memory-Based Codebook Learning in Combination with Huffman Coding	A. Kawabata T. Koide H. J. Mattausch	Proc. of First International Confer- ence on Networking and Comput- ing, (ICNC 2010), (2010) pp. 15-19
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