

Asia Simulation Conference 2009

Advance Program

Wednesday, October 7

Room: Hall

10:00-10:50 Opening Ceremony

11:00-11:45 Keynote: Geant4 --- A Simulation Toolkit for Elementary Particles and Nuclei

Chair: Satoshi Tanaka (Ritsumeikan University)

a. Geant4 - Overview and Its Applications

Makoto Asai (SLAC National Accelerator Laboratory)

b. Toward evidence based medicine: Simulation of Radiation Therapy

Takashi Sasaki (KEK and SOKENDAI)

11:45-12:20 Keynote: The status quo and future of Industrial Process Simulation in China

Chair: Satoshi Tanaka (Ritsumeikan University)

Qidi Wu (Tongji University)

12:20-12:55 Keynote: Simulation of Deformation in Robotics

Chair: Satoshi Tanaka (Ritsumeikan University)

Shinichi Hirai (Ritsumeikan University)

13:00-14:00 Lunch Break

14:00-15:00 Organized Session 1: Monte Carlo Method for Particle Transport and Its Applications I

Session Chair: Makoto Asai (SLAC National Accelerator Laboratory)

145 Development of Educational Courseware using Geant4

Koichi Murakami, Katsuya Amako, Hisaya Kurashige, Akihiro Maki, Hajime Yoshida

144 The Geant4-DNA project

Sebastien Incerti, G. Baldacchino, M. Bernal, R. Capra, C. Champion, Z. Francis, S. Guatelli, P. Gueye, Alfonso Mantero, B. Mascialino, P. Moretto, P. Nieminen, A. Rosenfeld, C. Villagrasa, C. Zacharatou

- 134 Study and Simulation of the Calibration of the Drift Tubes for Muon Tracking in the Atlas Experiment at the LHC and Possible Use of Fast Gas Mixtures for SLHC
Enrico Graziani, T. Baroncelli, P. Branchini, S. di Luise, G. Morello, F. Petrucci, D. Sacco, M. Schioppa
- 50 A Hadro-Molecular Dynamic Calculation
Shin Muroya

15:15-16:30 Organized Session 1: Monte Carlo Method for Particle Transport and Its Applications II

Session Chair: Makoto Asai (SLAC National Accelerator Laboratory)

- 54 A Volume Visualization Extension for Geant4-based Radiotherapy Simulation
Akinori Kimura, Kyoko Hasegawa, Ayumu Saitoh, Satoshi Tanaka
- 128 A Case Study of Design Scheme for Radiation Therapy Simulations Based on the Geant4 Toolkit: From a Simple Brachytherapy to a Proton Therapy
Jungwook Shin, Sung Yong Park, Dongho Shin, Dongwook Kin, Meonggeun Yoon, Yeongkyung Lim, Se Byeong Lee
- 111 Research and Clinical Implementation of Monte Carlo Simulation in CGU/CGMH
Tsi-chian Chao, Chung-Chi Lee, Chuan-Jong Tung, Shu-Ju Tu, Hui-Yu Tsai
- 47 Improvements of Computational Efficiency on GEANT4 Based Proton Therapy Simulation
Tsukasa Aso, Takashi Sasaki
- 106 A Prototyping of Web Interface for Treatment Planning in Radiotherapy in the Multi Grid Infrastructure
Go Iwai, Yutaka Kawai, Takashi Sasaki, Yoshiyuki Watase

Room: K309

14:00-15:00 Organized Session 10: Virtual Prototyping I

Session Chair: Lin Zhang (Beijing University of Aeronautics and Astronautics)

- 8 Nematodynamics on the basis of Landau-de Gennes Tensorial Approach
Masahiro Nakagawa
- 56 Federal Interoperable Collaboration Platform for Complex Product Development
Wenhui Fan, Tianyuan Xiao, Hongbo Sun, Cheng Ma, Hao Li
- 73 Research on Quantitative and Qualitative Synthetic M&S Language in Complex System

Shuai Fan, Bo Hu Li, Xudong Chai, Tan Li

- 74 Research on qualitative modeling and qualitative/quantitative joint simulation of Complex System

Tan Li, Xudong Chai, Shuai Fan

15:15-16:30 Organized Session 10: Virtual Prototyping II

Session Chair: Xiao Song (Beijing University of Aeronautics and Astronautics)

- 78 Research and Implementation of a Distributed Autonomous RTI
Cheng Ma, Tianyuan Xiao, Wenhui Fan, Hongbo Sun
- 81 A Multi-disciplinary Simulation Framework based on Semantic-SOA
Lai Li Yuanjun, Song Xiao, Zhang Lin, Si Nan
- 83 Multi-Resolution Modeling Based on BOMs
Yuan LI, Bo Hu Li, Xudong Chai, Baocun Hou
- 99 Probabilistic Costing of Transmission Services with Security Constrained Economic Dispatch by Monte Carlo Simulation Approach
Pratthaya Nawig, Somporn Sirisumrannukul
- 131 Pressure prediction by simulation on the deformation after wearing pressure garment
Wing Yan Leung, Da Wai Yuen, Sun Pui Ng., San Qiang Shi

Room: K310

14:00-15:00 General Session 1: Parameter Estimation I

Session Chair: Akira Amano (Ritsumeikan University)

- 29 The Efficient Search Method for High Risk Events of Large-scale Power Systems
Tetsushi Miki
- 61 The Optimal Design of gas oven assembly line with the Simulation and Evolution Strategy
Kyung-Rok Kim, Hong-Chul Lee
- 68 FIR Firearm Identification System
Pitak Thumwarin, Chawarit Prasit, Thienchai Suwanvesh, Takenobu Matsuura
- 69 Research on Situation Assessment for Automatic Flight Control System
Cao Lu, Zhang An, Guo Feng-juan

15:15-16:15 General Session 2: parameter Estimation II

Session Chair: Akira Amano (Ritsumeikan University)

- 121 The Simulation for Conceptual Design Using the Particles Methodologies
Kento Yoshioka, Hiroshi Hasegawa

- 122 A New Approach to Nonlinear Descriptor Systems with Variable Rank of Jacobians
Joe Imae, Koichiro Yoshimura, Guisheng Zhai, Tomoaki Kobayashi
- 125 Episode Continuation and Exploration Start for Reinforcement Learning with Large Number of States
Boontee Kruatrachue, Ekaphol Anantapornkit
- 141 Error Analysis of Temperature Measurement: a case study of PT100
Lerdlekha Tanachaikhan, Narin Tammarugwattana, Witsarut Sriratana, Tawatchai Saengratipen

Room: K304

14:00-15:00 General Session 3: Complex System

Session Chair: Joe Imae (Osaka Prefecture University)

- 49 Risk-shifting Incentive Problem and Volatility
Masatoshi Miyake, Hiroshi Inoue
- 101 Impacts of Protective Devices and Dynamic Voltage Restorer on Voltage Sag in Distribution Systems
Tanit Meananeatra, Jutanon Kaewmanee, Somporn Sirisumrannukul
- 152 Simulation on Pneumatic Vacuum Circuit with Ejector
Zhonghua Guo, Xiaoning Li, Xin Li, Kenji Kawashima, Toshiharu Kagawa
- 162 Robustness Problems and Verified Computations for Computational Geometry
Katsuhisa Ozaki, Takeshi Ogita, Shin'ichi Oishi

15:15-16:15 General Session 4: Control System

Session Chair: Osamu Ono (Meiji University)

- 113 State Space for Control Systems Using Bond Graph Approach
Shervin Mansouri Guilani, Sajad Shamsipour, Alireza Novinzadeh
- 159 Accurate Steering Motor Control Method of Steer-by-wire System and the HILS Experiment
Kazumasa Hashimoto, Naoto Fukushima, Ichiro Hagiwara
- 91 Optimal H2 Controller Design with Derivative State Constraints for Torsional Vibration System
Noriyuki Komine, Sungwan Boksuwan, Taworn Benjanarasuth, Jongkol Ngamwiwit
- 67 Friction Estimation and Compensation for Rotational System using Unscented Kalman Filter
Boonsri Kaewkham-ai, Kasemsak Uthaichana

Thursday, October 8

Room: Hall

11:40-12:15 Keynote: An Architecture of a Model-Management- System

Chair: Toshiharu Kagawa (Tokyo Institute of Technology)

Axel Lehmann (Universitaet der Bundeswehr Muenchen)

12:15-12:50 Keynote: Virtual Laboratory as Effective E-Learning Teaching Aids in Control Systems

Chair: Toshiharu Kagawa (Tokyo Institute of Technology)

Marzuki Khalid (Universiti Teknologi Malaysia)

13:00-14:00 Lunch Break / Poster Session

14:00-15:30 Organized Session 6: Visualization/VR I

Session Chair: Taku Itoh (Seikei University)

- 38 Heat Transfer Analysis Using Modified Radial Point Interpolation Method
Kyoko Hasegawa, Susumu Nakata, Satoshi Tanaka
- 45 A Visualization Tool for Meshfree Analysis of Three-Dimensional Solids
Ryohei Koga, Kyoko Hasegawa, Susumu Nakata, Satoshi Tanaka
- 42 Data Interpolation Independent of Grid Structure Using a Volumic Version of MPU
Yuusuke Tsukamoto, Shinji Kataoka, Kyoko Hasegawa, Susumu Nakata, Satoshi Tanaka
- 44 Monte Carlo Sampling with Adaptive Space Partitioning of MPU for Volume Visualization
Hideo Nakajima, Kyoko Hasegawa, Susumu Nakata, Satoshi Tanaka
- 140 Visualization for Large-scale High Frequency Electromagnetic Field Analysis Using Hierarchical Domain-decomposition Data Structure
Amane Takei
- 58 Automatic Modeling of Virtual 3D Streets Based on GIS Data - Application to Generation of Kyoto in the Edo Era -
Masakazu Sawai, Yuzuru Isoda, Akihiro Tsukamoto, Yoshihiro Kosaka, Kyoko Hasegawa, Susumu Nakata, Satoshi Tanaka

15:45-17:00 Organized Session 6: Visualization/VR II

Session Chair: Satoshi Tanaka (Ritsumeikan University)

- 92 A Streamline Visualization Technique for Sub-volume Based CFD Results
Takuma Kawamura, Naohisa Sakamoto, Koji Koyamada
- 102 A Study on the Effects of Highlighted Display on Knowledge Worker Productivity
Jinwu Seo, Kyung Yong Yoo, Jinwoo Park
- 129 A Feedback Control Method for Dynamical Simulation Systems to Make 3DCG Animations of Continuum Shells
Ippei Takeuchi, Masatoshi Ochiai, Hiromu Saito, Ryo Asakura, Motofumi Hattori
- 139 Estimation of the Real Time Visualization System using Shared Space by 2D Viewer for Distributed Calculation
Osamu Ohta, Teruo Matsuzawa
- 79 Design of Scientific Concept Vocabulary for Annotation Method of Visualization System
Chiaki Kino, Yoshio Suzuki, Hiroshi Takemiya
- 168 Visual Simulation of Ancient Book Printing
Xin Yin, Hiromi Tanaka

Room: K309

10:00-10:30 General Session 5: Simulation Platform

Session Chair: Joe Imae (Osaka Prefecture University)

- 32 A Probabilistic and Commutative Re-Encryption Scheme
Shinsuke Tamura, Rokibul Alam, Hazim Haddad
- 60 Many-Particle Simulation for Ion-Ion Coulomb Interactions in the Trapped-Ion Cell of an FT-ICR Mass Spectrometer using a Special-Purpose Computer Board
Makoto Fujiwara

13:00-14:00 Lunch Break / Poster Session

14:00-15:00 Organized Session 8: Dynamic analysis of discrete-time neural networks I

Session Chair: Tadahiro Taniguchi (Ritsumeikan University)

- 4 Some Results Concerning State Estimation of Discrete-Time Delayed Neural Networks
Xuyang Lou, Baotong Cui
- 10 Delay-dependent stability for uncertain stochastic recurrent neural networks with discrete and distributed delays
Li Sheng, Huizhong Yang
- 12 Two-frequency-loop Optimal Control for Wind Energy Conversion System Based on H^∞ Dynamic Output Feedback

Chen Jinjun, Pan Tinglong, Shen Yan-xia, Ji Zhi-cheng

- 13 A Novel Speed Sensorless Control of Induction Motor
Shen Yanxia, Zhang Haiguang, Wu Lingli, Ji Zhi-cheng

15:15-16:15 Organized Session 8: Dynamic analysis of discrete-time neural networks II

Session Chair: Tadahiro Taniguchi (Ritsumeikan University)

- 16 Modeling and Simulation of Large Scale Multi-Item Stochastic Inventory System
Yukun Liu
- 26 Global Exponential Stability in Lagrange Sense for Cohen-Grossberg Neural Networks with Time-varying Delays
Yan-yan Chen, Qi Luo
- 40 Minimum Complex Network of Chaotic Robots
Nur Rohman Rosyid, Pitikhate Sooraksa
- 66 Non-Symmetric Charge Sustaining Strategy for Supervisory Predictive Control of Batteries in Hybrid Electric Vehicles
Kasemsak Uthaichana

Room: K310

10:00-11:00 General Session 6: Computational Engineering I

Session Chair: Ayumu Saitoh (University of Hyogo)

- 95 Temperature Dependence of Colloidal Aggregation: Cluster-Moving Monte Carlo Simulation
Junjun Jia, Jin Zhu, Shuichi Iwata
- 120 Temperature compensation in differential pressure method for air leakage detection
Lai Lai Oo, Chongho Youn, Toshiharu Kagawa
- 127 Convergence Property of Underwater Aplanatic Acoustic Lens with Changing Water Temperature and F Number
Yuji Sato, Koichi Mizutani, Naoto Wakatsuki, Toshiaki Nakamura
- 130 Study on Unsteady Temperature Change of the Circular Cylinder
Toshiharu Kagawa, Lai Lai Oo, Xin Li, Chongho Youn

13:00-14:00 Lunch Break / Poster Session

14:00-15:00 General Session 7: Computational Engineering II

Session Chair: Ayumu Saitoh (University of Hyogo)

- 135 A Numerical Study on Vortex Cup

Xin Li

- 148 Two-Dimensional Boundary Element Analysis of Slant Edge Cracked Rectangular Plate Using Near-Tip Solution

Xin Li, Kenji Kawashima, Toshiharu Kagawa, Chongo Youn

- 149 Analysis on Flow Rate Characteristics of Porous Materials

Wei Zhong, Guoliang Tao, Xin Li, Kenji Kawashima, Toshiharu Kagawa

- 154 The Vibration Analyses of Truss core panel

So Tanaka, Kazuya Saito, Hiroaki Morimura, Ichiro Hagiwara

15:15-16:00 General Session 8: Computational Engineering III

Session Chair: Toshio Furukawa (University of the Ryukyus)

- 155 Flooding Properties of Low-Lying Tokyo Area with Respect to Levee Breaching Phenomenon

Sena Serhadlioglu, Shintaro Bunya, Shinobu Yoshimura

- 163 Guaranteed error estimate for solutions to linear two-point boundary value problems with FEM

Akitoshi Takayasu, Shin'ichi Oishi, Takayuki Kubo

- 96 Distributed Stochastic Finite Element on a Desktop Grid Integrated with Cloud

Yohei Sato, Hiroshi Okuda

Room: K304

10:00-10:45 General Session 9: Visual Simulation I

Session Chair: Mitsunori Makino (Chuo University)

- 7 Thermal Segmented-Based Face Identification System

Khairul Hamimah Abas, Osamu Ono, Kiyotaka Suzuki, Sachio Yoshida

- 62 Influence of Principal Point on Camera Calibration Algorithms

Kaset Sirisantamrid, Kitti Tirasesth, Takenobu Matsuura

- 64 A Method of Boundary Estimation from 3D Scattered Point Data without Normals by Implicit Function and Delaunay Tetrahedralization

Taku Itoh

13:00-14:00 Lunch Break / Poster Session

14:00-14:45 General Session 10: Visual Simulation II

Session Chair: Taro Tezuka (Ritsumeikan University)

- 115 A Recognition System for Stamped Number on Non-Smooth Metallic Surface

Taweepol Suesut

- 126 Implementation of a Human-Like Bot in a First Person Shooter: Second Place Bot at BotPrize 2008

Daichi Hirono, Ruck Thawonmas

- 156 Feature-preservation and Anti-shrinkage Smoothing of Point Sets

Gang Tong, Zhuoqi Wu, Ichiro Hagiwara

15:00-15:45 General Session 11: Visual Simulation III

Session Chair: Naohisa Sakamoto (Kyoto University)

- 157 Texture Replacement of Architecture in Single Image

Zheng Gong, Ichiro Hagiwara

- 158 Investigation of adaptive image paralleling segmentation algorithm

Peng Hao, Ichiro Hagiwara

- 161 Eigenvector based feature region partition algorithm for registration of measured point cloud

Fang Xu, Lirong Wang, Jiakai Wang, Ichiro Hagiwara

Room: K305

10:00-10:45 General Session 19: Medical Application

Session Chair: Kazunori Nozaki (Osaka University)

- 110 SIGEN: System for Reconstructing Three-Dimensional Structure of Insect Neurons

Toshifumi Minemoto, Ayumu Saitoh, Hidetoshi Ikeno, Tejiro Isokawa, Naotake Kamiura, Nobuyuki Matsui, Ryohei Kanzaki

- 119 Combined Medical Imaging with CFD Analysis for Application of Diagnostic and Treatment Planning: The Case Study of Human Nasal Airflow Simulation Based on CT Imaging

Khaisang Hemtiwakorn, Niwat Phoocharoen, Visan Mahasitthiwat, Supan Tungjatkusolmun, Manus Sangworasil, Chuchart Pintavirooj

- 138 Analysis of the underlying mechanism of Frank-Starling Law of a Constructive Hemodynamics Model

Mitsuharu Mishima, Takao Shimayoshi, Akira Amano, Tetsuya Matsuda

13:00-14:00 Lunch Break / Poster Session

14:00-14:45 General Session 20: Network Modeling

Session Chair: Toshiharu Kagawa (Tokyo Institute of Technology)

- 77 Wide-Band Slot Antenna Fed by Coplanar Waveguide for WLAN Applications

Weerathep Kueathaweekun, Noppin Anantrasirichai, Chawalit Benjangkaprasert,

- Weerathep Kueathaweekun, Sutheera Puntheeranurak, Chawalit Benjangkprasert, Noppin Anantrasirichai, Toshio Wakabayashi*
- 87 The Modifiactions of Low Pass Filter Responses by The Generalized Bessel Transformation With Equal-Ripple Attenuation in The Stopband
Virote Pirajnanchai, Numyoot Songthnapitak, Kanok Janchitrapongvej
- 98 Performance Comparison of AOMDV and AODV for Mobile Ad Hoc Networks
Jintana Nakasuwan, Paitoon Raklure

Friday, October 9

Room: Hall

10:00-11:15 Organized Session 1: Brain Simulation I

Session Chair: Ikuko Nishikawa (Ritsumeikan University)

- 31 Estimation of Intracellular Calcium Ion Concentration by Nonlinear State Space Modeling
Takamasa Tsunoda, Toshiaki Omori, Hiroyoshi Miyakawa, Masato Okada, Toru Aonishi
- 28 Fusion of real neuron and mathematical model by using dynamic clamp technique
*Toru Aonishi, Takamasa Tsunoda, Keisuke Ota
Toshiaki Omori, Masato Okada, Hiroyoshi Miyakawa*
- 90 Estimation of non-uniform membrane property over the dendrite: data assimilation approach using bioimaging data and multi-compartment model
Toshiaki Omori, Toru Aonishi, Hiroyoshi Miyakawa, Masashi Inoue, Masato Okada
- 86 A quantitative modeling of neural morphological polarization
Yuichi Sakumura
- 39 Biophysical modeling of spike-timing-dependent plasticity
Hidetoshi Urakubo, Minoru Honda, Shinya Kuroda

11:40-12:15 Keynote: Micro-Satellite "Maido-1 (SOHLA-1)": Lessons Learned in Design, Development and Operation

Chair: Ichiro Hagiwara (Tokyo Institute of Technology)

Hiroshi Okubo (Osaka Prefecture University)

12:15-12:50 Keynote: The Next-Generation Supercomputer Project

Chair: Ichiro Hagiwara (Tokyo Institute of Technology)

Tadashi Watanabe (RIKEN)

13:00-14:00 Lunch Break

14:00-15:00 Organized Session 1: Brain Simulation II

Session Chair: Ryota Kobayashi (Ritsumeikan University)

- 41 Functional Changes Induced by Multiple Plasticity Rules in the Hippocampal Circuit: Simulation and Experiment
Siu Kang, Rie Kimura, Norio Matsuki, Yuji Ikegaya, Tomoki Fukai
- 71 Dopaminergic Modulation of Neural Activity in a Computational Model of Subthalamic Nucleus and Globus Pallidus Network
Noriaki Iida, Tomohiro Fujita, Tomoki Fukai, Katsunori Kitano
- 84 A simulation of the dynamics of the premotor center in an insect brain to generate programmed behavior for the pheromone orientation
Ikuko Nishikawa, Yoshiki Igarashi, Akira Takashima, Shigehiro Namiki, Tomoki Kazawa, Stephan Shuichi Haupt, Hidetoshi Ikeno, Ryohei Kanzaki
- 51 Simulation of a small neural network involved in pheromone orientation in male silkmoths
Akira Takashima, Shigehiro Namiki, Tomoki Kazawa, Stephan Haupt, Ikuko Nishikawa, Hidetoshi Ikeno, Ryohei Kanzaki

16:00-17:00 Closing Ceremony

Room: K309

10:00-11:30 General Session 12: Engineering Application I

Session Chair: Yoshio Suzuki (Japan Atomic Energy Agency)

- 6 An Equipment Damaged Grades Assessment Model
Zongchang Xu, Yuefeng Chen, Haitao Li, Hongguo Guo, Yang Xiu
- 30 Two-Degree-of-Freedom Simple Servo Adaptive Control for Two-Inertia System
Taworn Benjanarasuth
- 46 Use of Thermodynamic Simulation for Construction of Fluolide Volatility Process as Advanced Reprocessing
Ippei Amamoto, Takayuki Terai
- 48 Modeling and Performance Simulation for Picking Banana Manipulator Based on Modelica
Hongjun Wang, Xiangjun Zou, Jiaxin Chen, Weihao Ou, Tianhu Liu
- 104 Frequency Characteristics of Duct with Long Sphere Cavity
Kazuhide Okada

- 105 One study of Hardware Modification for Legibility Improvement
Kazuhide Okada

13:00-14:00 Lunch Break

14:00-14:30 General Session 13: Engineering Application II

Session Chair: Hikaru Samukawa (Shibaura Institute of Technology)

- 53 3 Dimensional Implementation of BFA (Backtrack Free path planning Algorithm)
for Manipulators
Tomanari Murata, Shinsuke Tamura, Masayuki Kawai (University of Fukui)
- 137 The Simulation of Tiptoe Mechanism for Biped Robots
Masayuki Saiki, Naoya Ito, Hiroshi Hasegawa

15:00-15:45 General Session 14: Engineering Application III

Session Chair: Hikaru Samukawa (Shibaura Institute of Technology)

- 142 Design of Piezoelectric Sensor with Multimode for Liquid Properties
Jun Takarada, Naoto Wakatsuki, Koichi Mizutani, Ken Yamamoto
- 151 Magnetic-Structural Coupled Analysis of MRI Model with Hierarchical Domain
Decomposition Method
Victor Magron, Yushi Mukaida, Shin-Ichiro Sugimoto, Shinobu Yoshimura
- 160 Vibration sensitivity of spacecraft structure under diffused and standing wave
acoustic field load
*Naotaka Kumagai, Qinzhog Shi, Shigemasa Ando, Masahiro Tsuchihashi, Hiroaki
Morimura, Ichiro Hagiwara*

Room: K310

10:00-11:00 General Session 15: Agent-based Modeling

Session Chair: Hiroshi Hasegawa (Shibaura Institute of Technology)

- 5 Pandemic Simulations by MADE: the Hybrid Method of Multi-Agent and
Differential Equations
Yuki Toyosaka, Hideo Hirose
- 36 Multi-Agent System Architecture of Formation Behavior of Airplanes
Liu Yue-feng, Zhang An
- 153 A Virtual Laboratory of Agent-based Simulation of Land-uses
Alexandre Muzy, Eric Innocenti, Dominique Prunetti
- 164 Potential Benefits of Symbiotic Simulation to Pedestrian Evacuation
Seth N. Hetu, Gary Tan

13:00-14:00 Lunch Break

14:00-15:00 General Session 16: Antenna Design

Session Chair: Noriyuki Komine (Tokai University)

- 75 Gain and Radiation Improvement Technique for Rectangular Patch Antenna
Sutham Sathamsakul, Sutheera Puntheeranurak, Chawalit Benjangkprasert, Noppin Anantrasirichai, Toshio Wakabayashi
- 76 Compact CPW-Fed Wide Slot Antenna for Ultra-Wideband Applications
Weerathep Kueathaweekun, Boonchana Purahong, Chawalit Benjangkprasert, Noppin Anantrasirichai, Toshio Wakabayashi
- 80 Study on Microstrip Line Fed Rectangular Slot Antenna for Widen Bandwidth
Tuanjai Achevapanich, Napob Arsusiri, Boonchana Purahong, Ornlarb Sangaroon, Noppin Anantrasirichai
- 89 A Coplanar UWB antenna with notch frequency response
Kritapol Narkcharoen, Wisit Loedhammacakra, Namyoot Songthanapituk

Room: K304

10:00-11:00 General Session 17: Transportation System I

Session Chair: Ichiro Hagiwara (Tokyo Institute of Technology)

- 97 Acquisition of Negotiation Rules for AGV Transportation System by Genetic Based Machine Learning Techniques
Koichi Tanabe, Daisaku Yamada, Kazutoshi Sakakibara, Ikuko Nishikawa
- 15 Research on Train Tracing Simulation System under Moving Block
Ziyan Ma, Minglai Yang, Wei Wang
- 43 Swinging-up and Stabilizing Control of Inverted Pendulum on Cart System by Hybrid Controller
Ekachai Asa, Taworn Benjanarasuth, Noriyuki Komine
- 100 Virtual Social Experiments Using Multi-Agent Based Traffic and Environment Simulator MATES
Hideki Fujii, Shinobu Yoshimura

13:00-14:00 Lunch Break

14:00-14:45 General Session 18: Transportation System II

Session Chair: Koji Koyamada (Kyoto University)

- 107 Automatic Controller of Ms Pac-Man and Its Performance: Winner of the IEEE

CEC 2009 Software Agent Ms. Pac-Man Competition

Ruck Thawonmas, Hiroshi Matsumoto

147 Road Traffic Accident Model considering Driver's Accident Experience

Yasushi Nishida, Toshiharu Kagawa

167 World's First Train Simulation System with Variable-Speed Playback of High-Definition Video

Hisayoshi Ikeda, Michiteru Kodama, Toshikazu Kusakabe, Makoto Sasaki

Room: K305

10:00-11:00 General Session 21: System Design

Session Chair: Satoshi Denno (Kyoto University)

70 Supply-chain simulation using a hybrid-modeling method

Shigeki Umeda, Zhang Fang

33 Theoretical Analysis and Object-Oriented Design of Aggregation and Disaggregation in Multi-Resolution Modeling System

Liu Baohong, Li Ge, Yan Li

103 A Component-Based Performance Classification System for Model-Based Co-Design Approaches

Andreas Liehr, Klaus Buchenrieder

171 HLA Interface for Combined Discrete Event & Discrete Time Simulation Model in Distributed Environment

Sol Ha, Ju-Hwan Cha, Kyu-Yeul Lee