



12TH ISSAT INTERNATIONAL CONFERENCE ON RELIABILITY AND QUALITY IN DESIGN

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RELIABILITY AND QUALITY IN DESIGN

AUGUST 3-5, 2006

CHICAGO, ILLINOIS, USA

CONFERENCE PROGRAM



SPONSOR

The International Society of Science and Applied Technologies (ISSAT)

LOCATION

Radisson Hotel & Suites - Chicago

160 East Huron Street, Chicago, IL 60611 USA

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THURSDAY, AUGUST 3, 2006

8:00 am Registration – Continental Breakfast

9:00 am - 9:10 am Opening Remarks

9:10 am - 10:00 am “Nano Development without Nano Management”

Keynote Speaker: **Dr. Way Kuo**

Dr. Way Kuo is University Distinguished Professor and Dean of Engineering at the University of Tennessee. Dr. Kuo is an elected member of the US National Academy of Engineering, Academia Sinica, Taiwan, R.O.C., and International Academy for Quality. He has co-authored five textbooks and currently serves as the Editor-in-Chief of IEEE Transactions on Reliability.

10:00 am - 10:30 am Coffee Break

SESSION 1

Thursday, August 3, 10:30 am - 12:00 pm

Reliability and Robust Design in Automotive Engineering

Chair: **Everett Kuo** (Ford Motor Company, USA)

Robustness and Reliability Assessment of Vehicle Lateral Drift due to Road Crown

Dexin Wang (Ford Motor Company, USA)

Brian Choi (Ford Motor Company, USA)

Rena Basch (Ford Motor Company, USA)

Design Alternatives for the Reduction of Rear Side Window Wind Throb

Claude McLean (Ford Motor Company, USA)

Sung-Ping Cheng (Ford Motor Company, USA)

William DeDecker (Ford Motor Company, USA)

Using Computer Experiments to Avoid Potential NVH Failure Modes

John E. Huber (Ford Motor Company, USA)

Robert S. Thomas (Ford Motor Company, USA)

Development of Squeak and Rattle Countermeasures through Up-Front Designs

Everett. Y. Kuo (Ford Motor Company, USA)

SESSION 2

Thursday, August 3, 10:30 am - 12:00 pm

Statistical Reliability Computing

Chair: **Balbir S. Dhillon** (University of Ottawa, Canada)

A Central Limit Theorem based on Point Processes with Random Fuzzy Marks

Panlop Zeephongsekul (RMIT University, Australia)

Use of Bayesian Networks in Estimating the Reliability of Distributed Communication Systems

Bahman Honari (Institute of Technology Sligo, Ireland)

John Donovan (Institute of Technology Sligo, Ireland)

Ben Flood (University of Limerick, Ireland)

Eamonn Murphy (University of Limerick, Ireland)

Reliability Analysis of Tampered Failure Rate Load-Sharing k-out-of-n:G Systems

Suprasad V. Amari (Relex Software Corporation, USA)

Krishna B. Misra (RAMS Consultants, India)

Hoang Pham (Rutgers University, USA)

Usability Testing: A Review and an Investigative Study

Balbir S. Dhillon (University of Ottawa, Canada)

SESSION 3

Thursday, August 3, 1:15 pm - 2:45 pm

Software Reliability Modeling

Chair: **Shigeru Yamada** (Tottori University, Japan)

Software Reliability Growth Modeling with Discrete Weibull Software Failure-Occurrence Times Distribution

Shinji Inoue (Tottori University, Japan)

Shigeru Yamada (Tottori University, Japan)

A User-Oriented Reliability Assessment Tool for Open Source Software Development

Koji Hadatsuki (Tottori University, Japan)

Yoshinobu Tamura (Hiroshima Institute of Technology, Japan)

Shigeru Yamada (Tottori University, Japan)

Evaluation Method of Real-time Property for Software System with a Markovian Availability Model

Masamitsu Fukuda (Tottori University, Japan)

Koichi Tokuno (Tottori University, Japan)

Shigeru Yamada (Tottori University, Japan)

Statistical Analysis for Early-Stage Software Product Quality Prediction based on Process Measurement Data

Shigeru Yamada (Tottori University, Japan)

Masafumi Haramoto (Tottori University, Japan)

Toshibiko Fukushima (Nissan Systems Co., Ltd., Japan)

Atsushi Fukuta (Tottori University, Japan)

SESSION 4

Thursday, August 3, 1:15 pm - 2:45 pm

Quality Planning and Measurements I

Chair: **Yi-Kuei Lin** (Vanung University, Taiwan)

Four Patterns of Change Implemented under the Pressure of ISO Quality Certification

Yaw-Tzong Chang (Vanung University, Taiwan)

Chi-Yuan Chen (Nan Kai Institute of Technology, Taiwan)

The Study on College Faculty's Participation in Campus Recreation and Sports Associations

Che-Jen Chung (Vanung University, Taiwan)

Exploring the Linkage between Educational Quality and Student Loyalty

Wen-Kung Lin (Vanung University, Taiwan)

Chou-Kang Chiu (Ching Kuo Institute of Management & Health, Taiwan)

Chieh-Peng Lin (Vanung University, Taiwan)

Chun-Yu Chen (Ching Kuo Institute of Management & Health, Taiwan)

Multiple Commodity Flow Problem with Unreliable Nodes Subject to Budget Constraint

Yi-Kuei Lin (Vanung University, Taiwan)

Yen-Chang Chang (Vanung University, Taiwan)

2:45 pm - 3:00 pm

Coffee Break

SESSION 5

Thursday, August 3, 3:00 pm - 5:00 pm

Reliability and Risk Analysis

Chair: **Gary Harlow** (Lehigh University, USA)

Irredundant Subset Cut Generation to Compute Capacity Related Reliability

Sanjay K. Chaturvedi (Indian Institute of Technology, Kharagpur, India)

Reliability Optimization of a Non-Repairable Compound Series-Parallel System

Chung-Ho Wang (Chung Cheng Institute of Technology National Defense University, Taiwan)

Yi Hsu (National Formosa University, Taiwan)

Considering "After Burn-In Failure Treatment" in Determining Optimal Burn-In

Xin Liu (Delft University of Technology, The Netherlands)

Thomas A. Mazzuchi (The George Washington University, USA)

Contribution to Development of New Risk Analysis Methods

Vladimir Popovic (University of Belgrade, Serbia)

Nikola Vujanovic (Q-Expert International, Serbia)

Branko Vasic (University of Belgrade, Serbia)

Effect of Flame Impingement on Thermal Performance and CO Emissions of Gas-fired Domestic Burners

T.T. Wong (The Hong Kong Polytechnic University, Hong Kong)

C.W. Leung (The Hong Kong Polytechnic University, Hong Kong)

H.B. Li (The Hong Kong Polytechnic University, Hong Kong)

D.Y. Liu (The Hong Kong Polytechnic University, Hong Kong)

SESSION 6

Thursday, August 3, 3:00 pm - 5:00 pm

Quality Planning and Measurements II

Chair: **Chun-Hua Hsiao** (Vanung University, Taiwan)

A Study on Appearance Quality Improvement of Sponge Corner Material for Automotive Products

Shigeru Yamada (Tottori University, Japan)

Kenji Takahashi (Tottori University, Japan)

The Effect of Online Brand Equity on Repurchase Intentions

Ru-Jen Cheng (Vanung University, Taiwan)

Ru-Ling Chen (Jin Wen Institute of Technology, Taiwan)

The Change of Product Efficiency Derived from Expectancy Effect

Tiaojung Hsu (National Taipei University, Taiwan)

Wenchang Fang (National Taipei University, Taiwan)

FISH: Design Quality of Public Toilets for Visually Impaired Persons

Kin Wai Michael Siu (The Hong Kong Polytechnic University, Hong Kong)

Relationships among Customer Orientation, Buyer-Seller Relationship and Outcome Behavior Intentions: A Case Study of Shopping Mall in Taiwan

Chun-Hua Hsiao (Vanung University, Taiwan)

Hsiu-Hui Chang (Chungyu Institute of Technology, Taiwan)

5:30 pm - 7:00 pm **Welcome Reception**

FRIDAY, AUGUST 4, 2006

8:15 am Registration - Continental Breakfast

SESSION 7

Friday, August 4, 8:30 am - 10:00 am

Software Reliability and Testing

Chair: **Taghi M Khoshgoftaar** (Florida Atlantic University, USA)

Software Faults Modeling with Limited Defect Occurrence Knowledge

Naeem Seliya (University of Michigan - Dearborn, USA)

Taghi M. Khoshgoftaar (Florida Atlantic University, USA)

Applying Genetic Algorithm Based Optimizer to Software Quality Classification

Taghi M. Khoshgoftaar (Florida Atlantic University, USA)

Keban Gao (Eastern Connecticut State University, USA)

Software Fault Imputation Accuracy in Noisy and Incomplete Measurement Data

Andres Folleco (Florida Atlantic University, USA)

Taghi M. Khoshgoftaar (Florida Atlantic University, USA)

Jason Van Hulse (Florida Atlantic University, USA)

Lofton Bullard (Florida Atlantic University, USA)

Detecting Mislabeled Instances in Software Measurement Data

Taghi M. Khoshgoftaar (Florida Atlantic University, USA)

Jason Van Hulse (Florida Atlantic University, USA)

Chris Seiffert (Florida Atlantic University, USA)

Lili Zhao (Florida Atlantic University, USA)

SESSION 8

Friday, August 4, 8:30 am - 10:00 am

Optimal Maintenance

Chair: **Toshio Nakagawa** (Aichi Institute of Technology, Japan)

Optimal Policy of a Window Flow Control Scheme with Explicit Congestion Notification

Mitsutaka Kimura (Gifu City Women's College, Japan)

Mitsubiro Imaizumi (Aichi Gakusen University, Japan)

Kazumi Yasui (Aichi Institute of Technology, Japan)

Optimal Incremental Backup Interval Time Policy

Syouji Nakamura (Kinjo Gakuin University, Japan)

Miwako Arafuka (Kinjo Gakuin University, Japan)

Tosbi Nakagawa (Aichi Institute of Technology, Japan)

Inspection Thresholds under Imperfect Inspection

Takashi Satow (Tottori University, Japan)

Hajime Kawai (Tottori University, Japan)

Imperfect Preventive Maintenance Policies for a Cumulative Damage Model

Toshio Nakagawa (Aichi Institute of Technology, Japan)

Satoshi Mizutani (Aichi Institute of Technology, Japan)

10:00 am - 10:15 am Coffee Break

SESSION 9

Friday, August 4, 10:15 am - 11:45 am

Reliability Engineering in Design

Chair: **Elsayed A. Elsayed** (Rutgers University, USA)

Sensors Thresholds in Port-of-Entry Inspection Systems

Hao Zhang (Rutgers University, USA)

Christina M. Schroepfer (Rutgers University, USA)

Elsayed A. Elsayed (Rutgers University, USA)

Pitting Corrosion: The Role of Clusters of Particles

D. Gary Harlow (Lehigh University, USA)

Optimal Design of Closed-Die Forging Blade and Dies based on Assembly Technology

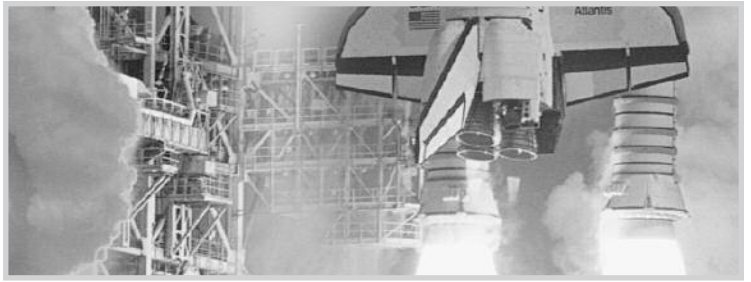
Xiangwei Kong (Northeastern University, China)

Shusen Cui (Corporation AVIC, Ltd, China)

Optimum Threshold Level of Degraded Structures Based on Sensors Data

Elsayed A. Elsayed (Rutgers University, USA)

Hao Zhang (Rutgers University, USA)



SESSION 10

Friday, August 4, 10:15 am - 11:45 am

Connecting Techniques

Chair: **Hurdy Su** (Susuing Co., Ltd., RSA)

Circulation Neighboring Technique and Application

Ying-Chi Tsai Sung (Chienkuo Technology University, Taiwan)

Yean-Cing Hsu (Mandar Beauty Center, Taiwan)

Apply Mediation Method to Financial Statement Analysis

Sbiou-Chih Wang (National Taipei University, Taiwan)

Jui-Hung Su (Fu Jen Catholic University, Taiwan)

Drug Betook System for Drugstore

Yi-Tai Tsai (Chinese Culture University, Taiwan)

Jaw-Sin Su (Chinese Culture University, Taiwan)

Responsive Passengers' Letter System- A Case of Taipei Subway

Yu-Ching Hsu (Chinese Culture University, Taiwan)

Jaw-Sin Su (Chinese Culture University, Taiwan)

12:00 pm – 1:00 pm Luncheon

SESSION 11

Friday, August 4, 1:15 pm - 2:45 pm

Statistical Quality Control and Processes

Chair: **Philippe Castagliola** (Universite de Nantes & IRCCyN, France)

Economic-Statistical Design of a Logarithmic Transformed S^2 EWMA Chart

P. Castagliola (Universite de Nantes & IRCCyN, France)

Giovanni Celano (University of Catania, Italy)

S. Fichera (University of Catania, Italy)

A Synthetic Control Chart for Monitoring the Process Mean and Variance

Antonio F. B. Costa (UNESP-Sao Paulo State University, Brazil)

Maysa S. De Magalbaes (ENCE, Brazil)

Eugenio K. Epprecht (Catholic University of Rio de Janeiro, Brazil)

Challenges in Multivariate Control Charts with Autocorrelated Data

Murat Kulabci (Technical University of Denmark, Denmark)

Soren Bisgaard (University of Massachusetts, USA)

Monitoring Unstable but Capable Processes with the $C_p(u,v)$ System of Capability Indices

Philippe Castagliola (Universite de Nantes & IRCCyN, France)

Kerstin Vännman (Luleå University of Technology, Sweden)



SESSION 12

Friday, August 4, 1:15 pm - 2:45 pm

Software Quality and Reliability

Chair: **Panlop Zeepongsekul** (RMIT University, Australia)

A Study on Two-Parameter Numerical Differentiation Method by Gamma Function Model for Software Reliability Growth Data Analysis
Mitsubiro Kimura (Hosei University, Japan)

Modeling Inspections to Evaluate Prioritization as a Method to Mitigate the Effects of Accelerated Schedules
Greg Twaites (General Dynamics, USA)
James Collofello (Arizona State University, USA)
Fran Zenzen (General Dynamics, USA)

A Study on Software Development for Digital Rights Management
Aaron Chen (Chinese Culture University, Taiwan)
Jaw-Sin Su (Chinese Culture University, Taiwan)

On Methods for Constructing New Multivariate Probability Distributions in System Reliability Framework
Jerzy K. Filus (Oakton Community College, USA)
Lidia Z. Filus (Northeastern Illinois University, USA)

2:45 pm - 3:00 pm Coffee Break

SESSION 13

Friday, August 4, 3:00 pm - 5:00 pm

Reliability and Failure Analysis

Chair: **Liyang Xie** (Northeastern University, China)

Segment-Dependent-Failure Model for Long Pipeline Failure Probability Estimation
Mingchuan Zhang (Northeastern University, China)
Liyang Xie (Northeastern University, China)

Weight Reduction based on Features of Strengthening under Low Amplitude Load
Songlin Zheng (University of Shanghai for Science and Technology, China)
Lu Xi (University of Shanghai for Science and Technology, China)
Chu Chaomei (University of Shanghai for Science and Technology, China)

Kinematics Reliability and Simulation of 3-RPS Parallel Robot
Zhili Sun (Northeastern University, China)
Yang Qiang (Northeastern University, China)
Yan Ming (Northeastern University, China)
Nannan Zhong (Shenyang Normal University, China)

The Improvement of Substructure Method and Its Application
Yongyan Wang (Qingdao University of Science and Technology, China)
Xuanli Zhang (Qingdao University of Science and Technology, China)
Chunlei Zeng (Qingdao University of Science and Technology, China)
Candong Lu (Qingdao University of Science and Technology, China)
Xin He (Qingdao University of Science and Technology, China)

A Load-Weighted Average Model for Fatigue Reliability Calculation Under Stochastic Constant Amplitude Cyclic Load
Liyang Xie (Northeastern University, China)

SESSION 14

Friday, August 4, 3:00 pm - 5:00 pm

Data Assignment

Chair: **Huey-Ming Lee** (Chinese Culture University, Taiwan)

Apply RFID to Suit Case Management of Chinese Opera
Pi Lin (Chinese Culture University, Taiwan)
Jaw-Sin Su (Chinese Culture University, Taiwan)

Break-Even with Line Cutting Method
Shiu-Yun Chang (National Lin-Kou Senior High School, Taiwan)
Tun-Chieh Yang (Hercules Chemicals (Taiwan) Co., Taiwan)

Modeling of the Consistency Problem in Object-Oriented Database
Mei-Tzu Wang (Chinese Culture University, Taiwan)

ITIL Implement and Evaluation
Jun-Jie Wang (Chinese Culture University, Taiwan)
Hurdy Su (Susuing Co., Ltd., RSA)

Curriculum Development with Learning Style - A Case of Adult Education in Taiwan
Claire Yeh (Chinese Culture University, Taiwan)
Chein-Shung Huang (Chinese Culture University, Taiwan)

SATURDAY, AUGUST 5, 2006

8:15 am Registration – Continental Breakfast

SESSION 15

Saturday, August 5, 8:30 am - 10:00 am

Reliability Computing

Co-Chairs: **Liudong Xing** (University of Massachusetts Dartmouth, USA)
Yuanshun Dai (Indiana University, Purdue University Indianapolis, USA)

A Reduced Product Terms for Computing the Reliability of Weighted-k-out-of-n System
Yoichi Higashiyama (Ebime University, Japan)
Ventsi Rumchev (Curtin University of Technology, Australia)

Software Reliability Prediction Improvement with Prior Information Incorporated
Qingpei Hu (National University of Singapore, Singapore)
M. Xie (National University of Singapore, Singapore)
S.H. Ng (National University of Singapore, Singapore)

A New Approach for Reliability and Security in Grid Computing Systems
Yuanshun Dai (Indiana University, Purdue University Indianapolis, USA)
Mingrui Qi (Indiana University, Purdue University Indianapolis, USA)
Xiang Ran (Indiana University, Purdue University Indianapolis, USA)
Xukai Zou (Indiana University, Purdue University Indianapolis, USA)

Application Communication Reliability of Wireless Sensor Networks
Akbilesh Shrestha (University of Massachusetts Dartmouth, USA)
Liudong Xing (University of Massachusetts Dartmouth, USA)
Hong Liu (University of Massachusetts Dartmouth, USA)

SESSION 16

Saturday, August 5, 8:30 am - 10:00 am

Engineering Statistics

Chair: **Ming-Wei Lu** (DaimlerChrysler Corporation, USA)

On Weighted Least Squares Estimation for Parameters of the Two-Parameter Weibull Distribution

Lifang Zhang (National University of Singapore, Singapore)

M. Xie (National University of Singapore, Singapore)

L.C. Tang (National University of Singapore, Singapore)

Economic Design of Control Charts with Burr Distribution for Non-Normally Data under Weibull Shock Models

C. H. Yeh (National Tsing-Hua University, Taiwan)

Feng-Chia Li (National Tsing-Hua University, Taiwan)

P. K. Wang (National Tsing-Hua University, Taiwan)

Statistical Methods for Monitoring Network Resource Distribution Fairness

Zhenmin Chen (Florida International University, USA)

Weibull Data Analysis with Few or No Failures

Ming-Wei Lu (DaimlerChrysler Corporation, USA)

Cheng Julius Wang (DaimlerChrysler Corporation, USA)

10:00 am - 10:15 am Coffee Break

SESSION 17

Saturday, August 5, 10:15 am - 12:15 pm

Quality Engineering in Design

Chair: **Gordon J. Savage** (University of Waterloo, Canada)

The Sampling Strategy of Economic Design of X-Bar Control Charts for Non-Normally Distributed Data under Weibull Shock Models

Cho Hua Yeh (National Tsing Hua University, Taiwan)

F. L. Chen (National Tsing Hua University, Taiwan)

Economic Design and Development of Optimal Upper Specification Limit for a Filling Operation

Andrew D. Ezekiel (Morgan State University, USA)

S. Keith Hargrove (Morgan State University, USA)

Guangming Chen (Morgan State University, USA)

Reliability Analysis of Centrifugal Pumps through Fuzzy Clustering Techniques

M. Bevilacqua (University of Bologna, Italy)

F. E. Ciarapica (Universita' Politecnica della Marche, Italy)

G. Giacchetta (Universita' Politecnica della Marche, Italy)

Development of the Time-Series Forecasting Model by an Artificial Neural Network in the CVS Ordering System

Chung Yin Ou (National Tsing Hua University, Taiwan)

F. L. Chen (National Tsing Hua University, Taiwan)

Economic Design of Engineering Systems with Degrading Components Using Present Worth of Loss of Quality

Young Kap Son (University of Waterloo, Canada)

Gordon J. Savage (University of Waterloo, Canada)

SESSION 18

Saturday, August 5, 10:15 am - 12:15 pm

Software Reliability Engineering

Chair: **Guangbin Yang** (Ford Company, USA)

Extended Software Reliability Growth Modeling Based on Components' Characteristics

Takaji Fujiwara (Fujitsu Peripherals Limited, Japan)

Shigeru Yamada (Tottori University, Japan)

Shinji Inoue (Tottori University, Japan)

A Performance Evaluation of User-Oriented Reliability Assessment Method for an Open Source Software

Yoshinobu Tamura (Hiroshima Institute of Technology, Japan)

Shigeru Yamada (Tottori University, Japan)

Optimal Component Deployment for Maximizing Software Reliability

Michael W. Lipton (IBM Corporation, USA)

Swapna S. Gokhale (University of Connecticut, USA)

Risk Management Techniques for Quality Software Development and Its Quantitative Evaluation

Toshibiko Fukushima (Nissin Systems Co., Ltd., Japan)

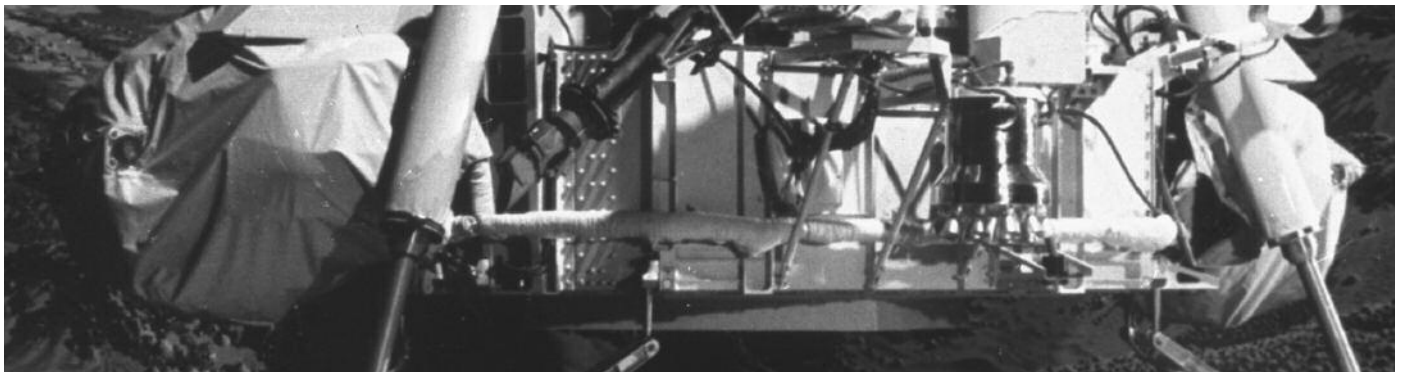
Shigeru Yamada (Tottori University, Japan)

Software Reliability Model Considering Time-Delay Fault Removal

Sebeon Hwang (Rutgers University, USA)

Hoang Pham (Rutgers University, USA)

12:15 pm Adjourn



PRESENTATION

The allotted time for presentation is about 22 minutes. Please prepare your presentation using Power Point since only computer projectors will be used for presentations at the conference. Computer laptop and projectors will be provided.

REGISTRATION

All attendants are required to register. Pre-registration is strongly recommended. The registration fee is US\$ 490.00, which includes: a copy of the Conference Proceedings, gift, refreshments, luncheon, and dinner reception. Payment can be made by check or money order payable to ISSAT (no credit cards will be accepted).

ACCOMMODATION

Accommodation is available for the attendants of the 12th ISSAT International Conference on Reliability and Quality in Design at the Radisson Hotel & Suites - Chicago, Chicago, Illinois, USA, at the conference rate of \$149.00 per night for single or double occupancy plus room tax. Reservation must be made directly with the hotel. To obtain the group rate, request ISSAT Conference rate at booking and make your reservations with the hotel before Sunday, July 16, 2006. See our website for more details.



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REGISTRATION FORM

TWELFTH ISSAT INTERNATIONAL CONFERENCE ON RELIABILITY AND QUALITY IN DESIGN

AUGUST 3-5, 2006, CHICAGO, ILLINOIS, USA

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Upcoming Conference



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