

The International Conference on Information Systems and Engineering

**July 14 - 18, 2002
US Grant Hotel
San Diego, California, USA**

ISE 2002

CONFERENCE PROGRAM

Sunday, July 14, 2002

8:00 AM - 5:00 PM **Conference Registration**

9:00 - 9:10 **Welcome Remarks**
Conference General Chairs

Location: Horton E

9:10 - 12:00 **Tutorial 1 (T1):**

Software Testing for Computer and Information Systems

Dr. Narayan C. Debnath

Winona State University, USA

Session Chair: Dr. Young Park, Bradley University, USA

Location: Horton E

12:00 - 1:00 **Lunch (On Your Own)**

1:00 - 3:00 **Tutorial 2 (T2):**

Formal Concept Analysis and Its Applications

Dr. Young Park

Bradley University, USA

Session Chair: Dr. S.R. Subramanya, University of Missouri, USA
Location: Horton E

3:00 - 3:30 **Coffee Break**

3:30 - 6:00 **Tutorial 3 (T3):**

Image and Video Compression Techniques and Standards

Dr. S. R. Subramanya

University of Missouri—Rolla, USA

Session Chair: Dr. Narayan C. Debnath, Winona State University, USA
Location: Horton E

6:00 - **SCSC'02 Welcome Reception**

Monday, July 15, 2002

8:00 AM - 5:00 PM **Conference Registration**

8:00 AM - 8:30 AM **Informal Meet & Greet - Coffee / Pastries**

8:30 - 9:00 **SCSC Welcome and Opening Remarks**
Jeffrey Wallace, SCSC 2002 General Chair
Location: Meeting Room

9:00 - 10:00 **SCSC 2002 Keynote Speech**
Dr. Francine Berman, Director
San Diego Supercomputing Center
University of California at San Diego, USA
Location: Meeting Room

10:00 - 10:30 **Coffee Break**

10:30 - 11:30 **ISE Keynote Speech**
Sensor Web and Sensor Data Management Research Directions
Dr. Bhavani Thuraisingham, Program Director
The National Science Foundation, Arlington, VA, USA
Session Chair: Dr. Robert Ewing, AFRL, USA
Location: Horton E

11:30 - 12:20 **Session 1 (S1): Knowledge Based and Decision Information Systems**
Session Chair: Dr. Won Bo Shim, Sogang University, Korea
Location: Horton E

*Simulation and Genetic Algorithm Based Discovery of Techniques for
a Multi-agent Fuzzy Expert System*
James F Smith III
Naval Research Laboratory, Washington, D.C.
USA

Temporal Class Mining for Time Series Data
Masahiro Motoyoshi, Takao Miura, Kohei Watanabe, and
Isamu Shioya
Dept. of Elect. and Elect. Engineering

Hosei University, JAPAN

12:20 - 1:45 **Lunch (On Your Own)**

1:45 - 3:00 **Session 2 (S2): Web Based Information Systems and Services**
Session Chair: Dr. S.-C. Chen, Florida International University, USA

Location: Horton E

A New Method for the Distributed Web Document Access Control

Won Bo Shim, Wan Choi, and Seog Park
Department of Computer Science, Sogang University
KOREA

WIDE - Semantic Web for Design and Engineering

Brigitte Koch and Uwe Jasnoch
Fraunhofer Institute for Computer Graphics, Darmstadt
GERMANY

Web Design and Performance Measurement

Hassan A. Artail
Electrical & Computer Engineering, American University of Beirut
LEBANON

3:00 - 3:30 **Coffee Break**

3:30 - 6:00 **Tutorial 4 (T4):**
Computer and Network Security

Dr. S. R. Subramanya
University of Missouri—Rolla, USA

Session Chair: Dr. Hassan A. Artail, American University, Lebanon

Location: Horton E

6:00 - **SCSC'02 Exhibit Reception**

Tuesday, July 16, 2002

8:00 AM - 5:00 PM **Conference Registration**

8:00 AM - 8:30 AM **Informal Meet & Greet - Coffee / Pastries**

8:30 - 10:10 **Session 3 (S3): Multi-Agent Modeling and Simulation**
Session Chair: Dr. Uwe Jasnoch, FICG - Darmstadt, Germany

Location: Horton E

Applying A New Multidimensional Framework to the Evaluation of Multiagent System Methodologies

Arsène Sabas, Mourad Badri and Sylvain Delisle
Departement de Mathématiques et Informatique
Université du Quebec a Trois-Rivières, CANADA

Real-time Fuzzy Resource Manager for Distributed Agents in an Adversarial Environment

James F. Smith III
Naval Research Laboratory, Washington, D.C., USA

Agent-Based Simulation for Networks

Hugues Lecarpentier, Youcef Khene, Dominique Gaiti, Guy Pujolle
Laboratoire d'Informatique de Paris 6
Université Pierre et Marie Curie, FRANCE

MACOM: A Multi-Agent Collaboration Model for Intelligent Building Operations

ZhengChun Mo and Ardeshir Mahdavi
School of Architecture, Carnegie Mellon University, USA

10:10 - 10:30 **Coffee Break**

10:30 - 11:30 ISE'02 Plenary Session I

Science and Technology Challenges for Air Force Information Systems: C4ISR Architectures, Modeling and Simulation

Mr. John Graniero, Director

The Information Institute, Air Force Research
Laboratory, Rome, New York, USA

Session Chair: Dr. Robert Ewing, AFRL, USA

Location: Horton E

11:30 - 12:20 **Session 4 (S4): Frameworks for Information Technologies**
Session Chair: Dr. Gongzhu Hu, Central Michigan University, USA

Location: Horton E

On making RAMSES an Earth Observation Application Framework

Marcello Mariucci and Bernhard Mitschang

Institute of Parallel and Distributed High-Performance Systems

University of Stuttgart, GERMANY

Applying XML/XSLT Technology: A Case Study

Krishnaprasad Thirunarayan

Computer Science and Engineering

Wright State University, USA

12:20 - 1:45 **Lunch (On Your Own)**

1:45 - 3:00 **Session 5 (S5): Multimedia in Information Systems**
Session Chair: Dr. Miguel Rios, Univ. Catolica de Chile, Chile

Location: Horton E

An Efficient Multi-Filter Retrieval Framework for Large Image Databases

Xiuqi Li, Shu-Ching Chen, Mei-Ling Shyu and Borko Furht

School of Computer Science

Florida International University, USA

A Development Method for Reconfigurable Hardware Systems with Real-time Wavelet Image Compression Application

Jeffrey A. Shafer, Waleed W. Smari, and Frank Scarpino

Department of Electrical and Computer Engineering

University of Dayton, USA

Fast Image Transfer with Multi-Layer Image Processing

Mariofanna Milanova, Charles Ford, Roumen Kountchev,

and Roumiana Kountcheva

Department of Computer Science

University of Arkansas at Little Rock, USA

3:00 - 3:30 **Coffee Break**

3:30 - 6:00 **Tutorial 5 (T5):**
Data Processing and Retrieval in Multimedia Database Systems

Dr. Shu-Ching Chen

Florida International University, USA

Session Chair: Dr. Ana Martinez-Garcia, CICESE, Mexico

Location: Horton E

6:00 -

SCS 50th Anniversary Dinner

Location: TBA

Wednesday, July 17, 2002

8:00 AM - 5:00 PM **Conference Registration**

8:00 AM - 8:30 AM **Informal Meet & Greet - Coffee / Pastries**

8:30 - 10:10 **Session 6 (S6): Mining, Search, Reasoning, and Warehousing**
Session Chair: Dr. Li-jie Jin, HP Labs, USA

Location: Horton E

Co-evolutionary Data Mining for Fuzzy Rules in a Multi-Agent Adversarial Environment

James F. Smith III
Naval Research Laboratory, Washington, D.C.
USA

EMA : An Evolutionary Method for Modelling by Mining Examples

Martine Poulard-Collard and Philippe Collard
I3S Laboratory, University of Nice-Sophia Antipolis
FRANCE

Testing Structure of Decision Trees

Tomoya TAKAMITSU, Takao MIURA, Isamu SHIOYA
Dept. of Elect. and Elect. Engineering, Hosei University
JAPAN

Mining Legacy Data Bases

Martine Poulard-Collard and Aziz Barbar
I3S Laboratory, University of Nice-Sophia Antipolis
FRANCE

10:10 - 10:30 **Coffee Break**

10:30 - 11:30 ISE'02 Plenary Session III

Linguistic Geometry: New Technology for Defense Systems

Dr. Boris Stilman

University of Colorado at Denver & STILMAN
Advanced Strategies, USA

Session Chair: Dr. Robert Ewing, AFRL, USA

Location: Horton E

11:30 - 12:15 **Session 7 (S7): Communication Networks, Management,
and Modeling**

Session Chair: Dr. James F. Smith III, Naval Research Lab, USA

Location: Horton E

QoS Resource Management Using e-GSMP

S. Hariri, W. Wang, V. Radhakrishnan, Kartik Dev.A.J., S.
Saha, S. Oh, K. H. Lee, and G. Y. Choi
Internet Technology Laboratory
University of Arizona, USA

Heuristics for the Design of Bi-Connected Telecommunication Networks

Miguel Rios, Vladimir Marianov, Andres Luco
Department of Electrical Engineering
Universidad Catolica De Chile, CHILE

12:15 - 1:30 **SCSC'02 Conference Luncheon**

Title:

Luncheon Speaker: Dr. Richard Funk

The NASA Commercialization Center, USA

1:30 - 1:45 Break

1:45 - 3:00 ISE'02 Plenary Session II

Data Integration: The Need, The Challenges, and The Approaches

Dr. Yannis Papakonstantinou

University of California at San Diego, La Jolla,
California, USA

Session Chair: Dr. Robert Ewing, AFRL, USA

Location: Horton E

3:00 - 3:30 **Coffee Break**

3:30 - 5:30 **Tutorial 6 (T6):**

Database Reverse Engineering

Dr. Martine Collard

University of Nice, Sophia-Antipolis, France

Session Chair: Dr. K. Thirunarayan, Wright State Univ., USA

Location: Horton E

5:30 - 6:15

Demo Session 1 (D1):

Web Based Geo-Spatial Collaboration

Dr. Carl Suttle, Joint CEO and co-founder
GeoViz.com, Inc., Whittier, California, USA

Session Chair: Dr. Robert Erbacher, SUNY-Albany, USA

Location: Horton E

Thursday, July 18, 2002

8:00 AM - 5:00 PM **Conference Registration**

8:00 AM - 8:30 AM **Informal Meet & Greet - Coffee / Pastries**

8:30 - 9:20 **Session 8 (S8): Information Systems Reuse and Integration**

Session Chair: Dr. Takao Miura, Hosei University, Japan

Location: Horton E

A Component Model to Build A Distributed Software Architecture

Philippe Aniorde, and Frédérick Seyler

Département Informatique, LIUPPA, IUT de Bayonne

FRANCE

Integrating Process Modeling and Simulation Through Reusable Models in XML

Ana I Martinez-Garcia, and Roberto Mendez-Olague

Centro de Investigacion Cientifica y de Educacion Superior

de Ensenada, MEXICO

9:20 - 10:10 **Session 9 (S9): Information Systems Software Development and Environments**

Session Chair: Dr. Martine Collard, University of Nice, France

Location: Horton E

A Component-Based Event-Driven Interactive Visualization Software Architecture

Robert F. Erbacher

Department of Computer Science, University at Albany – SUNY

USA

Simulating the System Test Phase of the Software Development Life Cycle

J. S. Collofello and R. C. Patrao

Department of Computer Science and Engineering

Arizona State University, USA

10:10 - 10:30 **Coffee Break**

10:30 - 11:20 **Session 10 (S10): e-Learning and Tutoring Systems**
Session Chair: Dr. John M. Gleason, Creighton University, USA

Location: Horton E

KASER: A Knowledge Discovery Process for Tutoring First Principles of Laser Physics

Stuart H. Rubin and Robert J. Rush, Jr.
Space and Naval Warfare Systems Center, San Diego, CA
USA

Adaptive Software for the Development of Intelligent Tutoring System for Training Applications

Jose Tavira-Mondragon, Guillermo Romero-Juarez, Juan Cordero-Cruz, Rogelio Martinez-Ramirez, and Iris Romero-Mena
Instituto de Investigaciones Electricas, Mor.
MEXICO

11:20 - 12:35 **Session 11 (S11): Information Fusion and Exchange**
Session Chair: Dr. Stuart H. Rubin, SPAWAR, San Diego, USA

Location: Horton E

A Data Change Propagation System for Enterprise Application Integration

Carmen Constantinescu, Uwe Heinkel, Holger Meinecke
Institute for Parallel and Distributed High-Performance Systems
University of Stuttgart, GERMANY

An Assessment of the Digital-Economy-Friendliness of the Fifty Largest Consolidated Metropolitan Statistical Areas: A Data Envelopment Analysis

John M. Gleason and Darold T. Barnum
Department of Information Systems & Technology
Creighton University, USA

Reading Excel Files on Non-Windows Platforms

Gongzhu Hu and Heng Zhu
Department of Computer Science, Central Michigan University, USA

12:35 - 1:45 **Lunch (On Your Own)**

1:45 - 3:00 **Session 12 (S12): Process Management, Modeling, and Analysis**
Session Chair: Dr. Carmen Constantinescu, Univ. of Stuttgart, Germany

Location: Horton E

Documentation Maintenance DFD by Means of UML

Masataro Shiroyiwa, Hidenobu Tokuda, Takao Miura
Dept.of Elect. and Elect. Engineering, Hosei University, JAPAN

Design of a Business Process Analyzer for Business Process Management

Li-jie Jin, Fabio Casati, and Aad van Moorsel
Hewlett-Packard Labs, Palo Alto, CA, USA

Toward Flexibility of Workflow Management Systems Based on Task Requirement Classification

Angel E. Gonzalez, Waleed W. Smari, and Narayan Debnath
Department of Electrical and Computer Engineering,
University of Dayton, USA

3:00 - 3:30 **Coffee Break**

3:30 - 4:20 **Session 13 (S13): User-Centric Web Computing and Services**
Session Chair: TBA

Location: Horton E

Agent-Based Approach for User-Centric Computing Environment

Seongkee Lee and Taiyun Kim
Department of Computer Science
Korean University, KOREA

Implementation of Mileage Management System using Java Card

Jang-Mi Baek, Byung-Mo Kang, and In-Sik Hong
Information Technology Engineering Division
Soonchunhyang University, KOREA

4:20 - 4:50 **Demo Session 2 (D2):**
TBA

Session Chair: TBA

Location: Horton E

4:50 - 5:00 **Conference Closing Remarks**

ISE 2002 Conference General Chairs

Location: Horton E