

**The 2003 International Conference on
Information Systems and Engineering**

ISE 2003

CONFERENCE PROGRAM

July 20 - 24, 2003

**Wyndham Hotel
Montreal, Quebec, Canada**

Sunday, July 20, 2003

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

10:00 - 10:05 **Welcome Remarks**

Conference General Chair - Mr. John A. Graniero

Location: Picardie B Meeting Room

10:05 - 12:05 **Tutorial 1 (T1):**

*The Promise of Data Warehousing: Remember Your Map!
(Formulating Business Rules)*

Ms. Alison Torres

Teradata (NCR), Middlesex, New Jersey, USA

Session Chair: Mr. Daniel Frauchiger

Location: Picardie B Meeting Room

12:05 - 1:00 **Lunch (On Your Own)**

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

*Teradata Architecture and Differences: The New Generation
of Data Warehousing*

Ms. Alison Torres

Teradata (NCR), Middlesex, New Jersey, USA

Session Chair: Dr. Sylvain Delisle

Location: Picardie B Meeting Room

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

3:30 - 4:30 **Tutorial 3 (T3):**

Data Quality from a Business Perspective

Ms. Alison Torres

Teradata (NCR), Middlesex, New Jersey, USA

Session Chair: Dr. Z. Maamar

Location: Picardie B Meeting Room

4:30 - 6:00 **Tutorial 4 (T4):**

***Process Model: Distance Education Course – From Planning
to Evaluating e-Learning Courses***

Dipl. Ing. Dr. Susanne Loidl

Johannes Kepler University, Austria

Session Chair: Mr. Joonsuk Yu

Location: Picardie B Meeting Room

6:00 - 7:30

Welcome Reception

Location: TBA

Monday, July 21, 2003

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

7:00 AM - 8:30 AM **Informal Meet & Greet - Coffee / Pastries**

8:30 - 9:00 **SSiMC Welcome and Opening Remarks**
SSiMC 2003 General Chairs

Location: Meeting Room

9:00 - 10:00 **SSiMC 2003 Keynote Speech**

The Challenge of Building the Joint Simulation System

Ms. Laura Knight, Senior Executive Service
The US Department of Navy, USA

Session Chair: **TBA**

Location: Meeting Room

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

10:30 - 12:00 **ISE'03 Keynote Speech I**

Integration of Sensory and Language Data

Dr. Leonid I. Perlovsky
The Air Force Research Laboratory, Massachusetts, USA

Session Chair: Dr. Nordine Melab

Location: L'Amphitheater Meeting Room

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

1:00 - 3:05 **Session 1 (S1): Agent-Based Systems and Designs**

Session Chair: Dr. Gongzhu Hu

Location: L'Amphitheater Meeting Room

*Inter-Domain Diffserv Dynamic Provisioning and Interconnection Peering
Study using Bandwidth Management Point -- A Simulation Evaluation*

Junseok Hwang and Rajesh Revuru
Syracuse University, NY, USA

Emotion-based Control Mechanisms for Agent Systems
Charles Hannon
Texas Christian University, TX, USA

Implementation of a Multi-agent System within a Diffserv Nnetwork to Improve its Performance
Nada Meskaoui, Dominique Gaiti and Karim Kabalan
American University of Beirut, Lebanon

A New General, Flexible and Java-Based Software Development Tool for Multiagent Systems
Tony Garneau and Sylvain Delisle
Université du Québec à Trois-Rivières, Québec, Canada

The Self-Discipline Guarantee Architecture in Distributed System Integration
Xu Jin and Kinji Mori
Tokyo Institute of Technology, Tokyo, Japan

3:05 - 3:30 **Coffee Break**

3:30 - 3:55 **Session 1 (S1): Agent-Based Systems and Designs (Cont.)**
Session Chair: Dr. Gongzhu Hu

Location: L'Amphitheater Meeting Room

Aeronautical Mobile Data Management Using Agent Technology
Wathiq Mansoor and Zakaria Maamar
Zayed University, Dubai, United Arab Emirates

3:55 - 5:35 **Session 2 (S2): IS Reliability, Fault Tolerance, Security and Authentication**

Session Chair: Dr. Charles Hannon

Location: L'Amphitheater Meeting Room

Policy-based managed and Integrated Security Router (PISER)
Jong-Gook Ko, Jeong-Nyeo Kim, Jong-Su Jang, Sung-Won Sohn
Electronics & Telecommunications Research Institute, Taejeon, Korea

The Implementation of Trusted Channel between Secure Operating Systems
Joonsuk Yu, Jaedeok Lim, Jaehoon Nah, Taekyong Nam, and S. Sohn
Electronics & Telecommunications Research Institute, Daejeon, Korea

Multi-layer Watermarking in Closed Information Systems
Mariofanna Milanova, Charles Ford, Roumen Kountchev, Stuart Rubin,
and Roumiana Kountcheva
University of Arkansas, AR, USA

Global Approach for Fraud Management Architecture in Telco
Oleg Golobrodsky, Guy Zamir
ECTel Ltd., Petach Tikva, Israel

6:00 - 7:30 **Exhibit Welcome Reception**
Location: TBA

Tuesday, July 22, 2003

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

7:00 AM - 8:30 AM **Informal Meet & Greet - Coffee / Pastries**

8:30 - 9:20 **Session 3 (S3): Web Services and Service-Based Approaches**

Session Chair: Dr. K. Thirunarayan

Location: Argenteuil Meeting Room

Colored Petri Net Modeling of Web Services in a Hybrid 'J2EE-Software Agent' System

Margaret Lyell and David Norris
The MITRE Corporation, VA, USA

YASE: A Hyper Textual Search Engine for Individual Web Sites

Gongzhu Hu and Amrut P. Borgaonkar
Central Michigan University, MI, USA

9:20 - 10:10 **Session 4 (S4): Mobile and Wireless Information Systems**

Session Chair: Dr. Junseok Hwang

Location: Argenteuil Meeting Room

Supporting Disconnected Workflow in PDA Devices

Pedro Arroyo-Sandoval, Ana I. Martinez-Garcia and Cristina Ramirez-Fernandez
CICESE, Ensenada, B.C., Mexico

Towards an Environment of Mobile Services: Architecture and Security

Zakaria Maamar, Hamdi Yahyaoui, Wathiq Mansoor, and Arif Bhati
Zayed University, Dubai, United Arab Emirates

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

10:30 - 12:00 ISE'03 Keynote Speech II

Computation and Information: Two Sides of the Same Coin

Dr. J. Michael Dunn, Dean

School of Informatics, Indiana University, IN, USA

Session Chair: Dr. John A. Hamilton

Location: Argenteuil Meeting Room

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

1:00 - 2:15 ISE'03 Keynote Speech III

Multiagent Computing for Complex Applications

Dr. Brahim Chaib-draa

Université Laval, Québec, Canada

Session Chair: Dr. Takao Miura

Location: Argenteuil Meeting Room

2:15 - 3:05 **Session 5 (S5): Integrated Information Environments and Applications**

Session Chair: Dr. A. Boulmakoul

Location: Argenteuil Meeting Room

Parallelizing Probability based Protein Sequence Clustering Using Intelligent Job Allocation Mechanism

Vijay Ganesh H., Bhuvaneswari R, Madhusudhanan C , and Anusuya V
State University of New York at Buffalo, NY, USA

Non-for-Profit and Academic Information Systems: A Case Study in Information System Reengineering

Youry Khmelevsky
The University of the South Pacific, Suva, Fiji

3:05 - 3:30 **Coffee Break**

3:30 - 4:45 **Session 6 (S6): Architectures for Information Interoperability**

Session Chair: TBA

Location: Argenteuil Meeting Room

A Practical Application of Enterprise Architecture for Interoperability

John A. Hamilton, Jr., and Glen A. Catania
Auburn University, AL, USA

Two Approaches for Ontologies Building: From-scratch and From Existing Data Sources

Djamal Benslimane, Ahmed Arara, Kokou Yetongnon, Faiez Gargouri,
and Hanene Ben Abdallah
LIRIS-Université Claude Bernard, Villeurbanne, France

Using an Event-based Middleware in a Distributed e-Commerce Infrastructure

E. Di Nitto, and M. Pianciamore
CEFRIEL - Politecnico di Milano, Milano, Italy

4:45 - 6:00 **Session 7 (S7): Object-based and Object-Oriented Modeling and Simulation**

Session Chair: Dr. M. Milanova

Location: Argenteuil Meeting Room

Defining DFD Meta Model Using UML

Masataro Shiroiwa, Takao Miura, Isamu Shioya
Hosei University, Tokyo, Japan

Multimodal Transportation Networks: Object Modeling and the K-Multimodal Shortest Path

Hicham Mouncif and Azedine Boulmakoul
FSTM, Mohammedia, Morocco

Object Oriented Approach and Java-based Distributed Simulation for Container Terminal Operational Management

M. Rida and A. Boulmakoul
FSTM, Mohammedia, Morocco

6:00 - **SSiMC'03 Social**

Location: TBA

Wednesday, July 23, 2003

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

7:00 AM - 8:30 AM **Informal Meet & Greet - Coffee / Pastries**

8:30 - 10:10 **Session 8 (S8): e-Learning, ISE Programs, and Innovative Teaching Strategies and Tools**

Session Chair: Dr. W. Mansoor

Location: Argenteuil Meeting Room

Genesis of the New Information Systems Engineering Program at the United States Military Academy at West Point

Gregory S. Parnell, Jean R. S. Blair, Michael D. Matthews,
Curtis A. Carver Jr., Clark K. Ray
United States Military Academy, NY, USA

Teaching Software Engineering to Undergraduates

Jacob Sukhodolsky
Saint Louis University, MO, USA

Toward a Comprehensive Supplement for Language Courses

Krishnaprasad Thirunarayan and Stephen P. Carl
Wright State University, OH, USA

Information Systems and Engineering Education: Learning by Doing

Gerardo Silva Chandía
University of Santiago, Santiago, Chile

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

10:30 - 12:00 ISE'03 Keynote Speech IV

Design and Test of Network-Centric Systems

Dr. Ann Miller, Distinguished Professor
University of Missouri at Rolla, MO, USA

Session Chair: Dr. Clark K. Ray

Location: Argenteuil Meeting Room

4:45 - 5:45

ISE'03 Panel Session:

***The State of Information Systems and Engineering and the
Community's Immediate Challenges***

Session Moderator: Mr. John A. Graniero

Panelists:

Dr. Hans-Arno Jacobsen, University of Toronto

Dr. Ann Miller, University of Missouri at Rolla

Dr. Leonid I. Perlovsky, AFRL

Dr. Clark K. Ray, USMA

Location: Argenteuil Meeting Room

5:45 - 6:00

Conference Closing Remarks

ISE 2003 Conference General Chairs

Location: Argenteuil Meeting Room