HICSS-37 PAPER LISTINGS

Decision Technologies for Management
Chair: Daniel Dolk

DT1 THURSDAY
10:00-11:30 KOHALA 4

FORUM: Decision Support Systems Rediviva
Christer Carlsson, Peter Keen, David King, Ralph Sprague, and Jerry Wagner

1. The core idea of DSS - a personal view
2. Why this idea made sense and how it worked out
3. In 2004: the same core idea, but now made real with modern ICT; what works better? What is not as good as originally intended?
4. Decision support challenges for 2010 (3-5 real challenges)

DATA AND PROCESS MINING
Co-chairs: Selwyn Piramuthu and H. Michael Chung

Covers broad theory and application issues related to data mining, machine learning, knowledge acquisition and discovery, information retrieval, database, and inductive decision-making. Also features investigations into data and knowledge representation schemes such as Web, multimedia, and geographic data applied to science as well as management domains.

DT2 WEDNESDAY
1:00-2:30 KING’S 2

An Approach to Data Visualization and Interpretation for Sensor Networks (DTDMI02)
Fengxian Fan and Edoardo S. Biagioni

An Improved Search Technique for Optimal Winner Determination for Combinatorial Auctions (DTDMI03)
Merlin Nandy and Ambuj Mahanti

Flexible Support for Spatial Decision-Making (DTDMI04)
Shen Gao, John Paynter, and David Sundaram

DT3 WEDNESDAY
3:00-4:30 KING’S 2

Forecasting Intraday Stock Price Trends with Text Mining Techniques (DTDMI06)
Marc-André Mittermayer

CBW: An Efficient Algorithm for Frequent Itemset Mining (DTDMI07)
Ja-Hwung Su and Wen-Yang Lin

E-SERVICES
Co-chairs: Balasubramaniam Ramesh and Kannan Mohan

This minitrack covers a wide range of concepts, models, and methods for creating e-services including theory-building or framework construction, innovative applications and case studies of e-services in the context of e-business applications and related infrastructure or methods.

DT4 TUESDAY
2:00-3:30 KING’S 1

Sales-Supporting E-services (DTESS01)
Elisabeth van de Kar, Paulien Herder, Arjan Snijders, and Wim Dik

From Conflict of Interest to Separation of Duties in WS-Policy for Web Services Matchmaking Process (DTESS02)
Patrick C. K. Hung

Increasing the Computing Capability and its Influence on Service Provision (DTESS03)
Adekunle Okunoye

DT5 TUESDAY
4:00-5:30 KING’S 1

The GRITIKA Ontology for Modeling e-Service Applications: Formal Specification and Illustration (DTESS04)
Hong Zhang, Rajiv Kishore, Raj Sharman, and Ram Ramesh

Providing an E-Learning Platform in a University Context – Balancing the Organizational Frame for Application Service Providing (DTESS05)
Wolf-Gideon Bleek and Iver Jackewitz

Alert-driven E-Service Management (DTESS06)
INTELLIGENT DECISION SUPPORT FOR E-LOGISTICS AND SUPPLY CHAIN MANAGEMENT
Co-chairs: Stefan Voss and Hans-Jeurgen Sebastian

Features real-world applications and software solutions that aid in solving decision problems in e-logistics and supply chain management. Methods include simulation, optimization, heuristics, agent technologies, and descriptive models.

DT6 WEDNESDAY
1:00-2:30 KOHALA 4

Intelligent Agent Based Framework for Warehouse Control (DTESC01)
Byung-In Kim, Sunderesh S. Heragu, Robert J. Graves, and Art St. Onge

Dynamic Business Process Formation by Integrating Simulated and Physical Agent Systems (DTESC02)
Fu-ren Lin, Shyh-ming Lin, Po-win Hsueh

☆ Supply Chain Coordination by Means of Automated Negotiations (DTESC04)
Andreas Fink

DT7 WEDNESDAY
3:00-4:30 KOHALA 4

Information Sharing in a Supply Chain with Dynamic Consumer Demand Pattern (DTESC05)
Li Yan and Tan Gek Woo

Process Management in Supply Chains- A New Petri Net Based Approach (DTESC07)
Marco von Mevius and Richard Pibernik

A Petri Net Representation for Dynamic Programming Problems in Management Applications (DTESC08)
Holger Mauch

Discussion: Future Issues Around e-Logistics

INTELLIGENT SYSTEMS AND SOFT COMPUTING
Co-chairs: Christer Carlsson and Pirkko Walden

Focuses on the theory and applications in knowledge-based systems, expert systems, software agents, multiple criteria optimization and support systems, genetic algorithms, artificial neural nets and self-organizing maps, active DSS, Smart MS Office & Windows design.

DT8 WEDNESDAY
8:00-9:30 KOHALA 4

☆ Knowledge-Based Exception Management for Securities Transactions (DTISS01)
Minhong Wang, Huaqing Wang, Kwok Kit Wan and Dongming Xu

Aircraft and Gate Scheduling Optimization at Airports (DTISS02)
H Ding, A.Lim, B. Rodrigues, Y. Zhu

Models of Emerging Contexts in Risky and Complex Decision Settings (DTISS03)
C. Gustav Lundberg

MOBILE COMMERCE: CORE BUSINESS TECHNOLOGY AND INTELLIGENT SUPPORT
Co-chairs: Christer Carlsson, Pirkko Walden, and Jari Veijalainen

Focuses on the theory and applications of m-commerce enabling technologies and intelligent support systems.

DT10 THURSDAY
1:00-2:30 KONA 3

Dealing with Uncertainties in Building Scenarios for the Development of Mobile Services (DTMCC01)
Elisabeth van de Kar and Patrick van der Duin

The Future of Mobile Technology: Findings from a European Delphi Study (DTMCC02)
Hans Lehmann, Jürgen Kuhn, and Franz Lehner

☆ Wireless Support for Mobile Distributed Work: A Taxonomy and Examples (DTMCC03)
Stuart J. Barnes

DT11 THURSDAY
3:00-4:30 KONA 3

A Framework for Selecting a Location Based Service (LBS) Strategy and Service Portfolio (DTMCC04)
David Tilson, Kalle Lyytinen, and Ryan Baxter

Assessing the Business Impact of Location Based Services (DTMCC05)
Baharat Rao and Louis Minakakis

Mobile Shopping Site Selection: The Consumers’ Viewpoint (DTMCC06)
Jen-Her Wu, Yu-Min Wang, and Wei-Chun Tai
MOBILE COMPUTING AND PUBLIC SERVICES IN DELICATE OR EMERGENCY SITUATIONS
Co-chairs: Helena Karsten and Carsten Sørensen

Public service workers in the field have computing requirements beyond those in many other mobile professions. These papers discuss experiences with and requirements for mobile computing in public service.

DT12 TUESDAY
4:00-5:30 KOHALA 1

Experiences from an Implementation Project – Time Management and Control in Home Care (DTMCP01)
Riikka Vuokko

Pervasive Computing in Emergency Situations (DTMCP02)
Vassilis Kostakos and Eamonn O’Neill

On Mobility and Context of Work: Exploring Mobile Police Work (DTMCP03)
Daniele Pica, Carsten Sørensen, and David Allen

MODELING KNOWLEDGE-INTENSIVE PROCESSES
Co-chairs: Balasubramaniam Ramesh, Kishore Sengupta, and Kannan Mohan

These papers investigate multiple aspects of modeling and use of process knowledge, e.g. the capturing and retaining of implicit knowledge or devising organizational incentives for designers. They investigate wide ranging domains from media choice representing process knowledge, eXtreme programming to support large scale development and intelligent agents, and present modeling concepts, methods, and tools.

DT13 TUESDAY
10:00-11:30 KONA 4

Media Choice for Complex and Knowledge-Intensive Processes (DTMKI01)
Roman M. Wong and Cretson Dalmadge

Agent Action: Business Cases with Individualised Information Services in a Business Intelligence Context (DTMKI02)
Fredric Landqvist and Kalevi Pessi

How Extreme does Extreme Programming Have to be? Adapting XP Practices to Large-Scale Projects (DTMKI03)
Lan Cao, Kannan Mohan, Peng Xu, and Balasubramaniam Ramesh

MODELING NONLINEAR NATURAL AND HUMAN SYSTEMS
Chair: Hans J (Jochen) Scholl

This minitrack provides a forum for the latest ideas and results in the areas of system-dynamics-based and agent-based simulation approaches to modeling nonlinear complex systems.

DT14 TUESDAY
2:00-3:30 QUEEN’S 4

Optimal Decision Making in a Dynamic Model of Community Health (DTMNN01)
Jack Homer and Bobby Milstein

Internet Diffusion in India and China – Comparison Based on Feedback Loop Dominance (DTMNN02)
Amitava Dutta and Rahul Roy

Knowledge and the Development of Interpersonal Trust: A Dynamic Model (DTMNN03)
Luis F. Luna-Reyes, Anthony M. Cresswell, and George P. Richardson

DT15 TUESDAY
4:00-5:30 QUEEN’S 4

A Comparison of System Dynamics and Agent-Based Simulation Applied to the Study of Cellular Receptor Dynamics (DTMNN05)
Wayne W. Wakeland, Edward J. Gallagher, Louis Macovsky, and C. Athena Aktipis

Action Research and System Dynamics: Can They Benefit from Each Other? (DTMNN06)
Hans J (Jochen) Scholl

VEAM: VIRTUAL ENVIRONMENTS FOR ANALYTICAL MODELING
Co-Chairs: Daniel R. Dolk and Hans-Jürgen Sebastian

The three main threads in these presentations are distributed decision technologies, knowledge science and management, and collaborative modeling as applied to real world problems.

DT16 THURSDAY
8:00-9:30 QUEEN’S 5

Media-Assisted Product and Process Traceability in Supply Chain Engineering (DTVEA01)
Matthias Jarke, Michalis Miatidis, Marcus Schlüter and Sebastian Brandt
Application of Genetic Algorithms for the Design of Large-Scale Reverse Logistic Networks in Europe's Automotive Industry (DTVEA02)
*Ralf Schleiffer, Jens Wollenweber, Hans-Jürgen Sebastian, et al*

A Model for Multi-Stage Production Planning with Load Dependent Lead Times (DTVEA03)
*David L. Woodruff and Stefan Voß*

Multicriteria Analysis in Telecommunications (DTVEA04)
*Janusz Granat and Andrzej P. Wierzbicki*

**DT17 THURSDAY**
**10:00-11:30 QUEEN’S 5**

Network Awareness for Wireless Peer-to-Peer Collaborative Environments (DTVEA06)
*Alex Bordetsky, Susan G. Hutchins, William G. Kemple, and Eugene Bourakov*

Studies on Rule-Learning in Gaming Situations (DTVEA08)
*Yuji Shinoda and Yoshiteru Nakamori*

Agent-Based Modeling for Competing Firms: From Balanced-Scorecards to Multi-Objective Strategies (DTVEA09)
*Takao Terano and Kenichi Naitoh*