Association for Information Systems

26th International Conference on Information Systems

ICIS 2005

"Forever New Frontiers"

December 11 – 14, 2005
Las Vegas, Nevada, USA

Volume 1 of 2

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571
www.proceedings.com

ISBN: 978-1-60423-523-4

Some format issues inherent in the e-media version may also appear in this print version.

Association for Information Systems

26th International Conference on Information Systems
2005

TABLE OF CONTENTS

VOLUME 1

BREAKTHROUGH IDEAS IN INFORMATION TECHNOLOGY

Understanding the Role and Transformation of the Information Technology Function in Organizations 1
Manon G. Guillemette, Guy Pare

Computer Art: A New Agenda for Information Systems Research 11
Briony J. Oates

IT Service Climate: A Definition and Research Model 22
Ronnie Q. Jia, Blaize Horner Reich

Profit Maximization with Data Management Systems 27
Adir Even, G. Shankaranarayanan, Paul D. Berger

The Application of the Viable Systems Model to Information Technology Governance 42
Joe Peppard

Software Versioning and Quality Degradation: An Exploratory Study of the Evidence 56
Anindya Ghose, Arun Sundararajan

GLOBAL INFORMATION TECHNOLOGY MANAGEMENT

Autonomy, Procedural Justice, and Information Systems Planning Effectiveness in Multinational Firms 68
Dinesh A. Mirchandani, Albert L. Lederer

Antecedents of Onshore and Offshore Business Process Outsourcing 81
Jonathan Whitaker, Sunil Mithas, M. S.Krishnan

Impact of Information Technology on Agricultural Commodity Auctions in India 93
Rajiv D. Banker, Sabyasachi Mitra

Of Governance and the BPO Paradox: The Impact of Information Capabilities on Service Satisfaction 104
Deepa Mani, Anitesh Barua, Andrew B. Whinston

ALTERNATIVE APPROACHES TO INFORMATION SYSTEMS DEVELOPMENT

n the Age of the Humanchine 118
Chris Atkinson, Laurence Brooks

A Human Capital Perspective of Organizational Intention to Adopt Open Source Software 131
Yan Li, Chuan-Hoo Tan, Hock-Hai Teo, Alex Siow

A Review of Component-Based Software Development 144
Jason H. Sharp, Sherry D. Ryan

Not All Innovations Are Created Equal: A Survey of Internet Computing as Disruptive Innovation in Systems Development Organizations 155
Jessica Luo Carlo, Kalle Lyytinen, Gregory M. Rose

Intelligent Agents as a Modeling paradigm 159
Kafui Monu, Yari Wand, Carson Woo

Coordination of Free/Libre Open Source Software Development 172
Kevin Crowston, Kangning Wei, Qing Li, U. Yeliz Eseryel, James Howison

KNOWLEDGE MANAGEMENT

Knowledge Management as an Autonomous Venturing Process: A Process Model of Establishing Knowledge Management 185
Annemette Kjaergaard, Karlheinz Kautz

Mobilizing Informational Social Capital in Cyber Space: Online Social Network Structural Properties and Knowledge Sharing 197
Siyuan Huang, Gerardine DeSanctis

Knowledge Acquisition Through Computer-Mediated Discussions: Potential of Semantic Network Representations and Effect of Conceptual Facilitation Restrictiveness 210
Mohamed Khalifa, Vanessa Liu

Casting the Net: A Multimodal Network Perspective on Knowledge Management 222
Gerald C. Kane, Maryam Alavi

A Structurationist Review of Knowledge Management Theories 236
Greg Timbrell, Patrick Delaney, Taizan Chan, Aaron Yue, Guy Gable

Dual Networks of Knowledge Flows: An Empirical Test of Complementarity in the Prepackaged Software Industry 249
David Dreyfus, Bala Iyer, Chi-Hyon Lee, N. Venkatraman

Developing Individuals' Transactive Memories of Their Ego-Centric Networks to Mitigate Risks of Knowledge Sharing: The Case of Professionals Protecting CyberSecurity 261
Sirkka L. Jarvenpaa, Ann Majchrzak

Preferential Attachment and Mutuality in Electronic Knowledge Networks 274
Steven L. Johnson, Samer Faraj

PHILOSOPHY AND RESEARCH METHODS IN INFORMATION SYSTEMS

Information Systems Development as Inquiring Systems: Lessons from Philosophy, Theory, and Practice 287
Andrea Carugati

Play as the Way Out of the Newspeak–Tower of Babel Dilemma in Data Modeling 301
Frederico Fonseca, James Martin

Being Proactive: Where Action Research Meets Design Research 311
Robert Cole, Sandeep Purao, Matti Rossi, Maung K. Sein

The Engineering of Software: Views from Technology Theory 323
Niels Jørgensen

SECURITY AND ASSURANCE

An Extreme Value Approach to Information Technology Security Investment 333
Jingguo Wang, Aby Chaudhury, H. Raghav Rao

An Economic Analysis of the Software Market with a Risk-Sharing Contract 346
Byung Cho Kim, Pei-yu Chen, Tridas Mukhopadhyay

A Protection Motivation Theory Approach to Home Wireless Security 352
I. M. Y. Woon, G. W. Tan, R. T. Low

I Am Fine but You Are Not: Optimistic Bias and Illusion of Control on Information Security 366
Hyeun-Suk Rhee, Young U. Ryu, Cheong-Tag Kim

SOCIAL, BEHAVIORAL, AND ORGANIZATIONAL ASPECTS OF INFORMATION SYSTEMS

Before, During, and After Face-to-Face Meetings: The Lifecycle of Social Ties in Globally Distributed Teams 380
Ilan Oshri, Julia Kotlarsky, Leslie Willcocks

The Linkage Between Reporting Quality and Performance in Information Systems Projects 393
Charalambos L. Iacovou, H. Jeff Smith, Ronald L. Thompson

Privacy Implications of Technology Innovation Processes 407
Karl Prince and Michael Barrett

Making the Links: Domestication of ICTs in the Global Knowledge Economy 418
Helen Richardson

Making Software Work: Producing Social Order via Problem Solving in a Troubled ERP Implementation 429
Erica L. Wagner, Sue Newell

Information Technology and Organizational Learning: An Investigation of Exploitation and Exploration Processes 441
Gerald C. Kane, Maryam Alavi

The Role of Habit in Information Systems Continuance: Examining the Evolving Relationship Between Intention and Usage 453
Christy M. K. Cheung, Moez Limayem

How Technology Shapes the Actor–Network of Convergence Services: A Case of Mobile Banking 465
Sangjo Oh, Heejin Lee

New Frontiers in the Theorization of ICT-Mediated Interaction: Exploring the Implications of a Situated Learning Epistemology 476
Séamas Kelly

VOLUME 2

Enacting E-Relations with Ancient Chinese Military Stratagem 487
Susanna Xin Xu, Joe Nandhakumar, Christine Harland

Does ERP Provide a Cross-Functional View of the Firm? Challenging Conventional Wisdom for SMEs and Large French Firms 500
Frantz Rowe, Redouane El Amrani, Marc Bidan, Rolande Marciniak, Bénédicte Geffroy-Maronnat

Interplay of Culture, Learning, Politics, and Institutions: A Structurational Framework of Information Technology-Induced Organizational Change 514
Chee Wei Phang, Atreyi Kankanhalli,

Understanding Digital Inequality 525
JJ Po-An Hseih, Mark Keil, Arun Rai

Being There Versus Being Wired: The Effect of Colocation on Social Capital in Distributed Teams 540
Priscilla Arling, Mani Subramani

VALUING IT OPPORTUNITIES

Negotiation of Investment Shares in Interorganizational Supply Chains: A Game-Theoretic Approach 553
Franz Schober

Strategic and Operational Benefits of IOS-Enabled Interorganizational Integration 564
Yuandong Yi, Christina Soh, Lihua Huang

The Role of Information Technology Business Alignment In Value Creation: A Multiple Case Study Among German Banks 577
Jochen Franke, Heinz-Theo Wagner, Tim Weitzel

Assessing Customers' Value of Mobile Financial Information Services: Empirical-Based Measures 591
Jan Muntermann and Lars Janssen

Changing Inside, Watching Outside: Understanding Business Model Adaptations to Guide Information Technology Decisions 603
Harminder Singh,Vijay Sethi, Vikram Sethi

Economic Analysis of the Supplier–Reseller Symbiotic Competition in an Online Distribution Business 618
Ruhai Wu, Ling Xue, Andrew B. Whinston

Understanding Information Technology Complementarities Using an Augmented Endogenous Growth Framework 631
Simon K. Poon, Joseph G. Davis, Byounggu Choi

Optimal Rebating Strategies in Peer-to-Peer Content Distribution 644
Peng Han, Kartik Hosanagar, Yong Tan

Make-or-Buy in the Age of Open Source: A Transaction Cost Analysis 659
Martina E. Greiner, Dale L. Goodhue

WEB-BASED INFORMATION SYSTEMS AND APPLICATIONS

An Investigation of Cognitive Antecedents to Satisfaction Using Web-Based Decision Support Systems 681
Jaeki Song, Donald Jones, Naveen Gudigantala

Information Technology Mediated Customer Service: A Functional Perspective 695
Ronald T. Cenfetelli, Izak Benbasat, Sameh Al-Natour

Cognition-Based Versus Affect-Based Trust Determinants in E-Commerce: A Cross-Cultural Comparison Study 710
Dan J. Kim

An Exploratory Study of Before-Interaction Trust Transference in Multichannel Retailers 723
Huei-Huang Kuan, Gee-Woo Bock

Price Cycles in Online Advertising Auctions 737
Xiaoquan (Michael) Zhang, Juan Feng

An Empirical Investigation of the Auction Buyer's Choice to Buy Out or Bid: Cry of Regret or Laugh of Satisfaction? 750
Chuan-Hoo Tan, Xue Yang, Hock-Hai Teo, Grace Lin

Virtual Interaction for Effective E-Learning 763
Jinwei Cao, Ming Lin, Janna M. Crews, Judee K. Burgoon, Jay F. Nunamaker, Jr.

Content and Design Metrics for Web Sites: Combining Qualitative and Quantitative Results 777
Horst Treiblmaier, Andreas Pinterits

Enhanced Reputation Scoring for Online Auctions 787
Bonnie R. Montano, Dawn C. Porter, Ross A. Malaga, J. Keith Ord

Is Online Product Information Availability Driven by Quality or Differentiation? 800
Panos M. Markopoulos, Ravi Aron, Lyle H. Ungar

Adverse Selection and Reputation Systems in Online Auctions: Evidence from eBay Motors 812
James R. Wolf, Waleed A. Muhanna

An Empirical Investigation of Herding on the Internet: The Case of Software Downloading 824
Wenjing Duan, Bin Gu, and Andrew B. Whinston

HUMAN-COMPUTER INTERACTION

An Empirical Study of Online Trust and Consumer Behavior: Cultural Orientation, Social Norms, and Personal Innovativeness in Information Technology 837
Yujong Hwang

The Effects of Real-Time Individual Performance Feedback and Goal Setting on Computer-Mediated Group Idea Generation 849
Jay JH. Jung, Christoph Schneider, Joseph S. Valacich

Predicting the Adoption of Location-Based Services: The Role of Trust and Perceived Privacy Risk 861
Heng Xu, Hock-Hai Teo, Bernard C. Y. Tan

Social Networks and Transactive Memory in Human–Computer Interaction 875
Klarissa T. Chang

User Profiles for Facilitating Conversations with Locked-In Users 887
Melody M. Moore, Veda C. Storey, Adriane B. Randolph

Using Protocol Analysis to Understand the Effects of Web Site Design on Consumer Purchase Behaviors 901
Gek Woo Tan, Ernest Bryan Lee

PANELS

Cultural Bias in Information Systems Research and Practice: Are You Coming from the Same Place I Am? 915
Roberto Evaristo, David J. Pauleen, Robert Davison, Soon Ang, Sherif Kamel, Macedonio Alanis

E-Mail Management: A Techno-Managerial Research Perspective 918
Ramesh Sharda, Nicolas Ducheneaut, J. Leon Zhao, Ashish Gupta, Ron Weber

Information Systems Research That Really Matters: Beyond the IS Rigor Versus Relevance Debate 920
Kevin C. Desouza, Omar A. El Sawy, Robert D. Galliers, Claudia Loebbecke, Richard T. Watson

Should Institutional Trust Matter in Information Systems Research? 923
Paul A. Pavlou, David Gefen, Izak Benbasat, Harrison McKnight, Katherine Stewart, Detmar W. Straub

Investigating the "Knowledge" in Knowledge Management: A Social Representations Perspective 927
Richard Boland, Jr., Elizabeth Davidson, Suzanne Pawlowski, Ulrike Schultze, Emmanuelle Vaast

Information Technology-Enabled Transformation: Research That Bridges the Functional Divide 930
Hank Lucas, Ritu Agarwal, Michael Barrett, Sirkka Jarvenpaa, Bruce Weber

How Shall We Manage Our Journals in the Future? A Discussion of Rick Watson's ICIS 2004 Proposals 933
Paul Gray, Kalle Lyytinen, Carol S. Saunders, Leslie P. Willcocks,Vladimir Zwass

Interactive Digital Entertainment: A New Direction for Information Systems Research 935
Andrew B. Whinston, Matti Hamalainen, Richard Garriott, De Liu, Xianjun Gent

SENIOR SCHOLAR PAPERS

Securing the Future of Information Systems as an Academic Discipline 938
Gordon B. Davis, Anne P. Massey, Niels Bjorn-Andersen

Information Technology and Organizational Contexts: Orienting Our Work Along Key Dimensions 950
Ananth Srinivasan, Salvatore March, Carol Saunders

Offshoring and its Implications for the Information Systems Discipline 961
Rudy Hirschheim, Claudia Loebbecke, Mike Newman, Josep Valor

ABSTRACTS

AUTHOR INDEX