The 11th ICIQ (ICIQ-06, MIT IQ) Conference Program

FRIDAY, November 10

| 5:30 - 6:30 PM | **ICIQ-06 REGISTRATION & RECEPTION, <u>MIT FACULTY CLUB</u>** | **E52** |
| | 50 Memorial Drive, MIT, Cambridge, MA 02139, USA | (6th Floor) |

SATURDAY, November 11

8:30 - 9:00 AM	**REGISTRATION AND CONTINENTAL BREAKFAST**	**E51-345**
9:00 - 9:20	**CHAIRS' WELCOME AND OPENING REMARKS**	**E51-345**

John Talburt, *University of Arkansas at Little Rock (UALR), USA*
Elizabeth Pierce, *UALR MSIQ Program Professor, USA*
Ning-Ning Wu, *UALR MSIQ Program Professor, USA*
Traci Campbell, *Acxiom Corporation, USA*

2006 (First) Best Paper Award
Committee: Leo Pipino (Chair), Yang Lee, Stuart Madnick, Diane Strong , Giri Kumar Tayi

ICIQ-07 Program Co-Chairs
Mary Ann Robbert, M. Lynne Markus, Barbara Klein, Robert O'Hare

ICIQ-08 Program Co-Chairs
Leo Pipino, John Slone, Pamela Neely

9:20 - 10:00	**Keynote: A Vision for IQ Education and Research at UALR** **Mary Good**, *Dean, Donaghey College of Information Science and Systems Engineering, UALR, USA*	**E51-345**
10:00 - 10:15	Coffee Break	
10:15 - 11:45	**Session 1A** INCORPORATING INFORMATION QUALITY INTO THE SYSTEM DEVELOPMENT METHODOLOGY **Chair**: Mary Ann Robbert, Bentley College & ICIQ-07 Program Chair	**E51-335**

Data Quality & Agile Methods: A BT Perspective
Neil Williams, *British Telecommunications, UK*
Wendy Ivins, *Cardiff University, UK*
Mikhaila Burgess, *Cardiff University, UK*

A Methodology for Information Quality Management in Self-Healing Web Services
Cinzia Cappiello, *Politecnico di Milano, Italy*
Barbara Pernici, *Politecnico di Milano, Italy*

Evolving a Comprehensive Measure for System Quality
Tor Guimaraes, *Tennessee Tech University, USA*
Curtis Armstrong, *Tennessee Tech University, USA*
Brian Jones, *Tennessee Tech University, USA*

10:15 - 11:45   Session 1B MEASURING INFORMATION QUALITY   **E51-325**
Chair: Robert O'Hare, Verizon & ICIQ-07 Program Co-Chair

An Improved Method for Automatically Determining Webpage Cohesiveness for Quality Information Retrieval from the World Wide Web
Surya B Yadav, *Texas Tech University, USA*
Jeremy Bellah, *Texas Tech University, USA*

Including an Information Quality Index in Assessing ICT Citizen Support Services
Yasuhiro Tanaka, *Waseda University, Japan*
Akihisa Kodate, *Tsuda College and Waseda University, Japan*
Daiji Hario, *Waseda University, Japan*
Timothy Bolt, *Waseda University, Japan*

Why I Created BDQS
Brigitte Laboisse, *Analyse Informatique des Données, France*

Panel 1 ENTERPRISE ARCHITECTURE DEPLOYMENT   **E51-315**
Moderator: Alan Alborn, *President of Alborn & Associates, USA*
Panelists:
Bryan Aucoin, *Director of National Intelligence, USA*
Beverly Hacker, *Department of Treasury, USA*
Yang Lee, *Northeastern University, USA*
Edwin Nassiff, *EIS, Lockheed Martin Corp., USA*

11:45 - 1:15 PM   **LUNCH & IQR JOURNAL UPDATE**   **E51-345**

Yang Lee, *Northeastern University (Editor-in-Chief), USA*
Stuart Madnick, *MIT (Editor-in-Chief), USA*
Elizabeth Pierce, *UALR (Managing Editor), USA*
Richard Wang, *MIT (Acting Publisher), USA*

Planned Special Issues and Guest Editors

✓ **Data Quality in Databases**
Felix Naumann, *GermanyHasso-Plattner-Institute, Potsdam, Germany*
Louiqa Raschid, *U. Of Maryland, College Park, USA*

✓ **Information Quality Research Frontiers**
Diane Strong, *W.P.I., USA*

✓ **Entity Resolution & Information Quality**
John Talburt, *University of Arkansas at Little Rock, USA*

✓ **Enterprise Architecture Deployment**
Richard Wang, *Massachusetts Institute of Technology, USA*
Giri Kumar Tayi, *University at Albany, SUNY, USA*

✓ **Knowledge Strategy & Information Quality**
Michael Zack, *Northeastern University, USA*
Yolande E. Chan, *Queen's University, Canada*

✓ **Social Aspects of Information Quality**
Eileen Trauth, *Penn. State University, College Park, USA*

1:15 - 2:30 PM   Session 2A **ENHANCING INFORMATION QUALITY IN LOGISTICS, SUPPLY CHAIN, AND E-COMMERCE SYSTEMS**   **E51-335**
Chair: Deborah Henderson, *DAMA Foundation President & CapGemini at General Motors Detroit*

Open Technical Dictionaries – A Breakthrough in Electronic Commerce Data Quality and the Transfer of Information
Emily Grantner, *Defense Logistics Information Service, DLA, USA*

Determining the Cost and Effectiveness of Enhancing Data in the U.S. Defense Logistics Agency Supply Chain
L. Robert Pokorny, *XSB, Inc., USA*

Information Quality Measurement: Considerations when Defining Measures Supporting MPC Decision Making
Mattias Gustavsson, *Chalmers University of Technology, Sweden*

1:15 - 2:30   Session 2B **ADVANCES IN ENTITY RESOLUTION AND INFORMATION QUALITY RESEARCH**   **E51-325**
Chair*: Edwin F. Nassiff & John P. Slone, *Lockheed Martin Corporation*

Significance Test for the Talburt-Wang Similarity Index
Ray R. Hashemi, *Armstrong Atlantic State University, USA*
John R. Talburt, *Acxiom Chair of Information Quality, UALR, USA*

An Information Theoretic Approach to Information Quality Metric
Ningning Wu, *University of Arkansas at Little Rock, USA*
Elizabeth Pierce, *University of Arkansas at Little Rock, USA*
John R. Talburt, *University of Arkansas at Little Rock, USA*

Research into Information Quality: A Study of the State of the Art in IQ and Its Consolidation

Luis Francisco Ramos Lima, *Universidade Federal do Rio Grande do Sul, Brazil*
Antonio Carlos Gastaud Maçada, *Universidade Federal do Rio Grande do Sul, Brazil*
Lilia Maria Vargas, *Universidade Federal do Rio Grande do Sul, Brazil*

1:15 - 2:30   Panel 2 **MILESTONES ALONG THE ROAD TO DATA QUALITY: AN UPDATE FROM THE FRONT LINES**   **E51-315**
Moderator: Pamela Neely, *Rochester Institute of Technology, USA*
Panelists:
Bruce N. Davidson, *Cedars-Sinai Health System* , USA
Alein T. Chun, *Cedars-Sinai Health System, USA*
Monica Jones, *The Environment Protection Agency (EPA), USA*

2:30 – 2:45   Coffee Break

2:45 - 4:15　　**Session 3A** INVESTIGATING INFORMATION QUALITY ISSUES　　　**E51-335**
WITHIN THE FINANCIAL ARENA
Chair: Peter Kaomea, *CIO, Sullivan & Cromwell, LLP*

Disinformation Methods of Financial Crime via Email
Panagiotis Petratos, *California State University, Stanislaus, USA*
Sofia Gleni, *University of Bedfordshire, UK*

Social Information Quality Management
Miguel Feldens, *GoDigital, Brazil*
João Lisboa, *GoDigital, Brazil*
Nazaré Bretas, *Ministry of Planning, Budget, and Management of Brazil*
Reinaldo Barroso, *National Institute of Social Security of Brazil*
Suelia Pereira, *National Institute of Social Security of Brazil*
Eduardo Basso, *Ministry of Social Security of Brazil*

Monitoring Data Quality for Very High Volume Transaction Systems
Joseph Bugajski, *Visa Internationa, USA*
Robert L. Grossman, *Open Data Group, USA*
Eric Sumner, *Open Data Group, USA*
Steve Vejcik, *Open Data Group, USA*

2:45 - 4:15 PM　　**Session 3B** USING MODELING TO IMPROVE INFORMATION　　**E51-325**
QUALITY: THREE EXAMPLES
Chair: Craig Fisher, *Marist College*

Policy Making for Coopetitive Information Systems
Mario Mezzanzanica, *University of Milan Bicocca, Italy*
Mirko Cesarini, *University of Milan Bicocca, Italy*

The IASDO Model for Information Manufacturing Systems Modeling
Thanh Thoa Pham Thi, *Dublin City University, Ireland*
Markus Helfert, *Dublin City University, Ireland*
Howard Duncan, *Dublin City University, Ireland*

Modeling Operational Risk in Data Quality
Anton Raneses, *Oklahoma State, USA*
Camille Deyong, *Oklahoma State, USA*
Neil Glasstein, *U.S. Navy, USA*

2:45 – 4:15 PM　　**Panel 3** THE ROAD TO DATA QUALITY AT AERA ENERGY LLC　　**E51-315**

Moderator: C. Lwanga Yonke, *Aera Energy LLC*
Panelists:
C. Lwanga Yonke, *Aera Energy LLC, USA*
　　Achieving Data Quality: Aera Energy LLC's Journey
Bob M. Palermo, *Aera Energy LLC, USA*
　　Strategic DQ Improvement through Enterprise Architecture
Bob L. Bates, *Aera Energy LLC, USA*
　　Leveraging Information Governance and DQ Monitoring

4:15 – 4:30 PM   Coffee Break

4:30 - 6:00 PM   ESTABLISHING INFORMATION QUALITY   **E51-335**
STRATEGIES AND POLICIES WITHIN AN ORGANIZATION
Chair: Jesse Jacobson, *MIT Information Quality Program*

        Information Quality: A Business-Led Approach
        Thierry Delez, *Tetra Pak International SA, Switzerland*
        Didier P. Hostettler, *Tetra Pak International SA, Switzerland*

        **IQ Strategy: Assessing the Relationship Between Information
        Quality and Organizational Outcomes**
        John P. Slone, *Lockheed Martin Corporation, USA*

        Proactive IQ Discipline
        Thomas McLaughlin, *A Turnaround Company, USA*

4:30 – 6:00 PM   ADDRESSING INFORMATION QUALITY ISSUES IN   **E51-325**
MASTER DATA MANAGEMENT
Chair: Irit Askira Gelman, *University of Arizona, Tucson, USA*

        **Master Data Management: A Framework and Approach for
        Implementation**
        Mike Shin, *Knightsbridge Solutions LLC, USA*

        **Hewlett Packard Customer Master Program – Data Quality Audit
        of 6 Functional Masters**
        Delphine Clément, *Hewlett-Packard Company, France*
        Brigitte Laboisse, *Analyse Informatique des Données, France*

        An Ontology-Based Approach for Data Cleaning
        Paulo Oliveira*, University of Minho and GECAD/ISEP-IPP –
        Knowledge Engineering and Decision Support Group Institute of
        Engineering – Polytechnic of Porto, Portugal*
        Maria de Fátima Rodrigues, *GECAD/ISEP-IPP – Knowledge
        Engineering and Decision Support Group Institute of Engineering –
        Polytechnic of Porto, Portugal*
        Pedro Rangel Henriques, *University of Minho, Portugal*

4:30 – 6:00 PM   DATA QUALITY IN A LARGE ANALYTIC HEALTH   **E51-315**
CARE DATA WAREHOUSE: THE EVOLUTION OF GALAXY
        Moderator: Laura Sebastian-Coleman, *Ingenix/UnitedHealth Group*
        Panelists:
         Nancy Grimaldi, *Ingenix/UnitedHealth Group, USA*
         Paul Morrison, *Ingenix/UnitedHealth Group, USA*
         Ralph Tartaglione, *Ingenix/UnitedHealth Group, USA*

8:30 - 9:00 AM	Registration and Continental Breakfast	E51-345

9:00 - 10:30 AM **Session 5A** IMPLEMENTING IQ IMPROVEMENT IN THE HEALTH AND INSURANCE INDUSTRIES
Chair: Laura Sebastian-Coleman, *Ingenix/UnitedHealth Group*

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Data and Information Quality at the Canadian Institute for Health Information

Ann Chapman, *Canadian Institute for Health Information, Canada*
Heather Richards, *Canadian Institute for Health Information, Canada*
Steven Hawken, *Canadian Institute for Health Information, Canada*

Delivering Data On Time: The Assurant Health Case
Pravin Nadkarni, *Assurant, Inc., USA*

Re-abstraction Study of Discharges from Ontario Case Costing Hospitals
Heather Richards, Ann Chapman, Caroline Pelletier, Steven Hawken, *Canadian Institute for Health Information, Canada*

9:00 - 10:30 AM **Session 5B** DEALING WITH INFORMATION QUALITY TRADEOFFS, **Chair:** Markus Helfert, *Dublin City University*

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An Analytical Framework to Analyze Dependencies Among Data Quality Dimensions
Fabrizio De Amicis, *BSI Bank, Switzerland*
Daniele Barone, *Università di Milano "Bicocca", Italy*
Carlo Batini, *Università di Milano "Bicocca", Italy*

"Not All Data Are Created Equal": Inequality in Utility and Implications for Data Management
Adir Even, *Boston University, USA*
G. Shankaranarayanan, *Boston University, USA*

Redefining Information Quality and its Measuring: The Operations Management Approach
Zbigniew J. Gackowski, *California State University Stanislaus, USA*

9:00 - 10:30 AM **Session 5C** IMPROVING INFORMATION QUALITY: EXAMPLES FROM INDUSTRY AND GOVERNMENT
Chair: Joseph D Cassel, *EDS Client Delivery Executive*

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Measuring the Impact of Transactional Data Quality on Operational Risk and Capital Adequacy for Global Investment Banks
Chito Jovellanos, *Forward Look, Inc., USA*

Assuring Data Quality for ERP Implementation: Part 2 – Comprehending the Evolving Picture
Peter Aiken, *Department of Information Systems/VCU, USA*
Chris Metz, Anthony Berta, Bill Finkel, Tracy Skalak
   Defense Logistics Agency, USA
Bob Stanley, Susan Carter, Graham Blevins, Johns Sells,
John McKeon, Debi Crockett, David Rafner
   Data Blueprint, USA

Deploying a Common Data Quality Architecture
Nigel Totterdell, *Data Diagnostic Services, UK*

10:30 - 10:45 AM   Coffee Break

10:45-12:00 PM   Session 6A **ASSESSING THE IMPACT OF INFORMATION**   **E51-335**
QUALITY ON DECISION MAKING
Chair: Andy Koronios, *U. of South Australia*

> **A Framework to Assess Decision Quality Using Information Quality Dimensions**
> Mouzhi Ge, *Dublin City University, Ireland*
> Markus Helfert, *Dublin City University, Ireland*
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> **Data Quality in Engineering Asset Management Organizations – Current Picture in Australia**
> Jing Goa, *University of South Australia, Australia*
> Andy Koronios, *University of South Australia, Australia*
> Shien Lin, *University of South Australia, Australia*
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> **The Effects of Data Quality on Machine Learning Algorithms**
> Valerie Sessions, *University of South Carolina, USA*
> Marco Valtorta, *University of South Carolina, USA*

10:45-12:00 PM   Session 6B **MANAGING INFORMATION QUALITY: THE**   **E51-325**
CHALLENGE OF INTEGRATED ENTERPRISE SYSTEMS
Chair: Diane Strong, *W.P.I.* & Yang Lee*, Northeastern University*

> **Towards a Capability Maturity Model for Information Quality Management: A TDQM Approach**
> Saša Baškarada, *University of South Australia, Australia*
> Andy Koronios, *University of South Australia, Australia*
> Jing Gao, *University of South Australia, Australia*
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> **Quality by Design: HUD's Use of Metadata to Manage Information Quality**
> Beverly Hacker, *U.S. Department of Housing and Urban Development (HUD), USA*
> Adel Harris, *Cairo Corporation, USA*
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> **Development-Process-Flow Templates to Advance a Functional Presentation of the DAMA Curriculum Framework to Ensure Information Quality by Achieving CMMI Level 3 in Enterprise Projects**
> Herbert E. Longenecker, Jr, *University of South Alabama, USA*
> Deborah Henderson, *DAMA International and DAMA Foundation, Canada*
> Eva Smith, *DAMA International Foundation, USA*
> Patricia Cupoli, *DAMA International Foundation, USA*
> David Yarbrough, *Northrop Grumman, USA*
> Anne Marie Smith, *DAMA International Foundation, USA*
> Mark Mosley, *DAMA International Foundation, USA*

END OF ICIQ-06 CONFERENCE