The 1997 Conference on Information Quality

Conference Program

October 24, Friday

5:00 - 7:00 Registration
    Informal Discussions

October 25, Saturday

8:00 - 9:00 Registration

9:00 - 9:30 Chairs' Welcome and Opening Remarks
  Stuart Madnick, Conference Co-Chair, MIT
  Richard Wang, Conference Co-Chair, MIT
  Diane Strong, Program Co-Chair, WPI
  Beverly Kahn, Program Co-Chair, Suffolk University

9:30 - 10:20 Keynote Speech
  Edward D. Martin, M.D.
  Acting Assistant Secretary of Defense (Health Affairs)

10:20 - 11:00 Coffee Break

11:00 - 12:30 Paper Session 1: Information Quality in the Healthcare Industry
  Session Chair: Richard Wang, MIT
  A Risk Focused Model for Improving Information Quality: Lessons from
  the Science of Epidemiology
    Colonel Lane A. Ongstad, U.S. Air Force
  Quality Metrics for Healthcare Data: An Analytical Approach
    Rema Padman, Carnegie Mellon University
    Melissa Tzourakis, Medicode
  Data Quality Improvement: Best Practices in the Military Health Services
  System and the U.S. Army Medical Department
    Lieutenant Colonel David J. Corey, U.S. Army

12:30 - 2:15 Luncheon at MIT Faculty Club
  Luncheon Speech
    David Starr, Chief Information Officer, Reader’s Digest
2:30 - 4:00  Paper Session 2: Information Quality Improvement Frameworks and Methods  
Session Chair: Giri Kumar Tayi, SUNY-Albany  
Metrics for TDQM: The Case of IRI  
Rita Kovac, Information Resources Inc.  
Yang W. Lee, Cambridge Research Group  
Leo L. Pipino, University of Massachusetts, Lowell  
A Model for Delivering Quality Information as Product and Service  
Beverly Kahn, Suffolk University  
Diane Strong, Worcester Polytechnic Institute  
Richard Wang, Massachusetts Institute of Technology  
A Data Quality Engineering Framework  
Donna Meyen, MITRE  
Mary Jane Willshire, Colorado Technical University  

Paper Session 3: Assuring Information Quality through Software Quality  
Session Chair: Gene McGuire, American University  
Exploring Some Determinants of ES Quality  
Tor Guimaraes, Tennessee Technological University  
Youngohc Yoon, Virginia Commonwealth University  
Aaron Clevenson, E. I. DuPont de Nemours  
Formal Aspects of Software Testing and Validation and Interpreting them in the Context of ISO 9000  
K. Viswanathan Iyer, Regional Engineering College, Trichy, India  
Quality - What Does it Mean for Strategic Information Systems  
Olayele Adelakun, Inst. of Information Systems Science, Turku, Finland  
Information Quality as a Strategic Asset in Inter-Firm Relationships  
Ellen Christiaanse, Nijenrode University, The Netherlands  

4:00 - 4:30  Coffee Break  

4:30 - 6:00  Paper Session 4: Information Quality Improvement Tools  
Session Chair: Diane M. Strong, WPI  
Using P-Charts to Track Data Quality (Some Observations based on a simulation study)  
Elizabeth Pierce, Indiana University of Pennsylvania  
Out of Overinformation by Information Filtering and Information Quality Weighting  
Laure Berti, Universite de Toulon et du Var, La Gerde cedex, France  
A Quantitative Model to Support Data Quality Improvement  
Wiliiliam Haebich, G. C. Simson, G. R. Bowles & Associates, Australia  
A Case Study of Customer Knowledge Management Using Knowledge Cockpit  
Jessica Hu, Kuan-Tsae Huang, Kazashi Kuse, Geng-Wen Su, Ko-Yang Wang, IBM Global Services Consulting Group  
Zhen-Qiang Wang, IBM Research
Paper Session 5: Data Quality for Decision Making
Session Chair: Leo Pipino, University of Massachusetts, Lowell

The Impact of Data Quality Tagging on Decision Complacency
InduShobha N. Chengalur-Smith, SUNY-Albany
Donald P. Ballou, SUNY-Albany
Harold L. Pazer, SUNY-Albany

A Preliminary Analysis of Data Quality in Neural Networks
Barbara D. Klein, University of Michigan-Dearborn
Donald F. Rossin, University of Michigan-Dearborn

Teaching Data Quality in the Undergraduate Database Course
Richard G. Mathieu, University of North Carolina at Wilmington
Omar Khalil, University of Massachusetts at Dartmouth

6:15 - 7:15 Reception at MIT Faculty Club
7:15 - 9:00 Dinner at MIT Faculty Club

October 26, Sunday

9:00 - 10:30 Paper Session 6: Data Quality in Data Warehouses
Session Chair: Beverly Kahn, Suffolk University

A Data Quality Handbook for a Data Warehouse
Eva Gardyn, HSBC Asset Management, Melbourne, Australia

Preparing Data for the Data Warehouse
Stephen M. Brown, Vality Technology

Foundations of Data Warehouse Quality
Matthias Jarke, Technical University of Aachen, Germany
Yannis Vassiliou, National Technical University of Athens, Greece

Paper Session 7: Information Integrity in Databases
Session Chair: InduShobha N. Chengalur-Smith, SUNY-Albany

Information Integrity: A Structure for its Definition
Vijay V. Mandke, Indira Gandhi National Open University, New Delhi
Madhavan Nayar, Unitech Systems

Propagating Integrity Information in Multi-Tiered Database Systems
Arnon Rosenthal, MITRE
Paul Dell, MITRE

The Impact of Design Flaws
Luiz C. Siqueira, DBE Software

10:30 - 10:45 Coffee Break
10:45 - 12:15  Views from Consultants: Where Do We Go From Here?
Session Chair: Stuart Madnick, MIT
Panelists:
    Jerry Grochow, Chief Technology Officer,
    American Management Systems
    Dr. James V. McGee, Chief Knowledge Architect,
    Diamond Technology Partners

Conference Summary, Stuart Madnick, MIT

12:15  End of IQ 1997 Conference
Informal Discussions