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# Systems Analysis and Design Research: Past, Present and Future.

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# Systems Analysis and Design Research: Past, Present and Future

Andrew Gemino

Steven Alter

Dinesh Batra

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Keng Siau

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**Authors**

Andrew Gemino, Steven Alter, Dinesh Batra, Glenn Browne, Keng Siau, and Vijay Khatri

## **Part 1: Panel Topic and Panel Audience:**

### **Title: Systems Analysis and Design Research: Past, Present and Future**

It has been over thirty years since authors such as Demarco, Chen, Codd, Gane & Sarson and Yourdon introduced the ideas of information systems analysis and design. This panel will consider the state of affairs in system analysis and design research and consider the future for research in the area. Six controversial areas of future research interest, that suggest a break from more traditional approaches, will be considered by the panel. The topic areas include:

- Rigorous Requirements Specification versus Extreme Programming
- Traditional versus New Methods for Web and New Media Analysis and Design
- Traditional Development Methods versus Development through Open Source
- Traditional versus New Methods for Analysis and Design for Mobile Applications
- Methodological or Amethodological Approaches to SA&D Research
- The Use of Cognitive Theory and its Impact on SA&D Research

These themes will provide the focus for the interactive discussion. Panelists will each discuss two of these themes and then answer questions from participants in the session. The target audience is researchers and practitioners in systems analysis and design as well as researchers in the areas of Agile Development, New Media Development. Design for Mobile Applications and Cognitive Theory.

## **Part 2: Statement of Panel Objectives**

The objectives of the panel are to provide researchers with the opportunity to hear distinguished panelists present and discuss controversial areas in systems analysis and design research. In addition, all session participants will be able to engage in a facilitated discussion of the various research themes addressed by the panelists.

## **Part 3: Statement of Panel Format**

The Panel format will be facilitated by Andrew Gemino. The format of the panel will be a 5 minute introduction followed by 10 statements from each of the 3 panel members who will discuss two future research areas. A 45 minute discussion will be followed by a short summary at the end of the session by the panelists. This is summarized below.

Introduction: Andrew Gemino	(5 min.)
Three presentations (7 min. each,	35 min.)
Steven Alter	
Dinesh Batra	
Glenn Browne	
Vijay Khatri	
Keng Siau	
Facilitated Discussion	(40 min.)

## Part 4: Biographies

**Dinesh Batra** is a Knight-Ridder Research Professor at the Department of Decision Sciences and Information Systems in the College of Business Administration at the Florida International University. Dr. Batra has published articles in journals such as *Management Science*, *Communication of the ACM*, *Journal of MIS*, *Journal of Database Management*, *International Journal of Human Computer Studies*, *Data Base*, *European Journal of Information Systems*, *Communications of the AIS*, *Decision Support Systems*, *Requirements Engineering*, *Computers and OR*, *Information Systems Management*, and *Information & Management*. His research interests focus on systems analysis and design methods, usability issues in systems and databases, and distributed development. He is currently an associate editor in the *Journal of Database Management*, and *Communications of the AIS*, and Senior Editor in the *Information Systems Management*. He is a co-author of the book *Object-Oriented Systems Analysis and Design*. He has served as a President of the AIS Special Interest Group on Systems Analysis & Design (SIGSAND).

**Andrew Gemino** is an Associate Professor for the Faculty of Business Administration at Simon Fraser University. He received his Ph.D. in Management Information Systems from UBC. His research interests focus on systems analysis methods and information technology project management. His work has been published in *Communication of the ACM*, *Journal of MIS*, *Journal of Database Management*, *European Journal of IS*, *Data and Knowledge Engineering*, *Requirements Engineering Journal*, *Communications of the AIS*, and *Data Mining and Knowledge Discovery*. He is funded through grants from the National Sciences and Research Council (NSERC) and the Social Sciences and Humanities Research Council (SSHRC). He is President of the AIS Special Interest Group on Systems Analysis and Design (SIGSAND). He is co-author of a Canadian Edition of the book entitled “Experiencing MIS” which won Pearsons Education Book of the Year award in 2008. Andrew also volunteers his time in the Surgeon Information System Working Group for the Surgical Oncology Network associated with the BC Cancer Agency.

**Vijay Khatri** is an Associate Professor of Information Systems in the Operations and Decision Technologies Department at Kelley School of Business in Indiana University. He received his Ph.D. in Management Information Systems from the University of Arizona. His research interests center on data management and technology adoption. In his research related to *data management*, he is interested not only in developing techniques that would facilitate the elicitation of database requirements but also in understanding the cognitive aspects that influence the analysis and design of databases. In his research related to *technology adoption*, he seeks to explore technology and user characteristics that influence user behavior, and ultimately, adoption. His work has been published in journals such as *Information Systems Research*, *Decision Sciences*, *Information Systems*, *IEEE Transactions on Knowledge and Data Engineering*, and *Annals of Mathematics and Artificial Intelligence*, among others. He is a member of *IEEE*, *AIS*, *ACM* and *Infoms*.

**Keng Siau** is the E. J. Faulkner Chair Professor of Management Information Systems (MIS) at the University of Nebraska, Lincoln (UNL). He is the Director of the UNL-IBM Global Innovation Hub, Editor-in-Chief of the Journal of Database Management, North America Regional Editor of the Requirements Engineering journal, and Co-Editor-in-Chief of the Advances in Database Research series. He received his Ph.D. degree from the University of British Columbia (UBC). Professor Siau has over 200 academic publications. He has published more than 100 refereed journal articles, and these articles have appeared (or are forthcoming) in journals such as *Management Information Systems Quarterly*, *Journal of the Association for Information Systems*, *Communications of the ACM*, *IEEE Computer*, *Information Systems Journal*, *Journal of Strategic Information Systems*, *Information Systems*, *ACM SIGMIS's Database*, *IEEE Transactions on Systems, Man, and Cybernetics*, *IEEE Transactions on Professional Communication*, *IEEE Transactions on Information Technology in Biomedicine*, *IEICE Transactions on Information and Systems*, *Data and Knowledge Engineering*, *Journal of Information Technology*, *International Journal of Human-Computer Studies*, and others. Professor Siau served on the Organizing Committees of AMCIS 2005, ER 2006, AMCIS 2007, EuroSIGSAND 2007, EuroSIGSAND 2008, and ICMB 2009. Professor Siau has received numerous research, teaching, and service awards. He received the International Federation for Information Processing (IFIP) Outstanding Service Award in 2006, and the IBM Faculty Award in 2006 and 2008. Professor Siau has received more than \$3 million dollars of research funding from NSF, IBM, University of Nebraska Foundation, and other IT organizations.

**Glenn Browne** is an associate professor at the McIntire School of Commerce at the University of Virginia. His research focuses on cognitive and behavioral issues in systems development, project management, and managerial decision making, including information requirements determination, information search, and stopping rules. His articles have appeared in *MIS Quarterly*, *Management Science*, *Organizational Behavior and Human Decision Processes*, *Journal of Management Information Systems*, *Journal of the Association for Information Systems*, *Decision Sciences*, *Information Systems Journal*, *Communications of the AIS*, *International Journal of Electronic Commerce*, and other journals. He is an associate editor at *Information Systems Research* and is on the editorial board of the *Journal of Database Management*.

**Steven Alter** is Professor of Information Systems at the University of San Francisco. His research for the last decade has concerned developing systems analysis concepts and methods that can be used by typical business professionals and can support communication with IT professionals. His 2006 book, *The Work System Method: Connecting People, Processes, and IT for Business Results*, is a distillation and extension of ideas in 1992, 1996, 1999, and 2002 editions of his information system textbook. His articles have been published in *Harvard Business Review*, *Sloan Management Review*, *MIS Quarterly*, *IBM Systems Journal*, *European Journal of Information Systems*, *Decision Support Systems*, *Interfaces*, *Communications of the ACM*, *Communications of the AIS*, *CIO Insight*, and many conference proceedings.

## **Part 5: Statement of Equipment**

Standard presentation equipment (computer, project and PowerPoint) are all that will be required for the session.