Organizational Systems and Technology

Organizational Systems and Technology (OST) has a broad scope that covers a variety of topics. Its eclectic composition ranges from BI, to theoretical approaches to IS research, to supply and service system design. There are continually new topics, and many relate closely to what is currently "hot" in the world of practice - business process management, IT governance, and RFID. Others like project management have a timeless value. Topics in OST welcome papers that do not fit neatly elsewhere.

Minitracks:

• Advances in Design Research for Information Systems
• Analytics and Decision Support for Ecosystems
• Business and Enterprise Architecture: Processes, Approaches, and Challenges
• Digital Innovation
• Emerging Technologies and Innovations for Development
• Enterprise System Integration: Issues and Answers
• Human Capital and Technology in a Global Marketplace
• Impacts of Information Technologies on Consumer Activities and on Business Operations
• Information Security and Privacy
• Information Systems Procurement and Benefits Realization
• IT Governance and its Mechanisms
• IT/Project Management
• Open Source Application Software
• Organizational Issues of Business Intelligence, Business Analytics, and Big Data
• Practice-based IS Research
• Social-Technical Issues in Organizational Information Technologies
• Society, Information, Technology, and Economics
• Theory and Information Systems Research
• Topics in Organizational Systems and Technology

Track Chair:

Hugh Watson
University of Georgia
4475 Barnett Shoals Road
Athens GA 30602
Email: hwatson@terry.uga.edu
 Advances in Design Research for Information Systems Minitrack

This minitrack provides a venue for IS design researchers to share their work and interact with likeminded scholars. Design research may be viewed as having three major subfields.

1) Design theory research focuses on the development of theories about creating new or improved information systems based on kernel theories. The IS design theory concept was first articulated two decades ago (Walls, et al, 1992) and continues to be developed (Jones and Gregor, 2007). Research reported at the annual Design Science Research in Information Systems and Technology (DESRIST) conference proceedings illustrates work that continues in this area (Gurzick and Lutters, 2009). Design theory papers have also been published in the ICIS Proceedings (e.g., Sarnikar and Deokar, 2009) and at HICSS-44 (e.g., Zhang, et al, 2011), HICSS-45 (e.g., Lee, et al, 2011), HICSS-46 (Lu and Käkölä, 2013) and HICSS-47 (Holmström, Tuunanen and Kauremaa, 2014).


3) Science of design research involves the study of how designers actually conduct design activities.

Minitrack Co-Chairs:

Tuure Tuunanen (Primary Contact)
University of Jyväskylä
Department of Computer Science and Information Systems
Tel: +358 40 036 2601
Email: tuure@tuunanen.fi

Joseph Walls
University of Michigan
Tel: (734) 763-4610
Email: jgwalls@umich.edu

George Widmeyer
Email: george.widmeyer@gmail.com
Analytics and Decision Support for Ecosystems Minitrack

This minitrack provides calls for perspectives from business, policy, computational sciences, and social sciences on analytics and decision support systems used for ecosystem orchestration. The term ecosystem is now widely used in explaining the complexities of organizational as well as regional and national business and innovation activities. Referring to an economic community supported by a foundation of interacting organizations and individuals, ecosystems have further been defined with human networks that generate extraordinary creativity and output on sustainable basis, and as business ecosystems consisting of interdependent firms that form symbiotic relationships to create and deliver products and services.

Topics of interest include, but not limited to:

• Challenges in decision support in ecosystems: the policy perspective
• Challenges in decision support in ecosystems: the business perspective
• Case studies of decision support in ecosystems
• Analytics for business ecosystems
• Analytics for innovation ecosystems
• Social network analysis and metrics in the ecosystem context
• Ecosystem modeling
• Simulations of ecosystems
• Visual support for decision making in ecosystems
• Collaboration systems for multi-actor decision support
• Network orchestration
• System leadership

Minitrack Co-Chairs:

**Martha Russell** (Primary Contact)
Stanford University
Tel: (650) 646-1331
Email: martha.russell@stanford.edu

**Kaisa Still**
VTT, Finland
Email: kaisa.still@vtt.fi

**Rahul Basole**
Georgia Institute of Technology
Tel: (650) 799-4750
Email: rahul.basole@ti.gatech.edu
Business and Enterprise Architecture:
Processes, Approaches and Challenges Minitrack

This minitrack solicits paper submissions that: advance our knowledge of EA; help us learn about effective processes and approaches to effectively manage the EA and the EA development process; and begin to identify ways to measure the organizational benefits derived from EA.

Papers will be solicited in several areas, including, but not limited to the following: -
- Business Architecture description and development
- Agile Enterprise Architecture
- Business Architecture process models
- Architecting Processes, Methodologies and Practices
- Architectural Frameworks and Theory
- Tools and Techniques Supporting Architecting
- Service-Oriented Architectures (including Web Services)
- Enterprise Information Security Architectures
- Addressing EA Management, Development, and Communication Challenges
- Integration of EA with IT Governance
- Using SOA to Implement an EA
- Surveys and Case Studies
- Assessing EA's Contribution to Organizational Success

Minitrack Co-Chairs:

Frank Armour (Primary Contact)
American University
Email: farmour@american.edu
Tel: (202) 251-3554

Steve Kaisler
SHK & Associates
Email: Skaisler1@comcast.net
Digital Innovation Minitrack

Organizations must continually innovate in order to succeed over time. In recent decades, an increasing portion of this innovation is enabled or driven by digital technologies. New products, services, operations, business models, industrial arrangements, work organization, etc., have all been dramatically influenced by the digital technologies that are involved in their development, and the digital technologies that are embedded in the innovations themselves. The goal of this minitrack is to offer a venue for research that focuses on unique and specific effects of digital technologies on different forms of organizational innovation.

The minitrack solicits three types of submissions: (1) characterizations of novel process innovations involving digital technologies; (2) digital technologies embedded in product and service innovation - as well as product servitization - as a result of digitalization; and (3) emerging infrastructures for digital innovation. Next we will describe each of these types of submissions with examples of each.

(1) Digital Technologies and Process Innovation
Papers that investigate the role of digital technologies in the context of organizational processes and process change efforts. Topics include:
- Digital technologies and organizational routines and business processes
- Digitally-enabled business models and strategies
- Sociotechnical and sociomaterial conceptualizations of organizational change
- Digital technologies and organizational design
- Business process change in organizations and the role of digital technologies
- Digital technologies and re-configuration of value-chains
- Industrial organization and changes associated with digital technologies
- Embedding of digital technologies in tools and changes in work

(2) Digital Technologies and Product / Service Innovation
Papers that investigate the role of specific digital technologies within innovative products or services, and how these technologies may impact organizational innovation and strategy (e.g., architectures, modularity, platforms, systems integration).
- Organizing for digitally-enabled products and services
- Digital technologies and service science
- Digital convergence and organizational
- Industrial structures
- Digitalization of physical products and changes in strategy
- Innovations in digital service ecosystem and platform
- Digital product architectures
- Digitalization, product modularity, and related modes of organizing
- Digital controls and organizing

(3) Infrastructures for Digital Innovation
Papers on the digital technologies (tools, infrastructures, etc.) that support innovative processes such as software development, product design & engineering, R&D, and science are encouraged. Such practices may be different than other organizational practices because they involve virtual collaboration, geographic distribution, iteration, simulation, etc. The tools and infrastructures upon
which these practices rest might shape those practices in different industrial contexts. Examples of potential topics along these lines include:

- Digital innovation platforms (such as mobile platforms, crowd-sourcing platforms, etc.) and organizing
- Organizing for the development of digital infrastructures
- Digital tools enabling creativity, design, engineering, and other innovative activities (for example, CAD tools and engineering activity; CASE tools and software development; CAS tools and strategy development etc.) Infrastructures for organizational and interorganizational innovation, such as product lifecycle management (PLM) systems in manufacturing; building information modeling (BIM) environments in the AEC industry; or cyberinfrastructure (or e-science) in science.
- Organizational elements of integrating disparate digital technologies; or of digital with non-digital systems

The types of studies that would be welcomed by this minitrack would include and explicit focus on a particular form of digital technology in the context of organizational innovation. We especially encourage papers that carefully attend to the fundamental elements and features of the digital technologies that shape or impact innovation processes and outcomes.

Beyond this requirement, we welcome all forms of research, including qualitative, quantitative, mixed, and conceptual papers. In particular, we seek:

- Quantitative and computational studies involving large data sets
- Case studies and interpretive work
- Design science and action research in organizational settings
- Ambitious, provocative, and creative conceptual or theoretical work of the nature and effects of digitalization

Minitrack Co-Chairs:

Nicholas Berente (Primary contact)
University of Georgia
Tel: (440) 725-6150
Email: berente@uga.edu

Kalle Lyytinen
Case Western Reserve University
Tel: (216) 543-6667
Email: kalle@case.edu

Youngjin Yoo
Temple University
Tel: (215) 204-3058
Email: youngjin.yoo@temple.edu
Emerging Technologies and Innovations for Development Minitrack

The topic of this minitrack focuses on the use of emerging information technology innovations to bring about economic, social, and human development. While current research suggests that the digital divides are decreasing, initiatives in this area remain a challenge. International agencies work with governments to implement policies and conduct studies on the nature of the gap between regions that are connected to and use IT extensively and those that do not. In essence, the research provides insight for policy makers to facilitate the achievement of socio-economic development goals by increasing financial investments, enriching the knowledge of organizations and citizens, and stimulating business activities in their regions. Contributions of research in have been to the management of economies through the implementation of information technology (IT) infrastructures to stimulate national development. Examples include the use of indicators such as gross domestic product and human development indices to assess the effect of mobile phones on development. The rising income inequalities in many countries, including the USA, has been attributed by some scholars to the technological advancements, ICTs in particular, while at the same time, these technologies can offer new opportunities the empower people living at the bottom of the pyramid.

This minitrack aims to address these issues and make a contribution to how emerging technologies and innovations can be used to bring about economic, social, and human development. It also aims to open up this discussion to a broader community of scholars that are involved in investigating these questions.

This minitrack invites submissions that are theoretically and empirically sound while offering implications for practice. Topics include but are not limited to:

- Affordable and accessible broadband connectivity - TV White Space
- Involvement of youths in innovative solutions
- New developments in virtual currencies e.g. Bitcoin
- Innovations in fighting child exploitation and bullying over the internet
- Technologies for Bottom of the Pyramid (BoP) Markets
- Frugal innovations and applications
- Global telecommunication infrastructures for development
- Applications to support Entrepreneurship and business growth such as micro-finance, micro-insurance and crowdfunding.
- Mobile payments systems and market access such as MPesa penetration and growth of businesses
- Cybercafe’s, tele-centers and community based ICTs effects on the lives of people
- Green Information Technology
- Cloud computing for development
- Policy implications for stimulating the growth of ICTs
- Governance models (national and international) for emerging technologies
- Policy, legal, and regulatory implications for adopting and using emerging ICTs to advance development objectives.
- Implications of emerging ICTs for security, privacy, transparency, and citizen empowerment.
- Emerging technologies and applications to provide information on climate change and disaster forecasting, monitoring, and recovery
• Using ICTs to support responses to conflict and violence.
• Innovative uses of emerging technologies to promote literacy
• Effects of ICT adoption on Social and human development
• Climate change and disaster recovery technologies and applications
• Healthcare applications to combat the spread of infectious diseases such as mobile health, healthcare social networks and health information applications
• Community health informatics and automated healthcare services

Theoretical, conceptual and empirical papers are welcome. Submissions that include theory development, frameworks and models for studying and applying emerging technologies are encouraged. For empirical papers, field studies, case studies, action research, innovative online data collection methods, and appropriate quantitative techniques are strongly recommended. Papers submitted should explicitly state their research methods.

Outstanding papers accepted in the minitrack can be fast-tracked for review consideration by and possible publication in the Information Technology for Development Journal (ITD)

Minitrack Co-Chairs:

Sajda Qureshi (Primary Contact)
University of Nebraska Omaha
Tel: (402) 554-2837
Email: squreshi@unomaha.edu

Gerald Grant
Centre for Information Technology, Organizations, and People (CITOP) and Carleton University
Tel: +1-613-520-2600 x 8006
Email: gerald.grant@carleton.ca

Anthony Ming
Governance and Natural Resources Advisory Services Division Commonwealth Secretariat
Tel: +44 20 7004 3621
Email: a.ming@commonwealth.int
Enterprise System Integration: Issues and Answers Minitrack

ERP applications are integrated suites that are becoming mature technologies in many organizations. Many firms have turned to Cloud Computing, building on Service-Oriented Architecture to enable the ERP solutions to co-exist along side other disparate intra-organizational applications. The major ERP vendors are currently attacking these issues, frequently with proprietary solutions. A more active involvement by the academic research community should allow for the establishment of a more open and standardized SOA/Cloud environment. Academics should have a role leading the use of these technologies.

Topics or research questions that are of particular interest include the following:

- ERP in the Cloud
- ERP and the Internet of Services
- What is the role of Business Process Management/Modeling when deploying an Integrated Enterprise System? What’s different in an era of Cloud and mature BPMS?
- How does ERP and the migration towards Cloud and SOA evolve or change the university or college curriculum?
- What are the costs and benefits of ERP/Cloud/SOA installations? Have expectations been realized? How do we know?
- What are the true costs of implementing an integrated enterprise solution and how are these costs accounting for in organizations? How does that change in a Cloud model?
- How are Integrated Enterprise Systems (ES) being adopted by organizations? What changes do organizations go through to get and deploy an ES? What resulting changes occur after the ES is implemented? Anticipated or not? Does this hold for Cloud-based ES?
- What are the common challenges and opportunities associated with integrating solutions within an enterprise? Across enterprises? How is integration changed when some systems reside on the Cloud?
- How do you manage the software development process in an ERP implementation in a Cloud era? How can the Project management and change management research be applied here?
- What is the real value of hands-on experience with ERP/SOA/Cloud in college curricula?
- How are ERP systems being extended beyond the internal business processes? What types of system-to-system interfaces are being used?
- What SOA and Cloud standards need to be in place for future expansion of ERP systems?
- What are some of the issues surrounding ERP usage, implementation, etc. when companies merge or use different ERP systems to meet different needs of the same but diverse organization?
- What are the Benefits, Barriers, Costs of SOA/Cloud technology?
- What factors influence SOA/Cloud adoption and use?
- What are the implementation methodologies and the best practices for integrating business systems, both in-house and in the Cloud?
- ERP and/or SOA/Cloud case studies
- How can we measure ERP and SOA/Cloud performance?
- What are the emerging business models or what comes after SOA?
- What are the organizational, political, and cultural barriers related with ERP/SOA/Cloud Computing adoption?
• How do we standardize Service-Level Agreements for enterprise systems in the Cloud?

Minitrack Co-Chairs:

Marinos Themistocleous (Primary Contact)
University of Piraeus, Greece and University of Coimbra, Portugal
Tel: +30 210 414 2723
Email: mthemist@unipi.gr

Gail Corbitt
california State University, Chico
Email: gail_corbitt@yahoo.com

Paulo Rupino da Cunha
University of Coimbra, Portugal
Email: rupino@dei.uc.pt
Human Capital and Technology in a Global Marketplace Minitrack

Human capital continues to be a scare and indispensable asset for managing technology in an ever changing global marketplace. This minitrack covers issues that are emerging where people and technology meet in this global marketplace. These issues may be examined from an organizational, political, managerial, cultural, psychological, and/or social perspective using industry, workgroup or department, and individual levels of analysis. Studies developing or extending theory on various workforce issues, such as diversity and professional identity, to the behavioral, technical, managerial and societal implications of mobile computing, to human capital analytics are just a few examples of the types of papers seen in this minitrack.

This minitrack seeks innovative research regarding emerging issues facing IS professionals such as the impact of BYOD, cloud computing, social networking technologies, and mobile technologies, as well as how these tools and technologies affect the management of human computing resources in a global economy. This minitrack also welcomes papers which offer insights into the training, professional development, and engagement of current and future generations of IS professionals as well as succession planning for continued success. This minitrack will welcome all methodologies and research paradigms as well as best practices/lessons learned that focus on the intersection of people and technology.

Topic areas (but not limited to) that this mini-track would embrace are listed below

- Environment and Society:
  - Legal, Societal, and Ethical Issues Related to Human Computing Resources
  - Needs, Interests and Abilities of Computing Professionals
  - Professional Commitment of Computing Personnel
  - Contributors to IS Professional Turnover, Retention, and Refilling the Pipeline
  - Communication/Interaction (individuals, groups, networks, organizations)/Succession Planning

- Student Attraction:
  - Attracting Students to the Computing Professions
  - Emerging Issues facing the Computing Workforce
  - Individual Fit/Alignment with the Work Environment

- HR Issues:
  - Human Capital Analytics
  - IS Managers/Leaders
  - IS Professionals
  - Career Mentoring
  - Sustainable Work Practices
  - Work-life Balance
  - Skills Training and Certifications
  - HRIS/HRMS, Including Designing IS Professional HR and Compensation Schemes
  - Behavioral Aspects of HCI
  - Career Development Practices for Computing Professionals
  - Diversity and Inclusion in the Computing Field

- External Issues:
  - Professional Services
Minitrack Co-Chairs:

Cindy Riemenschneider (Primary Contact)
Baylor University
Email: c_riemenschneider@baylor.edu
Tel: (254) 710-4061

Deborah Armstrong
Florida State University
Email: djarmstrong@cob.fsu.edu
Tel: (850) 644-8228
Impacts of Information Technologies on Consumer Activities and Business Operations Minitrack

This minitrack has already led to 4 successful Special Issues in the DSS journal. We expect to see papers in:

- Product ranking algorithms, reputation systems and the performance of online markets
- Using web analytics to influence how consumers select products and services
- Business analytics and big data in supply chain management
- Information sharing and integration along the supply chain
- New technologies for enhanced consumer engagement
- Using mobile technologies in customers service and support
- Sales innovation using real-time location and social data
- Emerging of new models for the ‘sharing economy’
- The impact of web 2.0 on competition and cooperation
- Online shopping and in tracking consumer decisions
- Capacity planning, contracting and supply chain design
- Social media implications for operations management
- Using mobile applications for order fulfillment
- Crowdsourcing and product innovation
- Outsourcing service operations
- Innovations in healthcare it
- Peer-to-peer marketing

Minitrack Co-Chairs:

Abraham Seidmann (Primary Contact)
University of Rochester
Tel: (585) 275-5694
Email: avi.seidmann@simon.rochester.edu

Yabing Jiang
Florida Gulf Coast University
Email: yjiang@fgcu.edu

Jie Zhang
University of Texas at Arlington
Email: jiezhang@uta.edu
Information Security and Privacy Minitrack

Despite the continued technological progress in cyber-security, the unauthorized disclosure of information and the intentional misuse of private information both remain pervasive worldwide.

The purpose of this interdisciplinary minitrack is to assess the current best practices and to advance research in information security and privacy. We are interested in the attitudes of consumers or private citizens about the importance of protecting or preserving privacy, policy framework, regulations and governance. Is information security under control? What are the perspectives on risks and compliance - from the individual, corporate, and societal perspectives? Proposed topics include the following, but are not limited to them:

1. Why do security breaches continue to occur? Why can’t technology be less porous and less susceptible to attack and break-in?

2. Why do spear-fishing attacks and other attacks targeted at personnel and human vulnerabilities continue to succeed? Why can’t employees be better trained?

3. What are the impacts of current security laws, regulations and industry guidelines on privacy and security (Privacy Act on consumer privacy, credit reporting, data security, children’s privacy, Gramm-Leach-Billey Act, Red Flags Rules, US-EU Safe Harbor Framework, etc.). How do laws and regulations issues of interests would be on how laws and regulations affect information security? How do they affect corporate policy? Is compliance inadequate, or do we need better laws and regulations?

4. What are the new security and privacy challenges from social networks and our emerging fully online world: How do we balance the legitimate needs of the state to protect itself and its citizens against citizens’ legitimate rights to privacy?

5. What are the new security and privacy challenges for individuals from social networks and our emerging fully online world: Do citizens know enough to make informed choices about the systems they use and the information that these systems disclose? Would full transparency, with clear and unambiguous corporate privacy policies result in a market in which consumers make rational and fully informed decisions? Would criminal penalties, including jail sentences, for corporate violation of stated policies, advance consumer interests? Or are regulations required, at least for minors, as they are with tobacco and alcohol?

6. Are there industry-specific issues in information security and privacy? Are there fundamentally different risks in different industries, from banking, insurance, and health care, to air travel and transportation, to supply chain management in food industries or cross-border shipments?

7. What are our future expectations for information security? The meaning of information security is constantly changing and expanding from a single institution to multiple organizations, and from individuals in a few industrialized nations to citizens worldwide. Should nations be legally able to develop and enforce data policies for their own nationals? Should these laws be binding on corporations domiciled elsewhere? Is the Digital Privacy Act/Right to Be Forgotten online
practical? Is it sufficient? Does it even address the correct issues, which may involve harmful data integration and first degree price discrimination or outright denial of services to individuals because of prior behavior or medical conditions?

8. Would the challenges triggered by information security help bring the world closer? History and cultures do matter. How do the East and West diverge or converge with regards to the issues enumerated above?

We invite research on shaping the future of information security and privacy that deals with the complex interaction among stakeholders (social actors, businesses, government agencies, etc.) in search for a symbiosis in the information age - understanding information security attitudes and behaviors; organizational culture for managing information security.

**Minitrack Co-Chairs:**

**Tung Bui** (Primary Contact)
Pacific Research Institute for Information Systems Management
Email: tungb@hawaii.edu
Tel: (808) 956-5565

**Eric Clemons**
The Wharton School, University of Pennsylvania
Email: clemons@wharton.upenn.edu
Tel: (215) 898-7747
Information Systems Procurement and Benefits Realization Minitrack

This minitrack focuses on purchasing and realizing benefits of information systems and the related challenges, methods, processes, and practices. We invite papers focusing on theoretical models, empirical results, or practical experiences on different aspects of purchasing information systems in the private or the public sector. The object of procurement initiative may range from technical systems, such as packaged software, and sociotechnical ensembles to different kinds of IS related services and procurement of tailored systems development.

Topics covered, but not limited to:
- IS procurement concepts
- Regulations in IS procurement
- IS procurement and/or benefits realization processes and methods
- Procurement and benefits realization as a part of IS development practice or methods
- IS procurement issues, challenges, or solutions
- Theoretical models for (understanding) IS procurement and benefits realization
- Stakeholders of IS procurement and benefits realization
- Case studies
- Legal, financial, and personal issues in IS procurement
- Business-IT alignment in IS procurement
- Architectures and models in IS procurement
- Customer-vendor relationship
- Procuring IS services and IS as service
- Procuring IS development work and consultancy
- Benefits and benefit realization in the context of IS procurement
- Utility of applying formal benefits realization or procurement practices

Minitrack Co-Chairs:

Samuli Pekkola (Primary Contact)  
Tampere University of Technology  
Tel: +358 40 586 0791 Email: samuli.pekkola@tut.fi

Tero Päivärinta  
Luleå University of Technology  
Tel: +46 72 532 0530  
Email: tero.paivarinta@ltu.se
IT Governance and its Mechanisms Minitrack

In many organizations, information technology has become crucial in the support, sustainability and growth of their businesses. The pervasive use of technology has created a critical dependency on IT that calls for a specific focus on IT Governance or Enterprise Governance of IT. Enterprise Governance of IT (EGIT) is an integral part of enterprise governance exercised by the Board overseeing the definition and implementation of processes, structures and relational mechanism in the organization enabling both business and IT people to execute their responsibilities in support of business/IT alignment and the creation of business value from IT-enabled business investments.

This minitrack is soliciting papers on theories, models and practices in the IT governance domain and aims to contribute to the understanding of IT governance and its structures, processes and relational mechanisms. Topics that this minitrack covers include:

- Theoretical models for IT governance and business/IT alignment
- Practices and cases on IT governance
- IT governance structures, processes and relational mechanisms
- IT governance related to enterprise governance
- IT governance roles of the Board and Executive Management
- Maturity models for IT governance and IT processes
- IT balanced scorecard
- Strategic information systems planning
- COBIT, VAL IT, ITIL and other quality models
- ISO 38500 standard for Corporate governance of IT
- Other mechanisms for IT governance: IT steering committees, information economics, service level agreements
- IT governance and regulatory codes/acts such as Basel II and Sarbanes-Oxley
- Enterprise governance of IT
- Business/IT alignment
- Benefits realization through IT
- IT portfolio management
- IT investment management

Minitrack Co-Chairs:

**Wim Van Grembergen** (Primary Contact)
University of Antwerp,
Antwerp Management School,
IT Alignment and Governance Research Institute, Belgium
Email: wim.vangrembergen@ua.ac.be

**Steven De Haes**
University of Antwerp,
Antwerp Management School,
IT Alignment and Governance Research Institute, Belgium
Email: steven.dehaes@ua.ac.be
IT/Project Management Minitrack

This minitrack provides scholars and decision-makers in organizations an opportunity to create and share knowledge that enhances project managerial skills and perspectives necessary to enhance the innovation process and to bring technological advances to the marketplace and particularly through projects. Both scholars and practitioners must be able to understand, inspire, and guide students, professionals, and technical employees in discovering the benefits of new project software and skills that affect strategy, marketing, manufacturing, and financial functions of the organization. The mini track encourages case and qualitative studies and empirical analysis that explore and describe new frontiers as well as what has worked and what has not in theory and practice of project management. The sessions are led in an interactive, cordial way that involves presenter/audience interaction and networking.

Project Management Minitrack is designed to attract papers (and audiences) in the following areas:

• Managing in a multidisciplinary and global technical team environment
• Using IT-based project management tools and techniques effectively
• Emerging tools and techniques for managing information system projects
• Leadership and team management issues in technology-based project organizations
• Leading and managing internal and external project stakeholders in IT projects Management tools and techniques (including information systems) for capturing and sharing knowledge across projects
• ‘Open’ project management
• Developing state-of-the-art project organizations
• Knowledge and skill building for project managers

Minitrack Co-Chairs:

Joseph Weiss (Primary Contact)
Bentley University
Tel: (617) 833-8354
Email: jweiss@bentley.edu

Sue Newell
University of Sussex
Tel: +44 1273 678266
Email: Sue.Newell@sussex.ac.uk

Jacky Swan
Warwick Business School
Tel: +44 24 765 24271
Email: Jacky.Swan@wbs.ac.uk
Open Source Application Software Minitrack

Application software for profit- and non-profit organisations such as enterprise software (e.g., enterprise resource planning systems (ERP-systems), customer relationship management systems (CRM-systems), business intelligence systems (BI-systems)) supports managerial decisions, business processes, economic exchange, and enhances organisational capabilities. Application software also enables the creation and delivery of new products, services, and business concepts. The role of software is therefore crucial for organisations. On the other hand, the costs for these software systems are immense (e.g., licensing, configuration, modification, adoption, maintenance). As a consequence there is a growing number of organisations using open source application software in order to reduce IT-costs.

This minitrack therefore invites theoretical, empirical and practice-oriented submissions that address important research questions relevant to open source application software. Topics of interest include, but are not limited to:

- Patterns for development and evolution
- Platforms for development, distribution and communication
- Use and maintenance
- Licensing and forking
- Open source communities (communication channels, codes of conduct)
- Legal and ethical issues (e.g. ownership, intellectual property)
- Maturity
- Target groups and dissemination
- Business models and commercialisation
- Economical aspects
- Impact of crowdsourcing and the open movement (e.g., open data, open innovation) on open source application software
- Case studies
- Field reports and best practices
- Trends

Minitrack Co-Chairs:

Alexandra Kees (Primary Contact)
University Bonn-Rhein-Sieg
Tel: +49 2241 865-237
Email: alexandra.kees@h-brs.de

Michael Adams
Queensland University of Technology
Tel: +61 7 3138 0000
Email: mj.adams@qut.edu.au

Taizan Chan
Queensland University of Technology
Tel: +61 7 3138 2533
Email: taizan.chan@qut.edu.au
Organizational Issues of Business Intelligence,
Business Analytics and Big Data Minitrack

From an information systems perspective, business intelligence, business analytics, and recently, big data constitute a dynamic, fascinating and highly relevant field of research and practice. Open research challenges include managerial considerations (BI/BA strategy, BI/BA organization and governance, BI/BA value, data quality management, etc.), process-centric business intelligence, and inter-organizational aspects. As organizations are learning how to leverage ‘big data’ (including social media data, mobile data, web data and network data) new innovative applications of big data analytics are expected to emerge, and with them new research challenges, yet to be discovered.

This minitrack will accept papers with a managerial, an economic, a methodological or a technical perspective on the above topics. The main emphasis is placed on the business and organizational aspects of Business Intelligence, Business Analytics and Big Data rather than technology. Contributions from the fields of theory building, design research (methods and models), action research as well as analyses of existing or innovative applications are welcome.

Minitrack Co-Chairs:

Olivera Marjanovic (Primary Contact)
University of Sydney Business School
Email: olivera.marjanovic@sydney.edu.au

Barbara Dinter
Chemnitz University of Technology, Germany
Email: barbara.dinter@wirtschaft.tu-chemnitz.de

Thilini Ariyachandra
Williams College of Business, Xavier University
Email: ariyachandrat@xavier.edu
Practice-based IS Research Minitrack

This minitrack focuses on practice-based research. Such research emphasizes real-world problems and solutions with rich descriptions of phenomenon in their natural setting. Theory may be used to inform the data analysis, but in some cases, the underlying phenomenon is so new that it might be at a pre-theory stage in which case the authors present an insightful conceptualization of the new phenomenon while stopping short of offering a new theory.

This minitrack seeks to encourage practice-based research on new and emerging IS issues in organizations. Practice-based research aspires to bridge the gap between academic theory and practice; it aspires both to introduce researchers to state of the art practices and issues from industry as well as introduce managers to research that makes sense of and brings coherence to the issues they face. The methods used in practice-based research are often exploratory, field-based studies involving interviews, observations, and/or descriptive surveys. The intense pressure to achieve methodological distinction and theoretical contribution often results in very current practice-based topics being eschewed by researchers, because the topics themselves are not mature enough in practice to achieve desirable samples or sample sizes, nor are they conducive to theorizing since so little is known. These are precisely the reasons that exploratory, practice-based research can play a tremendous role in helping establish and lay the foundations of a research domain while providing insights into an emerging topic. This minitrack solicits high-quality, practice-based research.

This minitrack solicits high-quality, practice-based research. Accepted articles will be considered for fast-tracking into MIS Quarterly Executive, a journal whose mission is to provide an outlet for high quality practice-based IS research. The minitrack seeks research on current IS topics, such as but not limited to:

- Wearable technology opportunities and obstacles
- The device is just the beginning: Bring your own app challenges facing IT managers
- Enterprise IT’s role as app developer and app life cycle manager, developing for speed
- The emergence of sports technology and its impact on sports consumption
- Equipping employees with omnipresent 4G - who needs it, who does not
- The impact of tablets on work productivity
- When big data is too big - how far should we go with big data?
- The threat from the other ‘C’s - how CIOs work with Chief Data Officers, Chief Media Officers, Chief Innovation Officers, Chief Digital Officers
- IT in support of ethical consumption
- IT infrastructure in a hyperconnected world
- The Cloud: how far should we go?
- Transforming the role of technologist in a world of contracted services in the Cloud
- Enterprise transaction processing data and big data, the analytic power in integration
- Measuring innovation from idea to integration, who really owns the risks and rewards?
**Minitrack Co-Chairs:**

**Dorothy Leidner** (Primary Contact)
Baylor University
Tel: (254) 710-2258
Email: dorothy_leidner@baylor.edu

**Michael Milovich**
Baylor University
Tel: (254) 710-3493
Email: michael_milovich@baylor.edu

**Ester Gonzalez**
California State University, Fullerton
Tel: (657) 278-4802
Email: esgonzalez@fullerton.edu
Social-Technical Issues in Organizational Information Technologies Minitrack

This minitrack focuses on information systems research areas impacting the intersection of humans and technology in an organizational context. Social issues related to organizational information technologies (IT) represents one of the most often discussed underpinnings in information systems research throughout the tenure of the IS field. Social issues are those research topics most aligned with the human factor in terms of information systems planning, development, implementation, and utilization.

This minitrack includes all aspects of social issues that are impacted by information technologies affecting organizations and inter-organizational structures. This would include the conceptualization of specific social issues and their associated constructs, empirical validation of social models, and case studies illustrating socialization success and failures.

Authors are invited to submit papers that address social issues and IT in organizations, but not necessarily limited to the following:
1. Organizational Culture and identity issues
2. Relationship issues
3. Human Interaction issues
4. Diversity in the IT Workforce
Each area is stipulated to have many different sub-topics

The types of studies that would be welcomed by this mini-track would include, but would not be limited to research papers (conceptual, theoretical, and empirical) as well as case studies, research-in-progress, and best practices/lessons learned.

Minitrack Co-Chairs:

Michael Knight (Primary Contact)
Texas A&M - Kingsville
Tel: (920) 569-9485
Email: Michael.knight@tamuk.edu

Dragos Vieru
University of Quebec
Email: dragos.vieru@teluq.ca

Dawn Medlin
Appalachian State University
Email: Medlinbd@appstate.edu
Society, Information, Technology, and Economics Minitrack

This minitrack extends our coverage of competitive strategy, economics, and information systems to include societal and policy issues. For 25 years we focused on the impact of technology on business and business strategy. Papers in the mini-track addressed the changes in consumer behavior created by changes in information availability and the changes in corporate strategy created by changes in information availability. Just as changes in consumer behavior overwhelmed managers’ ability to plan and to formulate strategy 25 years ago, changes in corporate strategy and in corporate business models threaten to overwhelm regulators and policy-makers today. Moreover, when the mini-track was first created 25 years ago, it was a unique venue for the publication of research in information economics. In the intervening 25 years, WISE has been created, ISR has matured, and HICSS tracks and mini-tracks in areas from eCommerce and eGovernment to outsourcing and cloud computing have emerged. The adjustments we are making to this mini-track will uniquely advance the IS profession and the HICSS conference.

The minitrack will now address the interactions between technology and changes in consumer behavior, between consumer behavior and changes in corporate strategy, and between corporate strategy and regulatory policy. The intent is to understand how technology affects strategy, how strategy affects regulation and the law, and how regulation and the law can best serve the interests of society. The mini-track seeks to engage a far broader range of social sciences, including anthropology, sociology, psychology, and, of course, the law.

The mini-track will continue to explore topics in information economics and business strategy, including but not limited to the following:

- Case studies of the application of strategic IS and their impacts on firms, markets and economies
- Economic analysis of investments in information systems in a wide range of competitive and commercial application areas, and the relationships between systems use and market share, profitability, business value or other measures of competitive advantage and firm performance
- Strategic analysis of IT and cloud computing services, sourcing, and contracts
- Business strategy on the Internet, electronic markets and digital convergence
- Property rights, incomplete contracts, transaction costs and other theories to understand inter-organizational IS
- Channel development, transformation and conflict in the presence of emerging technologies
- Product design with IT, and the bundling and pricing of physical and digital goods and services

The minitrack will now also include a wide range of topics not explicitly grounded in economics:

- Privacy and privacy policies, including studies of consumer preferences and attitudes, and regulatory policies designed to balance the needs of the State for stability and self-preservation and the desires of citizens for anonymity and privacy.
- Social networks and the changing nature of real world relationships, including but not limited to changes in dating, changes in relationships between employees and their
organizations, and the changing relationship between employees at competing organizations based on prior social connections.

- Changes in competition law, antitrust law, and regulation, based upon new online business models
- Social networks and social change, ranging from increased social cohesion to violent regime change

**Minitrack Co-Chairs:**

**Robert Kauffman** (Primary Contact)
Singapore Management University
Email: rkauffman@smu.edu.sg

**Eric Clemons**
University of Pennsylvania
Email: clemons@wharton.upenn.edu

**Rajiv Dewan**
University of Rochester
Email: rajiv.dewan@rochester.edu

**Thomas Weber**
Ecole Polytechnic Federale de Lausanne
Email: thomas.weber@epfl.ch
Theory and information Systems Minitrack

The “Theory and Information Systems” minitrack invites submissions that review, integrate, or utilize meta-analytic approaches to building cumulative theory. Submissions which present “local” contextual theory are also welcome. Research over the last decades has emphasized theory development in IS and other social and behavioral science disciplines. The resulting proliferation of theories and constructs may have redundancies, overlaps, and span disciplinary boundaries. Theory reviews, meta-analysis, and interrogation will help produce a cumulative tradition that will benefit the disciplines by producing meta-theory and frameworks to understand the relationships among theories. The goal of this minitrack is to provide social and behavioral sciences research with a better understanding of fundamental IS-relevant theories, help organize our theories to be accessible to practice, and increase our understanding of the philosophical commitments represented in their use.

Topics of interest in this minitrack include but are not limited to:

- Integration or synthesis of social and behavioral science theories;
- The theoretical ties and boundary spanning across different disciplines (e.g. healthcare and IS, and sustainability science and IS, energy informatics), and the trends in theories;
- Approaches to theory meta-analysis (meta-review, meta-theorization, meta-statistical analysis)
- Research on ontologies, taxonomies, frameworks, and categorizations of constructs and variables used in information system theories;
- The use of natural language processing, data mining, and predictive analytics to better understand and interrogate theories;
- Discussion of the roles of theories used to explain, approaches used to predict (e.g. neural nets and big data), and of theories of understanding;
- Exploration of the dependencies of constructs and variables;
- Exploration of the boundaries of theory “domains.”

This minitrack also has an associated ISWorld website devoted to theories used in IS research (http://istheory.byu.edu/wiki/Main_Page) — which won the 2005 AISWorldNet Challenge Award for the best website based on AISWorldNet user voting. We intend to uphold this high standard and advance the website further by increasing the synergy between mini-track outcomes and website content.

Minitrack Co-Chairs:

**Dirk S. Hovorka** (Primary Contact)
University of Sydney Business School
University of Sydney, Australia
Email: dirk.hovorka@sydney.edu.au

**Kai R. Larsen**
Leeds School of Business
University of Colorado
Email: Kai.Larsen@colorado.edu
Topics in Organizational Systems and Technology Minitrack

This minitrack is special. It is set up to provide a forum for papers in the Organizational Systems and Technology track that do not ‘fit’ exactly in a specific track. We often serve as an incubator for new ideas.

Over the years we have actively solicited non-traditional, imaginative, and thought-provoking research in any IT area. We are particularly interested in papers that break new ground in new areas, or those that apply existing research to new industry groups or fields.

The papers that we accept generally have the following characteristics:
1. They are cross-disciplinary - can be disciplines other than MIS
2. They address current topics that are important to today’s managers
3. They have a practitioner ‘flavor.’
4. Case studies are welcomed, particularly if they propose questions that will stimulate discussion among session attendees.

Minitrack Co-Chairs:

Mark N. Frolick (Primary Contact)
Xavier University
Email: Frolick@xavier.edu

Kelly Rainer
Auburn University
Email: Rainer@business.auburn.edu

Jim Ryan
Troy University
Email: jeryan@troy.edu