Knowledge Innovation and Entrepreneurial Systems

Knowledge Innovation and Entrepreneurial Systems recognizes the evolving nature of work and society to being knowledge based. Competitive pressures are forcing organizations to do more with less and to leverage all they know to succeed. Knowledge systems are those systems developed to facilitate collaboration, knowledge capture, storage, transfer and flow; knowledge use; as well as to foster creativity and innovation. This track explores the many factors that influence the development, adoption, use, and success of knowledge systems. These factors include culture, measurement, governance and management, storage and communication technologies, process modeling and development. The track also looks at the societal drivers for knowledge systems including an aging work force, the need to distribute knowledge and encourage collaboration in widely dispersed organizations and societies, and competitive forces requiring organizations of all types to adapt and change rapidly.

Minitracks:
- Confidentiality, Integrity, and Availability of Knowledge, Innovation, and Entrepreneurial Systems
- Designing and Deploying Advanced Knowledge Systems
- Innovation Uncertainties and Socio-Political Legitimization
- Knowledge Economics
- Knowledge Flows, Transfer, Sharing, and Exchange
- Knowledge Management Value, Success, and Performance Measurements
- Knowledge Sharing and Utilization in International/Global Setting
- Knowledge Society
- Managing Knowledge for Innovation and Agility
- Organizational Learning
- Report from the Field
- The Organizational Use of IT-Mediated Crowds
- Tools and Software for Knowledge Management

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Confidentiality, Integrity, and Availability of Knowledge, Innovation, and Entrepreneurial Systems Minitrack

This minitrack seeks papers that investigate issues related to security and protection of intellectual assets and explore how organizations can use security measures to protect their KM practices.

Possible topics include, but are not limited to:
- Securing intellectual assets;
- Legal concerns when implementing KMS.
- Techniques used to scan employee communication channels (e.g., email, Facebook, text messages);
- Security strategies within and outside the company boundaries;
- Training employees on potential threats to security breaches;
- Preventative measures to secure KM assets;
- Knowledge loss risk management;
- Impact of immigration and cultural issues on potential KM security breach;
- Using KM security to mitigate impacts of retirement and worker transience;
- Measuring risk of knowledge loss due to security breach;
- Security models and architectures for knowledge systems;
- Modeling risk in knowledge systems;
- Tradeoffs in knowledge systems between security and knowledge sharing;
- Technologies for knowledge system security.

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Designing and Deploying Advanced Knowledge Systems Minitrack

Researchers and practitioners interested in submitting papers to this minitrack are encouraged to explore (1) the design, evaluation and deployment of knowledge systems that integrate emerging technologies like social media, mashups, ubiquitous IT; (2) project management methods and tools involved in the design and deployment of such knowledge systems; and/or (3) changing organizational knowledge processes and structures due to the use of these technologies. We welcome an integrative view spanning the entire life-cycle of knowledge systems - from knowledge systems design through deployment to retirement.

Topics of interest include but are not limited to:

- Methodologies, tools, processes, and technologies for developing knowledge systems
- Management of design and deployment projects of knowledge systems
- Empirical studies of designing and using knowledge systems
- Systems design for social knowledge creation and use (e.g. social media system architectures)
- Incorporating and/or integrating knowledge services and mashups, social media, Web 2.0, cloud computing, and/or ubiquitous technologies in knowledge systems
- The design, evaluation and/or use of processes, semantic technologies, knowledge retrieval and representation methods, and/or systems to map, track, and/or visualize social networks and/or work systems in order to facilitate knowledge creation and sharing and quick problem solving (e.g., when unexpected coordination breakdowns emerge)
- Co-design of organizational work systems and knowledge systems
- Design processes and representations for designing work systems and knowledge systems
- The role of organizational digital natives in the design and use of knowledge systems
- Design science and design theory research in knowledge systems design and deployment
- Kernel (reference) theories for knowledge systems design and deployment (e.g., theories for individual, team and organizational learning)

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Innovation Uncertainties and Socio-Political Legitimization Minitrack

Innovation Uncertainties and Socio-Political Legitimization minitrack focuses primarily around innovation uncertainties from a societal perspective and how social-political legitimization supports or hinders processes and organizations’ strategies for developing and diffusing new technologies knowledge diffusion and innovation commercialization.

This minitrack seeks papers that investigate issues related to innovation uncertainties and explore how organizations can proactively incorporate stakeholder considerations in new development. Possible topics include, but are not limited to:

- Innovation uncertainties
- Stakeholder management/ambiguity
- New product/service development
- Intellectual property management
- Societal benefits realization
- Cognitive legitimation
- Socio-political legitimation
- Sustainability
- Business ethics
- Public policy formulation
- Innovation process management
- Project management
- Technological diffusion
- New innovation marketing
- Technological forecasting
- Strategic planning
- Human resource skills management

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Knowledge Economics Minitrack

This minitrack aims to provide insight on the knowledge economics and emphasizes a holistic view on the economic implications of knowledge, including the value and economics of repositories and the overall value of knowledge. Further on, implications of the knowledge society and knowledge based policy are covered within the scope of this minitrack.

Possible contributions regarding the economics of knowledge management and transfer may include, but are not limited to the following:

- Creating innovation through knowledge management
- Value and economics of repositories
- Implications of the knowledge society
- Knowledge based theory
- Knowledge based society
- Costs associated with knowledge management and knowledge transfer
- Tangible and intangible (business) value of knowledge management systems
- Methods for measuring the costs and benefits of projects involving knowledge management systems
- Measuring, managing and promoting intellectual capital
- Economics of inner and cross-organizational knowledge transfer
- Business models involving knowledge management and knowledge transfer
- The role of human, intellectual and social capital in knowledge management and knowledge transfer

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Knowledge Flows, Transfer, Sharing and Exchange Minitrack

Knowledge flows occur between individuals, among groups of individuals, and among other entities such as firms and networks. This minitrack focuses on examining the nature and role of knowledge flows (e.g., knowledge transfer and knowledge sharing) among entities. Technical, managerial, behavioral, organizational, and economic perspectives on knowledge flows will be accepted and presented in this mini-track.

Potential topics that this minitrack will address are:

- The effects of consumerization of IT (COIT) on knowledge flows
- Knowledge sharing, flows, and transfer within the context of Social Media
- Characterization of the nature of knowledge flows.
- Design of information and communication systems that facilitate knowledge transfer and sharing.
- Role of social computing and social media in knowledge transfer and sharing
- Technical challenges and solutions in the development and implementation of systems that facilitate knowledge flows.
- Managerial and organizational challenges/solutions in the institutionalization and implementation of processes and activities that facilitate knowledge flows.
- Intra- and inter-organizational processes for effective leverage of knowledge through knowledge transfer and sharing.
- Enablers and inhibitors of knowledge sharing and knowledge transfer behaviors.
- Effects of national, professional, and organizational cultures on knowledge transfer and knowledge sharing.
- Knowledge transfer and sharing behaviors within emergent organizational forms such as virtual communities.
- Role of information and communication technologies in managing knowledge flows.
- Knowledge reuse in organizations.
- Organizational and economic incentive structures for knowledge sharing and use.
- Knowledge acquisition processes.
- Effect of organizational culture on knowledge transfer.
- Building knowledge capabilities to harness and enable knowledge flows.
- Knowledge flows (and sharing) within networks and communities.
- Harnessing knowledge flows for creativity and innovation.

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Knowledge Management Value, Success and Performance Measurements Minitrack

This minitrack investigates the current state of research in measuring KM, organizational memory, and organizational learning success. Eventually, another purpose of this minitrack is to present research on how to value knowledge-based initiatives.

Topics of interest include but are not limited to:

- Frameworks and models for assessing knowledge management and/or organizational memory systems
- Methodologies and processes for measuring knowledge management and/or organizational memory success and performance
- Impact of knowledge management strategy, organization, systems, culture, and other issues on knowledge management/organizational memory success
- Organizational effectiveness/efficiency due to knowledge management/organizational memory/organizational learning, knowledge and organizational memory use
- Knowledge management, organizational memory, and organizational learning metrics
- Knowledge management, organizational memory, and organizational learning success factors and key performance indicators
- Benchmarking of knowledge management/organizational memory initiatives
- Case studies of knowledge management and organizational memory success and performance measurements
- Measuring knowledge management and/or organizational memory performance in global organizations and globally dispersed communities
- Effectiveness and/or efficiency of knowledge management/organizational memory systems
- Modeling and measuring the impact of social software on knowledge management performance
- Defining knowledge management and organizational memory success
- Rigorous anecdotes and user stories and their theoretical basis to facilitate the value of knowledge-based initiatives
- Developing grounded theory approaches to valuing knowledge-based initiatives
- Understanding knowledge-based initiatives’ activities and output as service offerings and exploring their productivity
- Usage, adoption and success of knowledge management methods

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Knowledge Sharing and Utilization in International/Global Setting Minitrack

This minitrack explores organizational knowledge sharing and utilization in the international/global context. Organization-wide knowledge systems, such as ERP, KM, and CRM systems, are utilized by people and organizations around the world. Facilitating knowledge sharing and utilization from the knowledge systems among team members and co-workers from different cultures and regions can be an enormous challenge in both small and large companies. During the implementation of knowledge systems, organizations are faced with cultural differences that are subtle in some areas (such as a common language) while starkly contrasted in other (such as different work habits). This minitrack welcomes all types of papers, conceptual and empirical, using diverse methods to contribute new knowledge and insight into knowledge sharing and utilization in an international/global context.

Potential topics include, but are not limited to:

- Knowledge sharing among international/global team members
- Knowledge sharing and global knowledge systems
- Cultural and social differences in knowledge sharing and utilization
- Implementing global knowledge systems
- Integrating knowledge systems in global/international organizations
- Challenges of sharing and utilizing knowledge in culturally diverse organization
- Knowledge utilization and trust among global team members
- Challenges leadership faces in sharing and using knowledge
- Sharing and utilization knowledge in the global value chain
- Utilization of knowledge collected from different markets/regions
- Measuring knowledge sharing and utilization in global/international organizations
- Practitioner papers on knowledge sharing and utilization in global companies
- Case studies focusing on knowledge sharing and utilization

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Knowledge Society Minitrack

This minitrack solicits manuscripts that present research in progress or completed research that focuses on any or all aspects of a knowledge society. As noted by Castelfranchi (2007) a knowledge society generates, processes, shares and makes available to all members knowledge that may be used to improve the current state. Furthermore, a knowledge society differs from an information society in that the former serves to transform information into resources that allow society to take effective action while the latter only creates and disseminates the raw data. In today’s hypercompetitive business world a critical strategic necessity becomes creating and sustaining knowledge societies. This includes but is not limited to understanding and appreciating the use of cultural or indigenous knowledge in knowledge based systems. Cultural knowledge is that knowledge particular to a subgroup of a population. Understanding cultural knowledge facilitates the exploration of values, beliefs, and behaviors in any culture and provide a perspective for comparing and contrasting cultures. For example in a diverse culture such as the United States there are many sub-cultures with their own knowledge such as ethnic groups, activity focus groups (such as rappers or skate boarders, or organizational sub cultures), or other groups formed on some demographic premise. Indigenous knowledge focuses on that knowledge, frequently contained in oral systems, that has evolved over the time that Native Peoples have inhabited their homelands. For example, Knowledge Systems of outsiders are discussed by indigenous peoples in North America such as Native Americans, First Nations People, and Alaska Natives as 'Western' knowledge.

Potential topics may include (but are not limited to):

- Sustainability of cultural/indigenous knowledge and knowledge societies
- Transfer of cultural/indigenous knowledge (between member and/or outside the group)
- Technology support for cultural/indigenous knowledge systems and knowledge societies
- Identification of cultural/indigenous knowledge
- Representation of cultural/indigenous knowledge
- Elicitation and capture of cultural/indigenous knowledge
- Case studies of cultural/indigenous knowledge groups and/or systems
- Using social media to capture and convey cultural/indigenous knowledge
- Conflicts with cultural/indigenous knowledge (between members, between those in the group and those outside the group)
- Issues in transferring and using cultural/indigenous knowledge by non-members
- Issues (such as retirement, extinction, and/or sublimation) causing the loss of cultural/indigenous knowledge
- Value of cultural/indigenous knowledge

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Managing Knowledge for Innovation and Agility Minitrack

In this century of social media, big data and mobile applications this track focuses on the contribution that KM makes to supporting organizational innovation and strategic agility. As the global economic environment continues to challenge, a fundamental transformation of KM has been taking place in two directions: (1) exploring how the inflows and outflows of knowledge have expanded to accelerate internal innovation and expand the markets for external use of innovation, and (2) how KM is used to support and sustain organizational agility. Both these themes support alternative approach to organizing for innovation and other organizational activities in an open environment with multiple participants and stakeholders. These themes are open to the exploration of the effectiveness of new methods and organizational structures for improving innovation and organizational agility by engaging a broader base of outside knowledge holders and raise important new issues about how knowledge is created and applied to derive business value, generate new ideas, and develop new products and solutions. In line with this challenging research issue, this minitrack solicits papers on the broadest range of research methodologies including case studies, action research, experimentation, survey, and simulation. Possible topics include, but are not limited to:

- Knowledge, complexity and innovation
- Managing knowledge and open innovation models
- Managing knowledge to support organizational agility
- Implementation issues in using KM to support innovation
- KM governance to support organizational aims and objectives
- Innovation in the face of uncertainty
- Managing innovation in a global environment
- The role of knowledge in business agility developing and innovating in products & services.
- Knowledge for organizational adaptation to market and environmental change.
- Knowledge co-creation in communities, markets and open platforms.
- Tools and techniques for managing innovation
- Social media as a KM tool for stimulating and/or supporting innovation
- How management of knowledge contributes to the generation, evaluation and implementation of new products, services, processes and solutions
- KM/KMS support for collaborative and creative work
- Knowledge sharing, diffusion and creativity: the influence of organizational culture and structure
- Managing knowledge exploitation vs. exploration dilemmas
- The use of KM to reduce risk in creative/innovative processes

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Organizational Learning Minitrack

Learning Organizations and Knowledge Organizations need to focus strategically to develop organizational potential. There is a gap between current learning within organizations and their ability to create, acquire, transfer and manage knowledge to remain competitive. The workers within these organizations need to also develop themselves through the acquisition of specialized skills for the work of the future. Strategies for effective knowledge management can be enhanced through well-directed research in these areas.

Contributions from this minitrack of Organizational Learning may include, but are not limited the following topics:

- **Organizational learning in the areas:**
  - Individual, group and organizational learning processes
    - Methods to promote organizational learning
  - Knowledge creation, acquisition, transfer and change
  - Knowledge/Organization adaptation, routines or resistance issues
  - Organizational sense-making
  - Organizational memory or forgetting
  - Promoting a Learning or Knowledge Organizations
    - Innovation, entrepreneurship and technological change

- **Examining Learning and Knowledge Organizations:**
  - Ethical and cultural considerations in the management of knowledge
    - Learning and leader behavior in organizations
  - Virtual and global leadership issues in managing knowledge
    - Learning leaders in global organizations

- **Leadership challenges in knowledge creation, knowledge acquisition, knowledge transfer and knowledge change in organizations**

- **Knowledge worker learning in a learning or knowledge management organization**

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Reports from the Field Minitrack

Knowledge Management is an important issue in order to enhance innovation and competitiveness. Tools and software play an important role; numerous journals focus exclusively on the topic, and several information systems-oriented conferences feature KMS-specific tracks. There is also an active practitioner base of knowledge workers who develop, implement, manage, and use knowledge management systems. As with many areas in information systems, there is often a gulf between the research conducted by the academic community and the needs and experiences of the practitioners.

The goal of this minitrack is to provide a “bridge” between the knowledge management systems practitioner community and the scholars that build theory and conduct research in that domain. The goal will be addressed in the form of case studies that document specific knowledge system successes or failures.

Possible contributions regarding reports from the field in knowledge management may include, but are not limited to the following:

- Best practices in using technology, processes, or personnel to promote:
  - Knowledge creation
  - Knowledge maintenance
  - Storing knowledge
  - Retrieving knowledge
  - Promoting a willingness to contribute to a knowledge repository
  - Promoting a willingness to seek knowledge from a knowledge repository

- Specific challenges encountered and successfully overcome in designing, implementing or using a knowledge management system

- Specific challenges in designing, implementing, or using a knowledge management system that have defied resolution

- Specific challenges to organizational leadership face in knowledge acquisition, distribution, retrieval, retention, and evolution of knowledge workers using a knowledge management system.

- Challenges and opportunities to the research community

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The Organizational Use of IT-Mediated Crowds Minitrack

IT-mediated Crowds are increasingly being implemented by organizations for multifarious purposes, using multifarious techniques. In this minitrack we seek to coalesce a specific and enduring community of IS and IS-related researchers focused first and foremost on the study of the organizational use of IT-mediated Crowds as a phenomenon. Our aim is to harness, and thus focus, the currently very broad inter-disciplinary study of IT-mediated Crowds within the IS discipline proper, and to incite a sharing of results, and a cross-pollination of ideas, among researchers currently looking at IT-mediated Crowd implementations from IS, I-School, HCI, Computer Science, Marketing, Education, and Technology Innovation perspectives.

We encourage new empirical and theoretical submissions investigating these phenomena in a variety of contexts, including:

- Health Care
- Institutional and Strategic perspectives
- Education
- Governance & Policy
- Smart Cities
- Entrepreneurship
- User Innovation & Creative Consumers
- Particular questions/topics of interest include:
  - Human computation, micro-tasking and virtual labour markets
  - Crowdsourced contests, their design and efficacy
  - Gamification in IT-mediated Crowds
  - IT-mediated Crowds and intellectual property
  - IT-mediated Crowds for invention and commercialization
  - Business models of IT-mediated Crowd startups
  - The economics of IT-mediated Crowds
  - IT-mediated Crowds and 3D printing
  - Wearables & Sensors

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Tools and Software for Knowledge Management Minitrack

Knowledge Management is an important issue in order to enhance innovation and competitiveness. Tools and software play an important role in supporting knowledge management processes and in administering the respective data. There are different types of tools and software that can be used to support knowledge management e.g., to access knowledge, for semantic mapping, for knowledge extraction, for expertise localization, for collaborative editing and publishing, for collaborative work, for real time communication, for business process management and for global knowledge management solutions.

This minitrack invites theoretical, empirical and practice-oriented submissions that address important research questions relevant to tools and software in a knowledge management context. Papers that receive excellent reviews may be selected for fast track reviewing in the International Journal of Knowledge Management (IJKM).

Topics of interest include, but are not limited to:
- Requirements analysis for knowledge management tools and software
- Development of tools and software to support knowledge management processes
- Technologies for knowledge management tools and software
- Use and maintenance of knowledge management tools and software
- Tools and software for managing tacit knowledge
- Tools and software to enhance the transition from individual to organisational knowledge
- Adaption of knowledge management tools and software in dynamic environments
- Knowledge management platforms
- Knowledge modeling techniques
- Knowledge taxonomies and typologies (e.g., tacit/explicit, individual/organisational)
- Economic efficiency (e.g., benefit, costs)
- Impact of crowdsourcing, the big data phenomenon and/or the open movement (e.g., open data, open innovation) on knowledge management
- Case studies
- Field reports and best practices
- Trends

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