Risk Management Of Knowledge Loss In Nuclear Industry Organizations

Enterprise Risk Management: Advances on its Foundation and Practice relates the fundamental enterprise risk management (ERM) concepts and current generic risk assessment and management principles that have been influential in redefining the risk field over the last decade. It defines ERM with a particular focus on understanding the nexus between risk, uncertainty, knowledge and performance. The book argues that there is critical need for ERM concepts, principles and methods to adapt to the latest and most influential risk management developments, as there are several issues with outdated ERM theories and practices; problems include the inability to effectively and systematically balance both opportunity and downside performance, or relying too much on narrow probability-based perspectives for risk assessment and decision-making. It expands traditional loss-based risk principles into new and innovative performance-risk frameworks, and presents fundamental risk principles that have recently been developed by the Society for Risk Analysis (SRA). All relevant statistical and risk concepts are clearly explained and interpreted using minimal mathematical notation. The focus of the book is centered around ideas and principles, more than technicalities. The book is primarily intended for risk professionals, researchers and graduate students in the fields of engineering and business, and should also be of interest to executive managers and policy makers with some background in quantitative methods such as statistics.
This book presents a collection of papers under the theme of

multi-hazard early warning and disaster risks. These were selected from the presentations made at the International Symposium on Tsunami and Multi-Hazard Risks, Early Warning and Community Awareness in supporting implementation of the Sendai Framework for Disaster Risk Reduction 2015-2030. This conference aimed to recognize achievements and to highlight work that still needs to be carried out. The conference promoted collaboration among academia, research institutions and disaster management offices, and further encouraged multidisciplinary and multi-sectoral interaction This International Symposium on Multi-Hazard Early Warning and Disaster Risk Reduction provided an important opportunity to reflect upon our progress to date in tackling disaster risk, but also to consider some of the challenges and opportunities that lay ahead of us. A particular focus of this event wasMulti-Hazard Early Warning. During the negotiations for the Sendai Framework, countries and partners highlighted the need to: 1. Continue to invest in, develop, maintain and strengthen people-centred, end-to-end early warning systems; 2. Promote the application of simple and low cost early warning equipment and facilities; 3. Broaden the dissemination channels for early warning information to facilitate early action. Countries also called for the further development of and investment in effective, nationally compatible, regional multi-hazard early warning mechanisms. To address these needs, global Target (g) of the Sendai Framework was adopted, namely to "substantially increase the availability of and access to multi-hazard early warning systems and disaster risk information and assessments to the people by 2030". As illustrated by recent events in Indonesia, it is also vital to address the challenge of cascading hazards that pose a tsunami risk, and the importance of linking tsunami early warning to a multi-hazard environment. However, moving towards a multi-hazard

environment is complex and poses many challenges but can bring significant benefits in terms of efficiencies and also in recognising the links between hazards, such as cascading threats. We very much hope that this book will provide an important platform to address these and other challenges in addressing disaster risk, as well as supporting implementation of the Sendai Framework for Disaster Risk Reduction

"Managing Risk in Sport and Recreation includes numerous forms, checklists, and documentation strategies as well as safety questionnaires for each of the sports covered. This lawyer-created toolkit will help you take the necessary steps to reduce injuries, decrease lawsuits, and pinpoint the strengths and weaknesses in your programs. All of the forms and checklists are also reproduced on a CD-ROM included with the book so you can easily access and use them when needed."--BOOK JACKET.

The industrial workplace should be an environmentally sound and reliable operation with established safety and health policies and practices. Most companies work hard to achieve this goal by having Industrial Safety and Risk Management programs in place. The key benefits of a first-class ISRM program are the reduction of risk to people, environment, assets and production for company personnel, contractors, the public and investors. Professors Wilson and McCutcheon offer an integrated approach to industrial safety and risk management and explain the elements of practice required to manage health, safety and environmental risk effectively. Contributors from industry and government add their expertise to provide a comprehensive examination of issues concerning industrial health, safety and risk management programs; risk assessment and management; causation models and systematic incident investigation; and human factors. Case studies of industrial disasters offer lessons in

how to proactively reduce risks in operations or projects. Industrial Safety and Risk Management provides a solid base for students and industry to implement, manage and improve their understanding and knowledge of safety and risk management programs. It provides an excellent training program for new professionals, junior managers and supervisors working in industry.

The reformed decision on a Union Civil Protection Mechanism, which entered into force on 1 January 2014, paved the way for more resilient communities by including in the mechanism key actions related to disaster prevention, such as developing national risk assessments (NRAs) and refining risk management planning. Under the decision, EU Member States agreed to 'develop risk assessments at national or appropriate sub-national level and make available to the Commission a summary of the relevant elements thereof by 22 December 2015 and every three years thereafter'. The decision also requires Member States, together with the European Commission, to develop guidelines on the content, methodology and structure of risk management capability assessments. The Commission has published risk assessment and risk mapping guidelines to assist Member States with their NRAs. Risk management capability assessment guidelines have also been developed. The recent communication from the Commission, 'Strengthening EU disaster management: rescEU — Solidarity with responsibility', calls on 'Member States and Commission to promote more systematic collection and dissemination of loss data, to enhance the collection of loss data and make use of loss data for optimised prevention and climate adaptation planning'. Systematically collected, comparable and robust disaster damage and loss data are an essential element of the risk assessment and management processes. Thus, the Council of the European Union's

conclusions on risk management capability of 24 September 2014 call on the Commission to 'Encourage the development of systems, models or methodologies for collecting and exchanging data on ways to assess the economic impact of disasters on an all-hazard basis'. Under the current practices in disaster loss data recording across the EU, there are hardly any comparable disaster damage and loss data: differences exist in methods of data recording as well as in governance approaches to managing the data. The lack of standards for damage and loss data collection and recording represents the main challenge for data sharing and comparison, and in particular for cross-border cooperation, within the EU. This report is based on an accurate analysis of several databases developed following a diversified number of purposes to collect, record and aggregate information regarding losses having occurred after a shock triggered by different hazards. The report proposes a common structure for a generic database able to accommodate and properly record the particularities of a vast variety of events triggered by any kind of hazard.

Addressing a need for innovative solutions to challenges facing organisations today, this book explores the concept of Knowledge Risk Management (KRM), outlining how this new approach can be implemented in the banking sector. The author proposes the first knowledge risk framework that is specific to cooperative banks, which aims to improve the accuracy of risk assessment procedures by combining a conventional risk management approach with knowledge management tools and techniques. Including empirical data taken from interviews with employees in the banking sector, this book provides banks with a valuable tool for tackling potentially damaging knowledge-related risks, making it an essential read for those researching risk management and banking.

This international Handbook provides a comprehensive overview of key topics, debates and issues within the now well-established field of Knowledge Management (KM). With contributions from a range of highly-skilled authors, diverse and multi-disciplinary approaches towards KM are explored in this fantastic new reference work. Topics covered include performance, ethics, sustainability and cross-cultural management, making this an equally important read to academics and practitioners working in areas such as technology, education and engineering. By analysing how the field of KM has developed over the years, as well as presenting new methods to be implemented in the workplace, this Handbook outlines a research agenda for the future of organisational learning and innovation.

"This book presents current research in Knowledge Management, highlighting new technologies, approaches, issues, solutions, or cases that can help an organization implement a knowledge management initiative or provide a knowledge base"--Provided by publisher.

An overview of what knowledge management is, the theoretical basis behind it, and practical insights into how it can be implemented effectively in a professional setting. Starting with a discussion of how knowledge management has evolved, how it adds value for organisations, and how it's success can be measured. The book then covers best practice and the key activities associated with doing knowledge management, including knowledge strategy, managing knowledge loss and knowledge sharing. Finishing with a discussion of knowledge management's role in international business and

what future developments are expected in the field. Practical insights are drawn from around the world, with case studies such as how NASA forgot how to send a man to the Moon, Acer: The smiling Asian tiger, and why Saudi Arabia's experts do not learn from overseas experts. The book is supported by online resources for lecturers and students, including PowerPoint slides, an instructor's manual, access to SAGE journal articles, and scorecards for measuring usefulness of knowledge management tools. Suitable reading for undergraduate and postgraduate business and management students on knowledge management & organizational learning modules.

"Operating across international markets is a highly turbulent affair that imposes real challenges on corporate risk management capabilities. The multinational corporation is exposed to many diverse risks and exogenous influences beyond managerial control but also attain new strategic opportunities. The exposures range from price volatilities, changing macroeconomic conditions, and operational disruptions to technological innovations, competitive moves, and socio-political events. Strategic risk management can reduce the adverse effects from these exposures but may also furnish gains from new opportunities. This book relates to the need for effective strategic risk management practices that facilitate the ability to monitor essential exposures

and respond appropriately to changing environmental conditions. "

This book renders help for self-help. It provides a valuable contribution to the promotion of captives as a new insurance phenomenon in the area of risk management. It does so by helping to identify potentials of captive as a strategic instrument for risk management. The result is aimed at providing a good information base for individuals who are already involved with captive insurance and those interested in it.

Executives today recognize that their firms face a wave of retirements over the next decade as the baby boomers hit retirement age. At the other end of the talent pipeline, the younger workforce is developing a different set of values and expectations, which creates new recruiting and employee retention issues. The evolution from an older, traditional, highly-experienced workforce to a younger, more mobile, employee base poses significant challenges, particularly when considered in the context of the long-term orientation towards downsizing and cost cutting. This is a solution-oriented book to address one of the most pressing management problems of the coming years: How do organizations transfer the critical expertise and experience of their employees before that knowledge walks out the door? It begins by outlining the broad issues and providing tools for developing a

knowledge-retention strategy and function. It then goes on to outline best practices for retaining knowledge, including knowledge transfer practices, using technology to enable knowledge retention, retaining older workers and retirees, and outsourcing lost capabilities.

This publication provides a methodology to enable knowledge loss risk management to ensure safe, reliable and efficient operation of nuclear facilities. It focuses on aspects of knowledge loss risks associated with employee attrition and provides guidance to mitigate them. The described methodology has proved itself in nuclear power plants and can be adopted by any other nuclear related organization. The publication also provides examples of best practices (case studies) of effective knowledge loss risk management gathered from the nuclear power plants and nuclear related organizations as outlined in annexes I-V.

This book contains a selection of articles from The 2013 World Conference on Information Systems and Technologies (WorldCIST'13), a global forum for researchers and practitioners to present and discuss the most recent innovations, trends, results, experiences and concerns in the several perspectives of Information Systems and Technologies. The main topics covered are: Information and Knowledge Management; Organizational Models and Information Systems;

Intelligent and Decision Support Systems; Software Systems, Architectures, Applications and Tools; Computer Networks, Mobility and Pervasive Systems; Radar Technologies; and Human-Computer Interaction.

This book offers a hands-on approach to prepare businesses for managing the impact of technology transformation by the pragmatic, consistent, and persistent application of proven business principles and practices. Technology is rapidly transforming our businesses and our society. Knowledge worker roles are being impacted, and as operations are being automated, business models are changing as the use of cloud-based services lowers costs and provides flexibility. This book provides a guide towards managing the environment of uncertainly caused by the rapid changes in technology by combining strategy and leadership to influence the environment, instil the right behaviours, and strengthen the skills that will enable businesses to be adaptive, responsive, and resilient.

With the rising importance of knowledge as a primary factor in global industries, it is increasingly necessary for knowledge management professionals to understand, engage with, and speak the language of investments and auditing. This exciting guide helps knowledge management professionals educate themselves on these topics.

This book provides an in-depth introduction to knowledge

risk management (KRM) as well as methods, tools and cases to address knowledge risk management issues in both the public and private sector. It focuses on the integration of knowledge risks into the holistic risk management of organizations. In addition, this book is accompanied by an external website that includes additional checklists, videos and company cases. The combination of a sound theoretical framework along with practical instruments, tools and ancillary materials makes this book a unique, interactive book for professionals, managers, and executives as well as students, academics and policy makers.

Using examples from companies such as Home Depot, Airbus, Boeing, and Nokia, Fundamentals of Enterprise Risk Management takes a fresh look at one of the hottest topics in business today. Showing readers in charge of monitoring operational exposures in corporations, nonprofit organizations, and government agencies how they can best determine and balance opportunities against the possibilities of loss, this book provides clear strategies to help readers: • recognize both internal and external exposures • understand important concepts such as risk mapping and risk identification • recognize the weaknesses of current ERM systems • align risk opportunities with their organization's business model • stay in line with Sarbanes-Oxley compliance The book introduces innovative new concepts such as hierarchical risk structures, alignment of risks with the business model, creation of a central risk function, and the role of an ERM knowledge warehouse. Featuring enlightening case studies and practical exercises, this essential book

shows readers how they can implement ERM the right way at their organizations.

Essential insights on the various aspects of enterprise risk management If you want to understand enterprise risk management from some of the leading academics and practitioners of this exciting new methodology, Enterprise Risk Management is the book for you. Through in-depth insights into what practitioners of this evolving business practice are actually doing as well as anticipating what needs to be taught on the topic, John Fraser and Betty Simkins have sought out the leading experts in this field to clearly explain what enterprise risk management is and how you can teach, learn, and implement these leading practices within the context of your business activities. In this book, the authors take a broad view of ERM, or what is called a holistic approach to ERM. Enterprise Risk Management introduces you to the wide range of concepts and techniques for managing risk in a holistic way that correctly identifies risks and prioritizes the appropriate responses. This invaluable guide offers a broad overview of the different types of techniques: the role of the board, risk tolerances, risk profiles, risk workshops, and allocation of resources, while focusing on the principles that determine business success. This comprehensive resource also provides a thorough introduction to enterprise risk management as it relates to credit, market, and operational risk, as well as the evolving requirements of the rating agencies and their importance to the overall risk management in a corporate setting. Filled with helpful tables and charts, Enterprise Risk Management offers a wealth of

knowledge on the drivers, the techniques, the benefits, as well as the pitfalls to avoid, in successfully implementing enterprise risk management. Discusses the history of risk management and more recently developed enterprise risk management practices and how you can prudently implement these techniques within the context of your underlying business activities Provides coverage of topics such as the role of the chief risk officer, the use of anonymous voting technology, and risk indicators and their role in risk management Explores the culture and practices of enterprise risk management without getting bogged down by the mathematics surrounding the more conventional approaches to financial risk management This informative guide will help you unlock the incredible potential of enterprise risk management, which has been described as a proxy for good management. A framework for formalizing risk management thinking intoday¿s complex business environment Security Risk Management Body of Knowledge details thesecurity risk management process in a format that can easily beapplied by executive managers and security risk managementpractitioners. Integrating knowledge, competencies, methodologies,and applications, it demonstrates how to document and incorporatebest-practice concepts from a range of complementarydisciplines. Developed to align with International Standards for RiskManagement such as ISO 31000 it enables professionals to applysecurity risk management (SRM) principles to specific areas ofpractice. Guidelines are provided for: Access

Management; BusinessContinuity and Resilience; Command, Control, and Communications;Consequence Management and Business Continuity Management;Counter-Terrorism; Crime Prevention through Environmental Design;Crisis Management; Environmental Security; Events and MassGatherings; Executive Protection; Explosives and Bomb Threats;Home-Based Work; Human Rights and Security; Implementing SecurityRisk Management; Intellectual Property Protection; IntelligenceApproach to SRM; Investigations and Root Cause Analysis; MaritimeSecurity and Piracy; Mass Transport Security; OrganizationalStructure; Pandemics; Personal Protective Practices; Psych-ology ofSecurity; Red Teaming and Scenario Modeling; Resilience andCritical Infrastructure Protection; Asset-, Function-, Project-,and Enterprise-Based Security Risk Assessment; SecuritySpecifications and Postures; Security Training; Supply ChainSecurity; Transnational Security; and Travel Security. Security Risk Management Body of Knowledge is supportedby a series of training courses, DVD seminars, tools, andtemplates. This is an indispensable resource for risk and securityprofessional, students, executive management, and line managerswith security responsibilities.
'This is an immensely useful and important book. By applying sustainability theory and practice to all areas of business management for firms of all sizes it has the potential to make a significant difference to the long term viability of businesses and the societies in which they operate.' – Juliet Roper, The University of Waikato, New

Zealand Recent surveys of international CEOs confirm that companies increasingly see sustainability as critical to their business strategy. The rigorous academic framework for the field of sustainable business required to respond to this need is now emerging. This book presents important new work in the theory of the sustainable firm, in the application of sustainability principles to key management disciplines, in sustainable business in practice, and in the international challenges that are critical to sustainability demands. Sustainable Business will prove invigorating for both undergraduate and graduate students on business, society and sustainability themed courses. Policymakers and practitioners will find the urgent global sustainability issues and sub-disciplines essential.

This book explores various paradigms of risk, domain-specific interpretation, and application requirements and practices driven by mission and safety critical to business and service entities. The chapters fall into four categories to guide the readers with a specific focus on gaining insight into discipline-specific case studies and state of practice. In an increasingly intertwined global community, understanding, evaluating, and addressing risks and rewards will pave the way for a more transparent and objective approach to benefiting from the promises of advanced technologies while maintaining awareness and control over hazards and risks. This book is conceived to inform decision-makers and practitioners of best practices across many disciplines and sectors while encouraging innovation towards a holistic approach to risk in their areas of professional practice.

The life cycle of companies and enterprises, at present, is short-lived due to rapid social and technological changes. Despite the growing awareness on the importance of knowledge management (KM) among academic researchers, it is still not widely practiced in industry. Why is this?

Maintaining nuclear competencies in the nuclear industry and nuclear regulatory authorities will be one of the most critical challenges in the near future. As many nuclear experts around the world are retiring, they are taking with them a substantial amount of knowledge and corporate memory. The loss of such employees who hold knowledge critical to both operations and safety poses a clear internal threat to the safe and reliable operation of nuclear facilities. This publication is intended for senior and middle level managers of nuclear industry operating organizations and provides practical information on knowledge loss risk management. The information provided in this publication is based upon actual experiences of member state operating organizations and is intended to increase awareness of the need to develop a strategic approach and action plans to address the potential loss of critical knowledge and skills; to provide processes and, in conducting risk assessments, to determine the potential for loss of critical knowledge caused by the loss of experienced workers; and to enable nuclear organizations to utilize this knowledge to improve the skill and competence of new and existing workers. --Publisher's description.

No matter the industry, the development of information technologies has transformed how information is distributed

and used to predict trends. Collecting and identifying the most vital information, however, requires constant management and manipulation. Current Issues and Trends in Knowledge Management, Discovery, and Transfer is an essential reference source that discusses crucial practices for collaborating and distributing work as well as validating accrued knowledge from real-time data. Featuring research on topics such as dynamic knowledge, management systems, and sharing behavior, this book is ideally designed for academics, researchers, librarians, managing professionals, and students seeking coverage on knowledge acquisition and implementation across systems.

The range of problems that arise due to violence, mental health problems, substance abuse and familial breakup require fast accurate risk assessment. These two volumes by Kemshall and Pritchard explores the techniques needed to solve such problems.

Across a variety of disciplines, data and statistics form the backbone of knowledge. To ensure the reliability and validity of data, appropriate measures must be taken in conducting studies and reporting findings. Research Methods: Concepts, Methodologies, Tools, and Applications compiles chapters on key considerations in the management, development, and distribution of data. With its focus on both fundamental concepts and advanced topics, this multi-volume reference work will be a valuable addition to researchers, scholars, and students of science, mathematics, and engineering.

The best thinking and actions in the fast-moving arena of collaboration and knowledge management The New Edge in Knowledge captures the most practical and innovative practices to ensure organizations have the knowledge they need in the future and, more importantly, the ability to connect the dots and use knowledge to succeed today. Build or retrofit your organization for new ways of working and

collaboration by using knowledge management Adapt to today's most popular ways to collaborate such as social networking Overcome organization silos, knowledge hoarding and "not invented here" resistance Take advantage of emerging technologies and mobile devices to build networks and share knowledge Identify what can be learned from Facebook, Twitter, Google and Amazon to make firms and people smarter, stronger and faster Straightforward and easy-to-follow, this is the resource you'll turn to again and again to get-and stay-in the know. Plus, the book is filled with real-world examples – the case studies and snapshots of how best practice companies are achieving success with knowledge management. Praise for The New Edge in Knowledge: How Knowledge Management is Changing the Way We Do Business "You may think you know knowledge management, but this is new—how knowledge initiatives can incorporate social media, mobile technologies, and learning, for example. This book integrates the new knowledge management with the best of the old, such as communities of practice and measurement. KM still matters, and this book tells you why." —Thomas H. Davenport, President's Distinguished Professor of IT and Management, Babson College "Over the last decade, knowledge management has emerged as a key success factor for the modern corporation, driven by tremendous advances in business analytics. This book studies the best practices in knowledge management and how leadership companies are applying them today." —Virginia M. Rometty, Senior Vice President and Group Executive Sales, Marketing and Strategy, IBM "APQC has been on the leading edge of knowledge management for almost two decades. O'Dell and Hubert have captured those best practices and created a road map to transform the way people work. Reap the benefits of their experience." —C. Jackson Grayson, Chairman and Founder, APQC and co-

author of If Only We Knew What We Know "The New Edge in Knowledge is a useful how-to manual that takes best practice sharing and organizational capability building to the next level: Web 2.0, social networking, mobility, and communities of practice. National and international examples show how companies can create strategic alignment and systematic management to transfer knowledge rapidly and effectively." —Rosabeth Moss Kanter, Harvard Business School professor and author of SuperCorp: How Vanguard Companies Create Innovation, Profits, Growth, and Social Good "What has made our KM program strong is sticking to the fundamentals-- that's exactly what this book outlines. It provides trusted advisor guidance on how any company or organization can take the concrete steps to create and implement a world class KM strategy." —Dan Ranta, Director of Knowledge Sharing, ConocoPhillips "Carla O'Dell and Cindy Hubert have written an amazingly down to earth, useful and practical book on knowledge management and its importance to modern business. Starting with the distinction between information and knowledge, they provide a viewpoint that leaves IT in the dust. Read it to prepare for tomorrow's world!" —A. Gary Shilling, President, A. Gary Shilling & Co., Inc. "A practical business approach to knowledge management, this book covers KM's value proposition for any organization, provides proven strategies and approaches to make it work, shares how to measure KM's impact, and illustrates high level knowledge sharing with wonderful case studies. Well done!" —Jane Dysart, Conference Chair, KMWorld & Partner, Dysart & Jones Associates "This book is a tour de force in the field of knowledge management. Read every single page and learn about best practices from the leading firms around the world. All of this and more from the company that leads the way in the field: APQC. I highly recommend it for your bookshelf." —Dr. Nick Bontis, Director, Institute for Intellectual

Capital Research "Food for thought from two of the pioneers. Carla O'Dell and Cindy Hubert have been in the trenches with many of the organizations that have succeeded in leveraging KM for business benefit. They recognized early the symbiotic relationship between knowledge flow and work flow and have guided practitioners in the quest to optimize and streamline both." — Reid Smith, Enterprise Content Management Director, Marathon Oil Company "Carla O'Dell and Cindy Hubert take knowledge management from vague idea to strategic enabler. In so doing, they clear up the not only the whats, but the whys and the hows. This book establishes knowledge management as an organizational discipline. The authors offer a straightforward set of execution steps, coaching readers on how to launch their own knowledge management programs in a deliberate and rigorous way." —Jill Dyché, Partner and Co-Founder, Baseline Consulting; Author of Customer Data Integration: Reaching a Single Version of the Truth "The authors and APQC have put together an excellent 'how to' manual for Knowledge Management (KM) that can benefit any organization, from those experienced in KM to those just starting. The authors have taken their years of experience and excellence in this field and written a masterful introduction and design manual that incorporates industry best-practices and alerts readers to the pitfalls they are likely to encounter. This book needs to be in the hands of every KM professional and corporate senior leader." —Ralph Soule, a member of the US Navy Effective risk management is essential for the success of large projects built and operated by the Department of Energy (DOE), particularly for the one-of-a-kind projects that characterize much of its mission. To enhance DOE's risk management efforts, the department asked the NRC to prepare a summary of the most effective practices used by leading owner organizations. The study's primary objective

was to provide DOE project managers with a basic understanding of both the project ownerâ€™s risk management role and effective oversight of those risk management activities delegated to contractors.
When in 1986 Yves Kodrato? started the European Working Session on Le- ning at Orsay, France, it could not be foreseen that the conference would grow year by year and become the premier European conference of the ?eld, attr- ting submissions from all over the world. The ?rst European Conference on Principles of Data Mining and Knowledge Discovery was organized by Henryk Jan Komorowskiand Jan Zytkowin 1997 in Trondheim, Norway. Since 2001the two conferences have been collocated, o?ering participants from both areas the opportunity to listen to each other's talks. This year, the integration has moved even further. Instead of ?rst splitting the ?eld according to ECML or PKDD topics, we ?attened the structure of the ?eld to a single set of topics. For each of the topics, experts were invited to the Program Committee. Submitted papers were gathered into one collection and characterized according to their topics. The reviewers were then asked to bid on all papers, regardlessof the conference. This allowed us to allocate papers more precisely. The hierarchical reviewing process as introduced in 2005 was continued. We nominated30AreaChairs,eachsuper visingthereviewsanddiscussionsofabout 17 papers. In addition, 307 reviewers completed the ProgramCommittee. Many thanks to all of them! It was a considerable e?ort for the reviewers to carefully review the papers, some providing us with additional reviews even at short - tice.
The University of Jyvaskyla is proud to welcome the 12th edition of the European Conference in Cyber Warfare to Jyvaskyla. We intend to make this event as enjoyable as possible both on scientific and human aspects. As in previous years, ECCWS will address elements of both theory and

practice of all aspects of Information Warfare and Security, and offers an opportunity for academics, practitioners and consultants involved in these areas to come together and exchange ideas. We also wish to attract operational papers dealing with the critical issue that the modern world has to face regarding the evolution of cyberwarfare capabilities development by nation states. The programme for the event promises an extensive range of peer-reviewed papers, networking opportunities and presentations from leaders in the field."

The world is moving into a new era of the knowledge economy. In the past decade, the significance of developing knowledge has grown to a level where it is now dominating other socio-economic factors. Systems Approaches to Knowledge Management, Transfer, and Resource Development provides a new view of knowledge management through the lens of systems approach, which looks at each part of the knowledge management system as a section of the full overview. This cutting-edge resource will be essential for academicians, scientists, practitioners, and industry professionals as all of these individuals work toward a new understanding of knowledge and information management practices in the 21st century.

Fundamentals of Risk Management, now in its fourth edition, is a comprehensive introduction to commercial and business risk for students and a broad range of risk professionals. Providing extensive coverage of the core frameworks of business continuity planning, enterprise risk management and project risk management, this is the definitive guide to dealing with the different types of risk an organization faces. With relevant international case examples from both the private and public sectors, this revised edition of Fundamentals of Risk

Management is completely aligned to ISO 31000 and
provides a full analysis of changes in contemporary risk
areas including supply chain, cyber risk, risk culture and
improvements in risk management documentation and
statutory risk reporting. This new edition of
Fundamentals of Risk Management has been fully
updated to reflect the development of risk management
standards and practice, in particular business continuity
standards, regulatory developments, risks to reputation
and the business model, changes in enterprise risk
management (ERM), loss control and the value of
insurance as a risk management method. Also including
a thorough overview of the international risk
management standards and frameworks, strategy and
policy, this book is the definitive professional text for risk
managers.
Models and methods for operational risks assessment
and mitigation are gaining importance in financial
institutions, healthcare organizations, industry,
businesses and organisations in general. This book
introduces modern Operational Risk Management and
describes how various data sources of different types,
both numeric and semantic sources such as text can be
integrated and analyzed. The book also demonstrates
how Operational Risk Management is synergetic to other
risk management activities such as Financial Risk
Management and Safety Management. Operational Risk
Management: a practical approach to intelligent data
analysis provides practical and tested methodologies for
combining structured and unstructured, semantic-based
data, and numeric data, in Operational Risk

Management (OpR) data analysis. Key Features: The book is presented in four parts: 1) Introduction to OpR Management, 2) Data for OpR Management, 3) OpR Analytics and 4) OpR Applications and its Integration with other Disciplines. Explores integration of semantic, unstructured textual data, in Operational Risk Management. Provides novel techniques for combining qualitative and quantitative information to assess risks and design mitigation strategies. Presents a comprehensive treatment of "near-misses" data and incidents in Operational Risk Management. Looks at case studies in the financial and industrial sector. Discusses application of ontology engineering to model knowledge used in Operational Risk Management. Many real life examples are presented, mostly based on the MUSING project co-funded by the EU FP6 Information Society Technology Programme. It provides a unique multidisciplinary perspective on the important and evolving topic of Operational Risk Management. The book will be useful to operational risk practitioners, risk managers in banks, hospitals and industry looking for modern approaches to risk management that combine an analysis of structured and unstructured data. The book will also benefit academics interested in research in this field, looking for techniques developed in response to real world problems.
Software engineering requires specialized knowledge of a broad spectrum of topics, including the construction of software and the platforms, applications, and environments in which the software operates as well as an understanding of the people who build and use the

software. Offering an authoritative perspective, the two volumes of the Encyclopedia of Software Engineering cover the entire multidisciplinary scope of this important field. More than 200 expert contributors and reviewers from industry and academia across 21 countries provide easy-to-read entries that cover software requirements, design, construction, testing, maintenance, configuration management, quality control, and software engineering management tools and methods. Editor Phillip A. Laplante uses the most universally recognized definition of the areas of relevance to software engineering, the Software Engineering Body of Knowledge (SWEBOK®), as a template for organizing the material. Also available in an electronic format, this encyclopedia supplies software engineering students, IT professionals, researchers, managers, and scholars with unrivaled coverage of the topics that encompass this ever-changing field. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367; (E-mail) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062; (E-mail) online.sales@tandf.co.uk
Risk Management of Knowledge Loss in Nuclear Industry OrganizationsIAEA

Knowledge management promises concepts and instruments that help organizations support knowledge creation, sharing and application. This book offers a comprehensive account of the many facets, concepts and theories that have influenced knowledge management and integrates them into a framework consisting of strategy, organization, systems and economics guiding the design of successful initiatives. The third edition extends coverage of the two pillars of implementing knowledge management initiatives, organization and systems.

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