

## Innovating In Cyber Security Tno Innovation For Life

As modern organizations become more globalized and diverse, they require additional assistance to maintain effective workflows. With the support of intermediary partners, businesses can enhance their various management processes. Global Intermediation and Logistics Service Providers is a comprehensive reference source for the latest scholarly material on outsourcing strategies in contemporary business environments and examines the role of intermediaries in the dynamics of decision-making and process management. Highlighting pivotal discussions across a myriad of relevant topics, such as open innovation, competitive advantage, and social capital, this book is ideally designed for professionals, practitioners, researchers, and students interested in the impact of service providers within industrial organizations.

This book reports on the latest research and developments in the field of cybersecurity, particularly focusing on personal security and new methods for reducing human error and increasing cyber awareness, as well as innovative solutions for increasing the security of advanced Information Technology (IT) infrastructures. It covers a broad range of topics, including methods for human training; novel cyber-physical and process-control systems; social, economic, and behavioral aspects of cyberspace; issues concerning the cybersecurity index; security metrics for enterprises; and risk evaluation. Based on the AHFE 2019 International Conference on Human Factors in Cybersecurity, held on July 24-28, 2019, in Washington D.C., USA, the book not only presents innovative cybersecurity technologies, but also discusses emerging threats, current gaps in the available systems, and future challenges that may be successfully overcome with the help of human factors research.

Over the years, a plethora of reports has emerged that assess the causes, dynamics, and effects of cyber threats. This proliferation of reports is an important sign of the increasing prominence of cyber attacks for organizations, both public and private, and citizens all over the world. In addition, cyber attacks are drawing more and more attention in the media. Such efforts can help to better awareness and understanding of cyber threats and pave the way to improved prevention, mitigation, and resilience. This report aims to help in this task by assessing what we know about cyber security threats based on a review of 70 studies published by public authorities, companies, and research organizations from about 15 countries over the last few years. It answers the following questions: what do we know about the number, origin, and impact of cyber attacks? What are the current and emerging cyber security trends? And how well are we prepared to face these threats?

The Department of Electrical Engineering-ESAT at the Katholieke Universiteit Leuven regularly runs a course on the state of the art and evolution of computer security and industrial cryptography. The first course took place in 1983, the second in 1989, and since then the course has been a biennial event. The course is intended for both researchers and practitioners from industry and government. It covers the basic principles as well as the most recent developments. Our own interests mean that the course emphasizes cryptography, but we also ensure that the most important topics in computer security are covered. We try to strike a good balance between basic theory and real-life applications, between mathematical background and judicial aspects, and between recent technical developments and standardization issues. Perhaps the greatest strength of the course is the creation of an environment that enables dialogue between people from diverse professions and backgrounds. In 1993, we published the formal proceedings of the course in the Lecture Notes in Computer Science series (Volume 741). Since the field of cryptography has advanced considerably during the interim period, there is a clear need to publish a new edition. Since 1993, several excellent textbooks and handbooks on cryptology have been published and the need for introductory-level papers has decreased. The growth of the main conferences in cryptology (Eurocrypt, Crypto, and Asiacrypt) shows that interest in the field is increasing.

This book throws a spotlight on innovation across the software universe, setting out key issues and highlighting policy perspectives. It spans research and development, invention, production, distribution and use of software in the market.

What are the challenges that small countries face concerning innovation and what are the effects of globalization on their innovation systems? In this very interesting, rich and timely book, Edquist and Hommen compare ten different small national innovation systems from the Asia Pacific and Northern Europe that are rather advanced in their development. The answers that the authors give are convincing and relate not only to the unique characteristics of each national system that shapes innovative activity, but also to some commonalities that exist across these countries. Franco Malerba, Bocconi University, Italy This major book presents case studies of ten small country national systems of innovation (NSIs) in Europe and Asia, namely, Denmark, Finland, Hong Kong, Ireland, the Netherlands, Norway, Singapore, South Korea, Sweden and Taiwan. These cases have been carefully selected as examples of success within the context of globalization and as new economies where competition is increasingly based on innovation. To facilitate comparative analysis the ten studies follow a common structure, informed by an activities-based approach to describing and analysing NSIs, which addresses the critical issues of globalization and the consequences of innovation for economic performance. The final chapter compares fast growth and slow growth countries, concentrating on issues of innovation policy. The results illustrate the usefulness of an activities-based approach to studying NSIs, point to distinctive national roles within an increasingly differentiated international division of labour and address the key themes of selectivity and coordination in innovation policy. This valuable book presents one of the most significant, comprehensive and comparative country studies of NSIs in the last decade. It will have great import and should be widely read by every serious student and scholar of innovation studies.

This open access book offers an analysis of why preparations for digital disruption should become a stated goal of security policy and policies that aim to safeguard the continuity of critical infrastructure. The increasing use of digital technology implies new and significant vulnerabilities for our society. However, it is striking that almost all cyber-security measures taken by governments, international bodies and other major players are aimed at preventing incidents. But there is no such thing as total digital security. Whether inside or outside the digital domain, incidents can and will occur and may lead to disruption. While a raft of provisions, crisis contingency plans and legal regulations are in place to deal with the possibility of incidents in the 'real world', no equivalence exists for the digital domain and digital disruption. Hence, this book uniquely discusses several specific policy measures government and businesses should take in

order to be better prepared to deal with a digital disruption and prevent further escalation.

With the growth of information technology, many new communication channels and platforms have emerged. This growth has advanced the work of crowdsourcing, allowing individuals and companies in various industries to coordinate efforts on different levels and in different areas. Providing new and unique sources of knowledge outside organizations enables innovation and shapes competitive advantage. *Crowdsourcing: Concepts, Methodologies, Tools, and Applications* is a collection of innovative research on the methods and applications of crowdsourcing in business operations and management, science, healthcare, education, and politics. Highlighting a range of topics such as crowd computing, macrotasking, and observational crowdsourcing, this multi-volume book is ideally designed for business executives, professionals, policymakers, academicians, and researchers interested in all aspects of crowdsourcing.

This volume brings together papers that offer methodologies, conceptual analyses, highlight issues, propose solutions, and discuss practices regarding privacy and data protection. It is one of the results of the eight annual International Conference on Computers, Privacy, and Data Protection, CPDP 2015, held in Brussels in January 2015. The book explores core concepts, rights and values in (upcoming) data protection regulation and their (in)adequacy in view of developments such as Big and Open Data, including the right to be forgotten, metadata, and anonymity. It discusses privacy promoting methods and tools such as a formal systems modeling methodology, privacy by design in various forms (robotics, anonymous payment), the opportunities and burdens of privacy self management, the differentiating role privacy can play in innovation. The book also discusses EU policies with respect to Big and Open Data and provides advice to policy makers regarding these topics. Also attention is being paid to regulation and its effects, for instance in case of the so-called 'EU-cookie law' and groundbreaking cases, such as *Europe v. Facebook*. This interdisciplinary book was written during what may turn out to be the final stages of the process of the fundamental revision of the current EU data protection law by the Data Protection Package proposed by the European Commission. It discusses open issues and daring and prospective approaches. It will serve as an insightful resource for readers with an interest in privacy and data protection.

This book covers the security and safety of CBRNE assets and management, and illustrates which risks may emerge and how to counter them through an enhanced risk management approach. It also tackles the CBRNE-Cyber threats, their risk mitigation measures and the relevance of raising awareness and education enforcing a CBRNE-Cy security culture. The authors present international instruments and legislation to deal with these threats, for instance the UNSCR1540. The authors address a multitude of stakeholders, and have a multidisciplinary nature dealing with cross-cutting areas like the convergence of biological and chemical, the development of edging technologies, and in the cyber domain, the impelling risks due to the use of malwares against critical subsystems of CBRN facilities. Examples are provided in this book. Academicians, diplomats, technicians and engineers working in the chemical, biological, radiological, nuclear, explosive and cyber fields will find this book valuable as a reference. Students studying in these related fields will also find this book useful as a reference.

*Safety, Reliability and Risk Analysis. Theory, Methods and Applications* contains the papers presented at the joint ESREL (European Safety and Reliability) and SRA-Europe (Society for Risk Analysis Europe) Conference (Valencia, Spain, 22-25 September 2008). The book covers a wide range of topics, including: Accident and Incident Investigation; Crisi

"A Practical Introduction to Homeland Security and Emergency Management: From Home to Abroad serves as an extremely versatile, useful and timely addition to the homeland security field." - Jason Levy, Virginia Commonwealth University *A Practical Introduction to Homeland Security and Emergency Management: From Home to Abroad* offers a comprehensive overview of the homeland security field, examining topics such as counter-terrorism, border and infrastructure security, and emergency management. Authors Bruce Newsome and Jack Jarmon take a holistic look at the issues and risks, their solutions, controls, and countermeasures, and their political and policy implications. They also demonstrate through cases and vignettes how various authorities, policymakers and practitioners seek to improve homeland security. The authors evaluate the current practices and policies of homeland security and emergency management and provide readers with the analytical framework and skills necessary to improve these practices and policies.

This volume examines the relationship between privacy, surveillance and security, and the alleged privacy–security trade-off, focusing on the citizen's perspective. Recent revelations of mass surveillance programmes clearly demonstrate the ever-increasing capabilities of surveillance technologies. The lack of serious reactions to these activities shows that the political will to implement them appears to be an unbroken trend. The resulting move into a surveillance society is, however, contested for many reasons. Are the resulting infringements of privacy and other human rights compatible with democratic societies? Is security necessarily depending on surveillance? Are there alternative ways to frame security? Is it possible to gain in security by giving up civil liberties, or is it even necessary to do so, and do citizens adopt this trade-off? This volume contributes to a better and deeper understanding of the relation between privacy, surveillance and security, comprising in-depth investigations and studies of the common narrative that more security can only come at the expense of sacrifice of privacy. The book combines theoretical research with a wide range of empirical studies focusing on the citizen's perspective. It presents empirical research exploring factors and criteria relevant for the assessment of surveillance technologies. The book also deals with the governance of surveillance technologies. New approaches and instruments for the regulation of security technologies and measures are presented, and recommendations for security policies in line with ethics and fundamental rights are discussed. This book will be of much interest to students of surveillance studies, critical security studies, intelligence studies, EU politics and IR in general. A PDF version of this book is available for free in open access via [www.tandfebooks.com](http://www.tandfebooks.com). It has been made available under a Creative Commons Attribution-Non Commercial 3.0 license.

The marriage of computers and telecommunications, the global integration of these technologies and their availability at low cost is bringing about a fundamental transformation in the way humans communicate and interact. But however much consensus there may be on the growing importance of information technology today, agreement is far more elusive when it comes to pinning down the impact of this development on security issues. Written by scholars in international relations, this volume focuses on the role of the state in defending against cyber threats and in securing the information age. The manuscript is captivating with the significance and actuality of the issues discussed and the logical, knowledgeable and engaged presentation of the issues. The essays intrigue and provoke with a number of 'fresh' hypotheses, observations and suggestions, and they contribute to mapping the diverse layers, actors, approaches and policies of the cyber security realm.

This book provides a comprehensive overview of the fundamental security of Industrial Control Systems (ICSs), including Supervisory Control and Data Acquisition (SCADA) systems and touching on cyber-physical systems in general. Careful attention is given to providing the reader with clear and comprehensive background and reference material for each topic pertinent to ICS security. This book offers answers to such questions as: Which specific operating and security issues may lead to a loss of efficiency and operation? What methods can be used to monitor and protect my system? How can I design my system to reduce threats? This book offers chapters on ICS cyber threats, attacks, metrics, risk, situational awareness, intrusion detection, and security testing, providing an advantageous reference set for current system owners who wish to securely configure and operate their ICSs. This book is appropriate for non-specialists as well. Tutorial information is provided in two initial chapters and in the beginnings of other chapters as needed. The book concludes with advanced topics on ICS governance, responses to attacks on ICS, and future security of the Internet of Things.

The report is structured so as to achieve three objectives: 1 to introduce the reader to the security context in which HSD operates; 2 to provide an overview of where HSD stands and what its assets are; and 3 to show directions for development of the cluster and opportunities to reinforce its mission: to bring together triple-helix-partners with the aim to achieve synergies, bring economic benefits to the Netherlands as a hub for security innovation, and, ultimately, to generate security and economic benefits for society as a whole. The first part of the report starts out by describing what is meant by security, how thinking about security has evolved, and how ever more vital aspects of our daily lives have become part of the security realm. It then briefly surveys some key themes of security, showing how they are interlinked. Subsequently, we survey how these various security themes are currently incorporated in our national security strategies, and reflect on the priorities that are set by the government, but also within civil society, the business world and among citizens. The second part focuses on The Hague Security Delta: what makes it well-equipped to deal with the security challenges that were described in the first part? Where can it make the most meaningful contributions and produce the most value-added, and how is it positioning itself to capitalise on existing and potential opportunities? Subsequently, we investigate some of these opportunities by focusing on how other security clusters have evolved and by highlighting some innovation projects and initiatives that HSD partners and others are engaged in. Finally, some of the highest potential projects are highlighted that can help consolidate or expand the reach of HSD, and help to improve security provision in a way that adds value to our economy and society alike. The conclusion will recap the objectives of HSD and provide some highlights from its 2015 agenda.

The probability of a world-wide cyber conflict is small. Yet the probability of forms of cyber conflict, regional or even global, could be argued as being very high. Small countries are usually signatories to military and economic alliances with major world powers but rely heavily on the technical ability of these powers in protecting their own national interests. They may be considered to be IT 'technology colonies'. Their cyber infrastructure is usually fully imported and their ability to assess it is limited. This book poses the question: to what extent should, or can, a small country prepare itself for handling the broad range of cyber threats? Looking at cyber-warfare, cyber-terrorism, cyber-crime and associated concerns, national experts from New Zealand, Australia, The Netherlands, and Poland present analyses of cyber-defence realities, priorities and options for smaller countries. They show that what is needed is the ability of small nations to be able to define and prepare appropriate responses such as the role of military/law enforcement/business entities, continuity and resilience strategies, incident response and business continuity plans and more for handling nationally-aimed cyber-attacks particularly where these address national critical infrastructures.

An inventory of protection policies in eight countries.

This is the sixth volume of a sub series on Road Vehicle Automation published within the Lecture Notes in Mobility. The contents have been provided by researchers, engineers and analysts from all around the world. Topics covered include public sector activities, human factors and challenges, ethical, legal, energy and technology perspectives, vehicle systems development, as well as transportation infrastructure and planning. The book is based on the Automated Vehicles Symposium held on July 9-12, 2018 in San Francisco, CA (USA).

This book constitutes the refereed proceedings of the 11th IFIP TC 9 International Conference on Human Choice and Computers, HCC11 2014, held in Turku, Finland, in July/August 2014. The 29 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are based on both academic research and the professional experience of information technologists working in the field. They have been organized in the following topical sections: society, social responsibility, ethics and ICT; the history of computing and its meaning for the future; peace, war, cyber-security and ICT; and health, care, well-being and ICT.

Critical infrastructure provides essential services to citizens. The mutual dependencies of services between systems form a complex "system of systems" with a large perturbation surface, prone to be damaged by natural and anthropic events. Their intrinsic and extrinsic vulnerabilities could be overcome by providing them adaptive properties to allow fast and effective recovery from loss of functionality. Resilience is thus the key issue, and its enhancement, at the systemic level, is a priority goal to be achieved. This volume reviews recent insights into the different domains (resilience-enhancing strategies, impact and threats knowledge, and dependency-related issues) and proposes new strategies for better critical infrastructure protection.

The Wiley Handbook of Science and Technology for Homeland Security is an essential and timely collection of resources designed to support the effective communication of homeland security research across all disciplines and institutional boundaries. Truly a unique work this 4 volume set focuses on the science behind safety, security, and recovery from both man-made

and natural disasters has a broad scope and international focus. The Handbook: Educates researchers in the critical needs of the homeland security and intelligence communities and the potential contributions of their own disciplines Emphasizes the role of fundamental science in creating novel technological solutions Details the international dimensions of homeland security and counterterrorism research Provides guidance on technology diffusion from the laboratory to the field Supports cross-disciplinary dialogue in this field between operational, R&D and consumer communities

"What, exactly, is 'National Cyber Security'? The rise of cyberspace as a field of human endeavour is probably nothing less than one of the most significant developments in world history. Cyberspace already directly impacts every facet of human existence including economic, social, cultural and political developments, and the rate of change is not likely to stop anytime soon. However, the socio-political answers to the questions posed by the rise of cyberspace often significantly lag behind the rate of technological change. One of the fields most challenged by this development is that of 'national security'. The National Cyber Security Framework Manual provides detailed background information and in-depth theoretical frameworks to help the reader understand the various facets of National Cyber Security, according to different levels of public policy formulation. The four levels of government--political, strategic, operational and tactical/technical--each have their own perspectives on National Cyber Security, and each is addressed in individual sections within the Manual. Additionally, the Manual gives examples of relevant institutions in National Cyber Security, from top-level policy coordination bodies down to cyber crisis management structures and similar institutions."--Page 4 of cover.

This book constitutes the thoroughly refereed post-proceedings of the 8th International Workshop on Critical Information Infrastructures Security, CRITIS 2013, held in Amsterdam, The Netherlands, in September 2013. The 16 revised full papers and 4 short papers were thoroughly reviewed and selected from 57 submissions. The papers are structured in the following topical sections: new challenges, natural disasters, smart grids, threats and risk, and SCADA/ICS and sensors.

The challenges to humanity posed by the digital future, the first detailed examination of the unprecedented form of power called "surveillance capitalism," and the quest by powerful corporations to predict and control our behavior. In this masterwork of original thinking and research, Shoshana Zuboff provides startling insights into the phenomenon that she has named surveillance capitalism. The stakes could not be higher: a global architecture of behavior modification threatens human nature in the twenty-first century just as industrial capitalism disfigured the natural world in the twentieth. Zuboff vividly brings to life the consequences as surveillance capitalism advances from Silicon Valley into every economic sector. Vast wealth and power are accumulated in ominous new "behavioral futures markets," where predictions about our behavior are bought and sold, and the production of goods and services is subordinated to a new "means of behavioral modification." The threat has shifted from a totalitarian Big Brother state to a ubiquitous digital architecture: a "Big Other" operating in the interests of surveillance capital. Here is the crucible of an unprecedented form of power marked by extreme concentrations of knowledge and free from democratic oversight. Zuboff's comprehensive and moving analysis lays bare the threats to twenty-first century society: a controlled "hive" of total connection that seduces with promises of total certainty for maximum profit -- at the expense of democracy, freedom, and our human future. With little resistance from law or society, surveillance capitalism is on the verge of dominating the social order and shaping the digital future -- if we let it.

"With the digitization of society, crime has also digitized. Digitization has consequences for the entire spectrum of crime and raises all sorts of questions. For example, are we dealing with a new type of offender, or with the same old offenders who simply moved their activities online? How can potential victims be made resilient against attacks? And who should protect potential victims: the police, commercial cybersecurity companies, or internet service providers? To date, many of these questions remain unanswered. This is partly because current studies have a strong focus on technology or are exploratory in nature, suffer from methodological limitations and focus on just a few of the many types of cybercrime. The aim of this research agenda is to stimulate research on the human factor in cybercrime and cybersecurity. The agenda provides the state-of-the-art of research on the role of the human factor in this field. In addition, examples are given of important research questions and innovative methods and datasets that are needed for future studies."--Page 4 de la couverture.

The history of robotics and artificial intelligence in many ways is also the history of humanity's attempts to control such technologies. From the Golem of Prague to the military robots of modernity, the debate continues as to what degree of independence such entities should have and how to make sure that they do not turn on us, its inventors. Numerous recent advancements in all aspects of research, development and deployment of intelligent systems are well publicized but safety and security issues related to AI are rarely addressed. This book is proposed to mitigate this fundamental problem. It is comprised of chapters from leading AI Safety researchers addressing different aspects of the AI control problem as it relates to the development of safe and secure artificial intelligence. The book is the first edited volume dedicated to addressing challenges of constructing safe and secure advanced machine intelligence. The chapters vary in length and technical content from broad interest opinion essays to highly formalized algorithmic approaches to specific problems. All chapters are self-contained and could be read in any order or skipped without a loss of comprehension.

Risk, Reliability and Safety contains papers describing innovations in theory and practice contributed to the scientific programme of the European Safety and Reliability conference (ESREL 2016), held at the University of Strathclyde in Glasgow, Scotland (25—29 September 2016). Authors include scientists, academics, practitioners, regulators and other key individuals with expertise and experience relevant to specific areas. Papers include domain specific applications as well as general modelling methods. Papers cover evaluation of contemporary solutions, exploration of future challenges, and exposition of concepts, methods and processes. Topics include human factors, occupational health and safety, dynamic and systems reliability modelling, maintenance optimisation, uncertainty analysis, resilience assessment, risk and crisis management.

In recent years, building information modeling has become a very active research area of construction informatics with investigation of ICT use within construction industry processes and organizations. The Handbook of Research on Building Information Modeling and Construction Informatics: Concepts and Technologies addresses the problems related to information integration and interoperability throughout the lifecycle of a building, from feasibility and conceptual design through to demolition and recycling stages. Containing research from leading international experts, this Handbook of Research provides comprehensive coverage and definitions of the most important issues, concepts, trends, and technologies within the field.

This book constitutes the proceedings of the Workshops held in conjunction with SAFECOMP 2021, the 40th International Conference on Computer Safety, Reliability and Security, which took place in York, UK, in September 2021. The 26 regular papers included in this volume were carefully reviewed and selected from 34 submissions. The workshops included in this volume are: DECSoS 2021: 16th Workshop

on Dependable Smart Embedded and Cyber-Physical Systems and Systems-of-Systems WAISE 2021: Fourth International Workshop on Artificial Intelligence Safety Engineering DepDevOps 2021: Second International Workshop on Dependable Development-Operation Continuum Methods for Dependable Cyber-Physical Systems USDAI 2021: Second International Workshop on Underpinnings for Safe Distributed AI MAPSOD 2021: First International Workshop on Multi-concern Assurance Practices in Software Design

The book aims to provide a broad overview of various topics of the Internet of Things (IoT) from the research and development priorities to enabling technologies, architecture, security, privacy, interoperability and industrial applications. It is intended to be a stand-alone book in a series that covers the Internet of Things activities of the IERC - Internet of Things European Research Cluster - from technology to international cooperation and the global "state of play." The book builds on the ideas put forward by the European Research Cluster on the Internet of Things Strategic Research and Innovation Agenda and presents views and state of the art results on the challenges facing the research, development and deployment of IoT at the global level. Today we see the integration of Industrial, Business and Consumer Internet which is bringing together the Internet of People, Internet of Things, Internet of Energy, Internet of Vehicles, Internet of Media, Services and Enterprises in forming the backbone of the digital economy, the digital society and the foundation for the future knowledge and innovation based economy. These developments are supporting solutions for the emerging challenges of public health, aging population, environmental protection and climate change, the conservation of energy and scarce materials, enhancements to safety and security and the continuation and growth of economic prosperity. Penetration of smartphones and advances in nanoelectronics, cyber-physical systems, wireless communication, software, and Cloud computing technology will be the main drivers for IoT development. The IoT contribution is seen in the increased value of information created by the number of interconnections among things and the transformation of the processed information into knowledge shared into the Internet of Everything. The connected devices are part of ecosystems connecting people, processes, data, and things which are communicating in the Cloud using the increased storage and computing power while attempting to standardize communication and metadata. In this context, the next generation of Cloud computing technologies will need to be flexible enough to scale autonomously, adaptive enough to handle constantly changing connections and resilient enough to stand up to the huge flows of data that will occur. In 2025, analysts forecast that there will be six devices per human on the planet, which means around 50 billion more connected devices over the next 12 years. The Internet of Things market is connected to this anticipated device growth from industrial Machine to Machine (M2M) systems, smart meters and wireless sensors. Internet of Things technology will generate new services and new interfaces by creating smart environments and smart spaces with applications ranging from Smart Cities, Smart Transport, Buildings, Energy, Grid, to Smart Health and Life.

This Territorial Review of the Netherlands covers the recently created top-sector innovation policy; decentralisation; and territorial reforms such as municipal and provincial re-scaling through mergers or co-operation.

A listing of forthcoming meetings, conventions, etc.

This report provides strategic advice on preparing for and responding to potential global shocks.

This book offers readers a deeper understanding of the Cyberspace, of how institutions and industries are reinventing themselves, helping them excel in the transition to a fully digitally connected global economy. Though technology plays a key part in this regard, societal acceptance is the most important underlying condition, as it poses pressing challenges that cut across companies, developers, governments and workers. The book explores the challenges and opportunities involved, current and potential future concepts, critical reflections and best practices. It addresses connected societies, new opportunities for governments, the role of trust in digital networks, and future education networks. In turn, a number of representative case studies demonstrate the current state of development in practice.

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