

Advances In Information Technologies For Electromagnetics

Digital forensics deals with the acquisition, preservation, examination, analysis and presentation of electronic evidence. Practically every crime now involves some digital evidence; digital forensics provides the techniques and tools to articulate this evidence. This book describes original research results and innovative applications in the emerging discipline of digital forensics. In addition, it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations.

Computers, communications, digital information, software—the constituents of the information age—are everywhere. Being computer literate, that is technically competent in two or three of today's software applications, is not enough anymore. Individuals who want to realize the potential value of information technology (IT) in their everyday lives need to be computer fluent—able to use IT effectively today and to adapt to changes tomorrow. Being Fluent with Information Technology sets the standard for what everyone should know about IT in order to use it effectively now and in the future. It explores three kinds of knowledge—intellectual capabilities, foundational concepts, and skills—that are essential for fluency with IT. The book presents detailed descriptions and examples of current skills and timeless concepts and

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capabilities, which will be useful to individuals who use IT and to the instructors who teach them.

This book reports on new theories and applications in the field of intelligent systems and computing. It covers computational and artificial intelligence methods, as well as advances in computer vision, current issues in big data and cloud computing, computation linguistics, and cyber-physical systems. It also reports on data mining and knowledge extraction technologies, as well as central issues in intelligent information management. Written by active researchers, the respective chapters are based on papers presented at the International Conference on Computer Science and Information Technologies (CSIT 2017), held on September 5–8, 2017, in Lviv, Ukraine; and at two workshops accompanying the conference: one on inductive modeling, jointly organized by the Lviv Polytechnic National University and the National Academy of Science of Ukraine; and another on project management, which was jointly organized by the Lviv Polytechnic National University, the International Project Management Association, the Ukrainian Project Management Association, the Kazakhstan Project Management Association, and Nazarbayev University. Given its breadth of coverage, the book provides academics and professionals with extensive information and a timely snapshot of the field of intelligent systems, and is sure to foster new discussions and collaborations among different groups.

"This book offers the latest the field has to offer in research, methodologies,

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frameworks, and advances in the field of intelligent information technologies"--Provided by publisher.

This book features selected research papers presented at the International Conference on Advances in Information Communication Technology and Computing (AICTC 2019), held at the Government Engineering College Bikaner, Bikaner, India, on 8–9 November 2019. It covers ICT-based approaches in the areas ICT for energy efficiency, life cycle assessment of ICT, green IT, green information systems, environmental informatics, energy informatics, sustainable HCI and computational sustainability.

The three volume set LNICST 84 - LNICST 86 constitute the refereed proceedings of the Second International Conference on Computer Science and Information Technology, CCSIT 2012, held in Bangalore, India, in January 2012. The 66 revised full papers presented in this volume were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on networks and communications; wireless and mobile networks; and network security.

The latest trends in Information Technology represent a new intellectual paradigm for scientific exploration and visualization of scientific phenomena. The present treatise covers almost all the emerging technologies in the field. Academicians, engineers, industrialists, scientists and researchers engaged in teaching, research and development of Computer Science and Information Technology will find the book useful for their future academic and research work. The present treatise comprising 225

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articles broadly covers the following topics exhaustively. 01. Advance Networking and Security/Wireless Networking/Cyber Laws 02. Advance Software Computing 03. Artificial Intelligence/Natural Language Processing/ Neural Networks 04. Bioinformatics/Biometrics 05. Data Mining/E-Commerce/E-Learning 06. Image Processing, Content Based Image Retrieval, Medical and Bio-Medical Imaging, Wavelets 07. Information Processing/Audio and Text Processing/Cryptology, Steganography and Digital Watermarking 08. Pattern Recognition/Machine Vision/Image Motion, Video Processing 09. Signal Processing and Communication/Remote Sensing 10. Speech Processing & Recognition, Human Computer Interaction 11. Information and Communication Technology

This book is composed by the papers accepted for presentation and discussion at The 2019 International Conference on Information Technology & Systems (ICITS'20), held at the Universidad Distrital Francisco José de Caldas, in Bogotá, Colombia, on 5th to 7th February 2020. ICIST is a global forum for researchers and practitioners to present and discuss recent findings and innovations, current trends, professional experiences and challenges of modern information technology and systems research, together with their technological development and applications. The main topics covered are: information and knowledge management; organizational models and information systems; software and systems modelling; software systems, architectures, applications and tools; multimedia systems and applications; computer networks,

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mobility and pervasive systems; intelligent and decision support systems; big data analytics and applications; human–computer interaction; ethics, computers & security; health informatics; information technologies in education.

It was our intention to organize IAIT 2010 as the place where researchers and industrial practitioners could share their work and achievements in information technology, both theoretical and in application. This is the fourth time we have organized IAIT to serve as a venue to foster collaboration among industry and academia from different parts of the world. A lot has been achieved since the launch of the first IAIT in 2005; however, many challenges remain to be addressed in the years to come. IAIT 2010 drew attendance from leading professionals in both industry and academes, as in IAIT 2009. In addition to the relevant program offered by IAIT 2010, the conference provided an excellent environment to meet peers in the IT profession, build relationships, and exchange lessons learned. During the conference, participants presented and discussed the latest topics in information technology, ranging from technical knowledge and experimentation to future strategic directions. As the Internet continues to reach out even further, almost everything in our daily life is accessible via IP addresses, our societies need to recognize that we need new knowledge to make this advancement become a benefit to all life in this world. It is almost impossible to gain this new knowledge without contributions from our colleagues, working in various aspects of information technology. Some times, new knowledge found in one area can help simplify difficult task in another. Together we can make our world better by creating applications from information technology.

Educational initiatives attempt to introduce or promote a culture of quality within education by

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raising concerns related to student learning, providing services related to assessment, professional development of teachers, curriculum and pedagogy, and influencing educational policy, in the realm of technology. Adapting Information and Communication Technologies for Effective Education addresses ICT assessment in universities, student satisfaction in management information system programs, factors that impact the successful implementation of a laptop program, student learning and electronic portfolios, and strategic planning for e-learning. Providing innovative research on several fundamental technology-based initiatives, this book will make a valuable addition to every reference library.

Computer and Information Technology (CIT) are now involved in governmental, industrial, and business domains more than ever. Thus, it is important for CIT personnel to continue academic research to improve technology and its adoption to modern applications. The up-to-date research and technologies must be distributed to researchers and CIT community continuously to aid future development. The 10th International Conference on Computing and Information Technology (IC 2 IT2014) organized by King Mongkut's University of Technology North Bangkok (KMUTNB) and partners provides an exchange of the state of the art and future developments in the two key areas of this process: Computer Networking and Data Mining. Behind the background of the foundation of ASEAN, it becomes clear that efficient languages, business principles and communication methods need to be adapted, unified and especially optimized to gain a maximum benefit to the users and customers of future IT systems.

Recent Advances in Information Technology CRC Press

Created through a student-tested, faculty-approved review process with input from more than 250 students and faculty, GOVT is an engaging and accessible solution to accommodate the

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diverse learning styles of today's learners at a value-based price. Focusing on the current and historical conflicts and controversies that define America as a nation, GOVT is a streamlined and extremely current text for the American Government course. Its motivating debate theme and appealing modern format speak directly to today's student. A full suite of learning tools--correlated to the text chapter-by-chapter--are available through CourseMate and include an eBook, Chapter In Review cards, videos, simulations, podcasts, and quizzes that allow students to learn and study wherever they are and whenever they have time.

Modern technology has impacted healthcare and interactions between patients and healthcare providers through a variety of means including the internet, social media, mobile devices, and the internet of things. These new technologies have empowered, frustrated, educated, and confused patients by making educational materials more widely available and allowing patients to monitor their own vital signs and self-diagnose. Further analysis of these and future technologies is needed in order to provide new approaches to empowerment, reduce mistakes, and improve overall healthcare. Impacts of Information Technology on Patient Care and Empowerment is a critical scholarly resource that delves into patient access to information and the effect that access has on their relationship with healthcare providers and their health outcomes. Featuring a range of topics such as gamification, mobile computing, and risk analysis, this book is ideal for healthcare practitioners, doctors, nurses, surgeons, hospital staff, medical administrators, patient advocates, researchers, academicians, policymakers, and healthcare students.

Provides a broad working knowledge of all the major security issues affecting today's enterprise IT activities. Multiple techniques, strategies, and applications are examined,

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presenting the tools to address opportunities in the field. For IT managers, network administrators, researchers, and students.

The summary version of Emerging and Readily Available Technologies and National Security distills the findings and recommendations of the complete report into a a booklet format. The full report is available [here](#).

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.

The amount of data used in the business world has been growing at a rapid and exponential rate. These large volumes of data have led not only to the rise of big data analytics, but to the need for improvements and advancements in the management of it. Recent Advances in Intelligent Technologies and Information Systems brings together current practices and innovations in the management

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and processing of diverse big data sets through technological integration. Focusing on concepts such as semantic technologies, open source tools, and soft computing, this book is an integral reference source for professionals, researchers, and practitioners interested in the application of technological advancements.

This book gathers selected papers presented at the 2020 World Conference on Information Systems and Technologies (WorldCIST'20), held in Budva, Montenegro, from April 7 to 10, 2020. WorldCIST provides a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences with and challenges regarding various aspects of modern information systems and technologies. The main topics covered are A) Information and Knowledge Management; B) Organizational Models and Information Systems; C) Software and Systems Modeling; D) Software Systems, Architectures, Applications and Tools; E) Multimedia Systems and Applications; F) Computer Networks, Mobility and Pervasive Systems; G) Intelligent and Decision Support Systems; H) Big Data Analytics and Applications; I) Human–Computer Interaction; J) Ethics, Computers & Security; K) Health Informatics; L) Information Technologies in Education; M) Information Technologies in Radiocommunications; and N) Technologies for

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Biomedical Applications.

With success of ICEEE 2010 in Wuhan, China, and December 4 to 5, 2010, the second International Conference of Electrical and Electronics Engineering (ICEEE 2011) will be held in Macau, China, and December 1 to 2, 2011. ICEEE is an annual conference to call together researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Electrical and Electronics Engineering along with Computer Science and Technology, Communication Technology, Artificial Intelligence, Information Technology, etc. This year ICEEE is sponsored by International Industrial Electronics Center, Hong Kong. And based on the deserved reputation, more than 750 papers have been submitted to ICEEE 2011, from which about 94 high quality original papers have been selected for the conference presentation and inclusion in the “Advanced Computer, Communication, and Control” book based on the referees’ comments from peer-refereed. All the papers will be published by Lecture Notes in Electrical Engineering (ISSN: 1876-1100), and will be included in Springer Link. We expect that the Advanced Computer, Communication, and Control book will be a trigger for further related research and technology improvements in the importance subject including Signal Processing, Retrieval and Multimedia, Artificial

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Intelligence, Computing and Intelligent Systems, Machine Learning, Biometric and Biomedical Applications, Neural Networks, Knowledge Discovery and Data Mining, Knowledge-based Systems, Control Systems, Modeling and Simulation Techniques, Wireless Communications, Advances in Wireless Video, etc. The international conference on Advances in Computing and Information technology (ACITY 2012) provides an excellent international forum for both academics and professionals for sharing knowledge and results in theory, methodology and applications of Computer Science and Information Technology. The Second International Conference on Advances in Computing and Information technology (ACITY 2012), held in Chennai, India, during July 13-15, 2012, covered a number of topics in all major fields of Computer Science and Information Technology including: networking and communications, network security and applications, web and internet computing, ubiquitous computing, algorithms, bioinformatics, digital image processing and pattern recognition, artificial intelligence, soft computing and applications. Upon a strength review process, a number of high-quality, presenting not only innovative ideas but also a founded evaluation and a strong argumentation of the same, were selected and collected in the present proceedings, that is composed of three different volumes. Since Galileo corresponded with Kepler, the community of scientists has become

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increasingly international. A DNA sequence is as significant to a researcher in Novosibirsk as it is to one in Pasadena. And with the advent of electronic communications technology, these experts can share information within minutes. What are the consequences when more bits of scientific data cross more national borders and do it more swiftly than ever before? Bits of Power assesses the state of international exchange of data in the natural sciences, identifying strengths, weaknesses, and challenges. The committee makes recommendations about access to scientific data derived from public funding. The volume examines: Trends in the electronic transfer and management of scientific data. Pressure toward commercialization of scientific data, including the economic aspects of government dissemination of the data. The implications of proposed changes to intellectual property laws and the role of scientists in shaping legislative and legal solutions. Improving access to scientific data by and from the developing world. Bits of Power explores how these issues have been addressed in the European Community and includes examples of successful data transfer activities in the natural sciences. The book will be of interest to scientists and scientific data managers, as well as intellectual property rights attorneys, legislators, government agencies, and international organizations concerned about the electronic flow of scientific data.

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This book presents a selection of papers from the 2017 World Conference on Information Systems and Technologies (WorldCIST'17), held between the 11st and 13th of April 2017 at Porto Santo Island, Madeira, Portugal. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges involved in modern Information Systems and Technologies research, together with technological developments and applications. The main topics covered are: Information and Knowledge Management; Organizational Models and Information Systems; Software and Systems Modeling; Software Systems, Architectures, Applications and Tools; Multimedia Systems and Applications; Computer Networks, Mobility and Pervasive Systems; Intelligent and Decision Support Systems; Big Data Analytics and Applications; Human–Computer Interaction; Ethics, Computers & Security; Health Informatics; Information Technologies in Education; and Information Technologies in Radiocommunications.

Information Technology is applicable in all areas of life. As a result, computer science is essential to imagine the modern world. Recent advances in information technology represents only a small part of today's computing applications which were the subject of international cooperation between Kazakh, Ukrainian and Polish scientists. A wide range of issues and topics is addressed,

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from game theory to advanced control issues: - Application of new computational models and their security problems - The integro-differential game approach - Application of information technology for automated translation, from inflected languages to sign language - Mathematical problems of complex systems investigation under uncertainties Recent advances in information technology is of interest to academics and engineers, and to professionals involved in information technology and its applications.

Computers and telecommunications have revolutionized the processes of scientific research. How is this information technology being applied and what difficulties do scientists face in using information technology? How can these difficulties be overcome? Information Technology and the Conduct of Research answers these questions and presents a variety of helpful examples. The recommendations address the problems scientists experience in trying to gain the most benefit from information technology in scientific, engineering, and clinical research.

This book contains a selection of articles from The Europe, Middle East and North Africa Conference on Technology and Security to Support Learning 2016 (EMENA-TSSL'16), held between the 3th and 5th of October at Saidia, Oujda, Morocco. EMENA-TSSL'16 is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges in Information & Communication Technologies, and Security to support Learning. The main topics covered are: A) Online Education; B) Emerging Technologies in Education; C) Artificial Intelligence in Education; D)

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Gamification and Serious games; E) Network & Web Technologies Applications; F) Online experimentation and Virtual Laboratories; G) Multimedia Systems and Applications; H) Security and Privacy; I) Multimedia, Computer Vision and Image Processing; J) Cloud, Big Data Analytics and Applications; K) Human-Computer Interaction; L) Software Systems, Architectures, Applications and Tools; M) Online Languages and Natural Language Processing N) E-content Development, Assessment and Plagiarism; O) Secure E-Learning Development and Auditing; P) Internet of Things and Wireless Sensor Networks.

This book highlights the most important research areas in Information and Telecommunication Technologies as well as Radio Electronics. The respective chapters share in-depth and extended results in these areas with a view to resolving practically relevant and challenging issues including: management services and quality control, improved estimates for reliability indicators, the cryptographic technology Blockchain, research and forecasting of technological characteristics, satellite communications, multiservice transmission systems and effective technological solutions. These results can be used in the implementation of novel systems and to promote the exchange of information in e-societies. Given its scope the book offers a valuable resource for scientists, lecturers, specialists working at enterprises, graduate and undergraduate students who engage with problems in Information and Telecommunication Technologies as well as Radio Electronics.

This book presents the proceedings of the International Conference on Systems, Control and Information Technologies 2016. It includes research findings from leading experts in the fields connected with INDUSTRY 4.0 and its implementation, especially: intelligent systems, advanced control, information technologies, industrial automation, robotics, intelligent sensors,

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metrology and new materials. Each chapter offers an analysis of a specific technical problem followed by a numerical analysis and simulation as well as the implementation for the solution of a real-world problem.

"This book offers articles focused on key issues concerning the development, design, and analysis of global IT"--Provided by publisher.

The three volume set LNICST 84 - LNICST 86 constitute the refereed proceedings of the Second International Conference on Computer Science and Information Technology, CCSIT 2012, held in Bangalore, India, in January 2012. The 55 revised full papers presented in this volume were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on advances in computer science and information technology; and ad hoc and ubiquitous computing.

The rapid evolution of information technology (IT) is transforming our society and its institutions. For the most knowledge-intensive entities of all, research universities, profound IT-related challenges and opportunities will emerge in the next decade or so. Yet, there is a sense that some of the most significant issues are not well understood by academic administrators, faculty, and those who support or depend on the institution's activities. This study identifies those information technologies likely to evolve in the near term (a decade or less) that could ultimately have a major impact on the research university. It also examines the possible implications of these technologies for the research university's activities (learning, research, outreach) and its organization, management, and financing and for the broader higher education enterprise. The authoring committee urges research universities and their constituents to develop new strategies to ensure that they survive and thrive in the digital age.

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Many organisations are using an increased range of information technologies to support a variety of new organisational practices and organisational forms. The book aims to investigate the integration of information technologies into work places and their effect on work and work-life. Issues include changes in: the nature, quantity and quality of work; power relations; privacy; and aspects of organisational culture. The book also considers the social process of shifting from present organisational structures and practices to new ones.

The book includes the best extended papers which were selected from the 3rd International Conference of Electrical and Information Technologies (ICEIT 2017, Morocco). The book spans two inter-related research domains which shaped modern societies, solved many of their development problems, and contributed to their unprecedented economic growth and social welfare. Selected papers are based on original and high quality research. They were peer reviewed by experts in the field. They are grouped into five parts. Part I deals with Power System and Electronics topics that include Power Electronics & Energy Conversion, Actuators & Micro/Nanotechnology, etc. Part II relates to Control Systems and their applications. Part III concerns the topic of Information Technology that basically includes Smart Grid, Information Security, Cloud Computing Distributed, Big Data, etc. Part IV discusses Telecommunications and Vehicular Technologies topics that include, Green Networking and Communications, Wireless Ad-hoc and Sensor Networks, etc. Part V covers Green Applications and Interdisciplinary topics, that include intelligent and Green Technologies for Transportation Systems, Smart Cities, etc. This book offers a good opportunity for young researchers, novice scholars and whole academic sphere to explore new trends in Electrical and information Technologies.

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The flood of information technology (I.T.) products and services entering the market place often obscures the need to nurture the research enterprise. But as I.T. becomes integrated into all aspects of society, the need for research is even greater. And the range of issues that need to be addressed is broader than ever. This new book highlights the fundamental importance of research to ensure that I.T. meets society's expanding needs. Against the background of dramatic change in the I.T. landscape, the committee examines four key questions: Is the scope of I.T. research broad enough-particularly in the arena of large-scale systems-to address government, business, and social applications? Are government and industrial sponsors providing sufficient funding for I.T. research? Is the research net big both big and diverse enough to capture sufficient financial and intellectual resources to advance the field? Are structures and mechanisms for funding and conducting research suited to the new sets of research challenges?

The technological revolution has reached around the world, with important consequences for business, government, and the labor market. Computer-aided design, telecommunications, and other developments are allowing small players to compete with traditional giants in manufacturing and other fields. In this volume, 16 engineering and industrial experts representing eight countries discuss the growth of technological advances and their impact on specific industries and regions of the world. From various perspectives, these distinguished commentators describe the practical aspects of technology's reach into business and trade. This book directly addresses a long-felt, unsatisfied need of modern color science - an appreciative and technically sound presentation of the principles and main offerings of colorimetry to artists and designers, written by one of them. With his unique blend of training

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and experience in engineering, with his lifelong interest and, latterly, career in art and art education, Dr. Agoston is unusually well prepared to convey the message of color science to art and design. His book fulfills the hopes I had when I first heard about him and his book. I foresee important and long-lasting impacts of this book, analogous to those of the epoch-making writings by earlier artist-scientists, such as Leonardo, Chevreul, Munsell, and Pope. Nearly all persons who have contributed to color science, recently as well as formerly, were attracted to the study of color by color in art. Use of objective or scientific methods did not result from any cold, detached attitude, but from the inherent difficulties of the problems concerning color and its use, by which they were intrigued. Modern education and experience has taught many people how to tackle difficult problems by use of scientific methods. Therefore - color science.

Since its first volume in 1960, *Advances in Computers* has presented detailed coverage of innovations in computer hardware, software, theory, design, and applications. It has also provided contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles usually allow. As a result, many articles have become standard references that continue to be of significant, lasting value in this rapidly expanding field. In-depth surveys and tutorials on new computer technology Well-known authors and researchers in the field Extensive bibliographies with most chapters Many of the volumes are devoted to single themes or subfields of computer science

This book presents the latest research on computer recognition systems. Over the last few years, computer scientists, engineers and users have been confronted with rapid changes in computer interfaces and in the abilities of the machines and the services available. And this is

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just the beginning: based on recent research findings, we can expect more significant advances and challenges in the next decade. Achievements in the area of artificial intelligence have made an important major contribution to these developments: Machine learning, natural language processing, speech recognition, image and video processing are just some of the major research and engineering directions that have made autonomous driving, language assistants, automatic translation and answering systems as well as other innovative applications such as more human-oriented interfaces possible. Those developments also reflect economic changes in the world, which are increasingly dominated by the needs of enhanced globalization, international cooperation (including its competitive aspects) and emerging global problems.

Recent years have yielded significant advances in computing and communication technologies, with profound impacts on society. Technology is transforming the way we work, play, and interact with others. From these technological capabilities, new industries, organizational forms, and business models are emerging. Technological advances can create enormous economic and other benefits, but can also lead to significant changes for workers. IT and automation can change the way work is conducted, by augmenting or replacing workers in specific tasks. This can shift the demand for some types of human labor, eliminating some jobs and creating new ones. Information Technology and the U.S. Workforce explores the interactions between technological, economic, and societal trends and identifies possible near-term developments for work. This report emphasizes the need to understand and track these trends and develop strategies to inform, prepare for, and respond to changes in the labor market. It offers evaluations of what is known, notes open questions to be addressed, and

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identifies promising research pathways moving forward.

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