

Digitech Service

This book is based on the research papers presented during The Institute of Industrial Engineers Asian Conference 2013 held at Taipei in July 2013. It presents information on the most recent and relevant research, theories and practices in industrial and systems engineering. Key topics include: Engineering and Technology Management Engineering Economy and Cost Analysis Engineering Education and Training Facilities Planning and Management Global Manufacturing and Management Human Factors Industrial & Systems Engineering Education Information Processing and Engineering Intelligent Systems Manufacturing Systems Operations Research Production Planning and Control Project Management Quality Control and Management Reliability and Maintenance Engineering Safety, Security and Risk Management Supply Chain Management Systems Modeling and Simulation Large scale complex systems

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At the root of inequality, unemployment, and populism are radical changes in the world economy. Digital technology is allowing talented foreigners to telecommute into our workplaces and compete for service and professional jobs. Instant machine translation is melting language barriers, so the ranks of these "tele-migrants" will soon include almost every educated person in the world. Computing power is dissolving humans' monopoly on thinking, enabling AI-trained computers to compete for many of the same white-collar jobs. The combination of globalization and robotics is creating the globotics upheaval, and it threatens the very foundations of the liberal welfare-state. Richard Baldwin, one of the world's leading globalization experts, argues that the inhuman speed of this transformation threatens to overwhelm our capacity to adapt. From computers in the office to automatic ordering systems in restaurants, we are familiar with the how digital technologies offer convenience while also eliminating jobs. Globotics will disrupt the lives of millions of white-collar workers much faster than automation, industrialization, and globalization disrupted the lives of factory workers in previous centuries. The result will be a backlash. Professional, white-collar, and service workers will agitate for a slowing of the unprecedented pace of disruption, as factory workers have done in years past. Baldwin argues that the globotics upheaval will be countered in the short run by "shelter-ism" - government policies that shelter some service jobs from tele-migrants and thinking computers. In the long run, people will work in more human jobs-activities that require real people to use the uniquely human ability of independent thought-and this will strengthen bonds in local communities. Offering effective strategies such as focusing on the social value of work, The Globotics Upheaval will help people prepare for the oncoming wave of an advanced robotic workforce.

Covers receipts and expenditures of appropriations and other funds.

The Belt and Road Initiative (BRI), launched by China in 2013, carries and projects powerful regional dimensions and transformations, with short- and long-term global, national and local consequences. The BRI's regional significance lies in its designation and creation of several cross-border corridors that originate from inside China and extend out into its neighbouring countries, and those farther afield in Asia, Africa and Europe. Through driving and facilitating new trade and infrastructure connections along and beyond these corridors, the BRI has begun to reshape the master processes of globalisation, urbanisation and development by affecting the economic, social and spatial fortunes of many countries and cities. This book serves two purposes. First, through a new framework and three case studies, it examines the BRI's impacts on globalisation, urbanisation and development via the China-Europe Freight Train, the paired construction of a new city and railway across the China-Laos borderland and the port-park-city development corridor between Djibouti and Ethiopia. Second, the comparative analysis and evidence guide the book to advance policy recommendations for targeted stakeholders that can potentially turn the BRI into a global public good with greater benefits and fewer risks.

If there is any one element to the engineering of service systems that is unique, it is the extent to which the suitability of the system for human use, human service, and excellent human experience has been and must always be considered. An exploration of this emerging area of research and practice, Advances in the Human Side of Service Engineering covers a broad spectrum of ergonomics and human factors issues highlighting the design of contemporary service systems.

Plunkett's InfoTech Industry Almanac presents a complete analysis of the technology business, including the convergence of hardware, software, entertainment and telecommunications. This market research tool includes our analysis of the major trends affecting the industry, from the soaring need for memory, to supercomputing, open source systems such as Linux, cloud computing and the role of nanotechnology in computers. In addition, we provide major statistical tables covering the industry, from computer sector revenues to broadband subscribers to semiconductor industry production. No other source provides this book's easy-to-understand comparisons of growth, expenditures, technologies, imports/exports, corporations, research and other vital subjects. The corporate profile section provides in-depth, one-page profiles on each of the top 500 InfoTech companies. We have used our massive databases to provide you with unique, objective analysis of the largest and most exciting companies in: Computer Hardware, Computer Software, Internet Services, E-Commerce, Networking, Semiconductors, Memory, Storage, Information Management and Data Processing. We've been working harder than ever to gather data on all the latest trends in information technology. Our research effort includes an exhaustive study of new technologies and discussions with experts at dozens of innovative tech companies. Purchasers of the printed book or PDF version may receive a free CD-ROM database of the corporate profiles, enabling export of vital corporate data for mail merge and other uses.

ICIEMS 2013 is to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Industrial Engineering and Management Science. This conference provides opportunities for the delegates to exchange new ideas and experiences face to face, to establish business or research relations and to find global partners for future collaboration.

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The two-volume set LNCS 6987 and 6988 constitutes the refereed proceedings of the International Conference on Web Information Systems and Mining, WISM 2011, held in Taiyuan, China, in September 2011. The 112 revised full papers presented were carefully reviewed and selected from 472 submissions. The second volume includes 56 papers organized in the following topical sections: management information systems; semantic Web and ontologies; Web content mining; Web information classification; Web information extraction; Web intelligence; Web interfaces and applications; Web services and e-learning; and XML and semi-structured data.

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