

## Iata Ssim Manual Chapter 6

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Seneca Falls and the Origins of the Women's Rights Movement  
International Journal of IT Standards and Standardization Research (IJITSR)  
Air Transport in the 21st Century  
Security and Privacy Trends in the Industrial Internet of Things  
Handbook of Biometric Anti-Spoofing  
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Greenwich Time and the Longitude  
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Legal Knowledge Representation:  
Automatic Text Analysis in Public International and European Law  
Face Recognition Across the Imaging Spectrum

### Manual on the Regulation of International Air Transport

In a quiet town of Seneca Falls, New York, over the course of two days in July, 1848, a small group of women and men, led by Elizabeth Cady Stanton and Lucretia Mott, held a convention that would launch the woman's rights movement and change the course of history. The implications of that remarkable convention would be felt around the world and indeed are still being felt today. In *Seneca Falls and the Origins of the Woman's Rights Movement*, the latest contribution to Oxford's acclaimed *Pivotal Moments in American History* series, Sally McMillen unpacks, for the first time, the full significance of that revolutionary convention and the enormous changes it produced. The book covers 50 years of women's activism, from 1840-1890, focusing on four extraordinary figures--Lucretia Mott, Elizabeth Cady Stanton, Lucy Stone, and Susan B. Anthony. McMillen tells the stories of their lives, how they came to take up the cause of women's rights, the astonishing advances they made during their lifetimes, and the lasting and transformative effects of the work they did. At the convention they asserted full equality with men, argued for greater legal rights, greater professional and education opportunities, and the right to vote--ideas considered wildly radical at the time. Indeed, looking back at the convention two years later, Anthony called it "the grandest and greatest reform of all time--and destined to be thus regarded by the future historian." In this lively and warmly written study, Sally McMillen may well be the future historian Anthony was hoping to find. A vibrant portrait of a major turning point in American women's history, and in human history, this book is essential

reading for anyone wishing to fully understand the origins of the woman's rights movement.

## **The Patents Rules 2007**

As railways, steamships, and telegraph communications brought distant places into unprecedented proximity, previously minor discrepancies in local time-telling became a global problem. Vanessa Ogle's chronicle of the struggle to standardize clock times and calendars from 1870 to 1950 highlights the many hurdles that proponents of uniformity faced.

## **Airport Planning & Management**

Enabling power: Patents Act 1977, ss. 14 (6), 25 (5), 32, 74B, 77 (9), 92, 123, 125A, 130 (2). Issued: 28.11.2007. Made: 19.11.2007. Laid: 22.11.2007. Coming into force: 17.12.2007. Effect: S.I. 1978/216; 1999/1899; 2004/2177 (C.94), 3205 (C.140); 2006/760 partially revoked and S.I. 1995/2093; 1997/64; 1998/1778; 1999/1092, 1093, 3197; 2001/1412; 2002/529; 2003/513; 2004/2358; 2005/687, 2496; 2007/677 revoked. Territorial extent & classification: E/W/S/NI. General. Errors in this SI have been corrected by SI 2011/3291 (ISBN 9780111514702) which is issued free of charge to all known recipients of 2007/3291

## **The Global Airline Industry**

Extended Special Issue Spik in Glyph? Translation, Wordplay and Resistance in Chicano Poetry, pp 141-160 Tace Hedrick (Comparative Literature, Penn State Harrisburg, USA) This paper examines the nature of contemporary bilingual Chicano poetry from the 1970s to the present, particularly in terms of the poetic use of bilingual wordplay and the questions it raises about the uses and possibilities of translation. Using Walter Benjamin's essay 'The Task of the Translator' as a touchstone, and positing a metaphorical link between translation and transfer, the paper looks at bilingual wordplay as a kind of bridging-over or translation of one language into the other, crossing and breaking down borders and hierarchies between the two languages. To illustrate this, cultural practices and uses of bilingualism are examined from both a sociolinguistic and a poetic point of view, with examples of how puns, (mis)pronunciations, slang, loanwords, and mixtures of Spanish and English are used in bilingual poetry for formal and polemical effect. Meaningful Literary Names: Their Forms and Functions, and their Translation, pp 161-178 Luca Manini (Montalto, Italy) Proper nouns, which have a special status within the language system as opposed to common nouns, can be used as characterizing devices in literary texts and so become a meaningful element in the texture of such works. Names can in this way be endowed with an extra semantic load that makes them border on wordplay. The presence of meaningful literary names is likely to cause problems when the text is to be translated, the question being not only whether the transposition of such names in the target language is technically

possible, but also to what extent this would be viewed as an appropriate procedure. This paper, which reflects research in progress, explores the issue by analyzing a two-part corpus of texts: The first part consists of twentieth-century Italian translations of English Restoration comedies and the second of Italian translations of Dickens's novels. There are occasional references to other English literary texts from the medieval and Renaissance periods as well. Technical problems of translating proper nouns are taken into consideration, along with other factors which may influence the translator's choices, such as genre, intended audience, cultural tradition and general norms of translation. The Pitfalls of Metalingual Use in Simultaneous Interpreting, pp 179-198 Sergio Viaggio (United Nations, Vienna, Austria) For the simultaneous interpreter, puns and other instances of metalingual use, involving as they do an interplay of form, content and pragmatic intention, may represent a formidable challenge. The interpreter's most efficient tool is his or her adroitness at determining the pun's or the metalingual comment's relevance on the basis of an instant analysis of the communication situation, with particular attention to the speaker's pragmatic intention and intended sense, as well as the audience's needs and expectations. Actual examples from United Nations meeting are used to illustrate the different factors affecting the rendition of wordplay and metalanguage and some suggestions are made towards improving the training of interpreters. Caught in the Frame: A Target-Culture Viewpoint on Allusive Wordplay, pp 199-218 Ritva Leppihalme (University of Helsinki, Finland) Allusive wordplay - stretches of preformed linguistic material (or frames) that have undergone lexical, grammatical, or situational modification - is so culture-specific that it is not only hard for translators working from a foreign language to translate but easy for them to miss altogether. This paper discusses examples of allusive wordplay in English fiction and journalism and reports on an experiment designed to investigate the recognition of frames and carried out on twenty-one Finnish university students of English. Student translations of some of the examples are also discussed. It is argued that a translator who wants to produce a coherent target text and to avoid 'culture bumps' (Archer 1986) must above all pay attention to the function of the wordplay in the relevant context. Passages that include modified frames will often need to be rewritten, as attempts to evoke source-culture frames are unlikely to work with target-culture readers to whom such frames are unfamiliar. Target-culture frames, on the other hand, may be puzzling in a text which is set in the source-culture context. 'Curiouser and Curiouser': Hebrew Translation of Wordplay in 'Alice's Adventures in Wonderland', pp 219-234 Rachel Weissbrod (The Open University of Israel) In 'Alice's Adventures in Wonderland', wordplay has a central role in producing an ambivalent text, that is, one which can function at one and the same time in children's literature and in adult literature. This paper examines, from a norm-oriented approach, how instances of wordplay were treated in three Hebrew translations. The first translation, published in 1923, was subject to a norm which required acceptability at the socio-cultural level. Instances of wordplay were accordingly replaced by completely new ones that were rooted in Jewish tradition. In the second translation, published in 1951, the treatment of wordplay was determined by a different norm, one which required a rephrasing of Carroll's work in an elevated style. Only in the third translation, published in 1987, was the translator sufficiently free from socio-cultural and stylistic dictates to cope with Carroll's wordplay with all the means available. In this last translation, elements which are foreign to Carroll's world or style are introduced only insofar as they helped the translator replace the original wordplay. Translating Jokes for Dubbed Television Situation Comedies, pp 235-257 Patrick

Zabalbeascoa (Universitat Pompeu Fabra, Barcelona, Spain) This paper examines Catalan and Spanish dubbed versions of English TV comedy series such as 'Yes, Minister', with special attention to wordplay as a particular instance of the more general problem of translating comedy for television. The objective is to show that producing foreign-language dubbed versions of audiovisual texts has enough in common with other types of translating assignments to be included within translation studies, as well as to contribute to the area of quality assessment and evaluation of translations by proposing that the criteria for judging a translation should be clear, flexible and realistic, and should take into account the translator's limitations and working environment. The paper also proposes a classification of jokes, with further examples from translations of British situation comedy into Catalan, and presents the concept of 'stylebook' as a helpful bridge between general statements about translation and specific contextualized translating assignments. Dante's Puns in English and the Question of Compensation, pp 259-276 Edoardo Crisafulli (University College, Dublin, Ireland) After a comparative analysis of the source and target texts, this paper attempts to put forward an explanation to account for H. F. Cary's avoidance policy as he deals with Dante's puns in his early nineteenth-century translation of the 'Divina Commedia'. The aim is to consider the findings of the analysis in relation to the issue of compensation. No discussion of translation can avoid dealing with this issue, but there is evidence that compensation cannot be called upon to account for all the foregrounding devices in the target text. In particular, the relationship between compensation and the translator's ideology must be taken into account. The paper concludes by suggesting some conditions which might make it easier to identify instances of compensation. Harvey's (1995) descriptive framework is employed with a view to improving its explanatory power. No-Man's Land on the Common Borders of Linguistics, Philosophy & Sinology: Polysemy in the Translation of Ancient Chinese Texts, pp 277-304 Seán Golden (Universitat Autònoma de Barcelona, Spain) This paper treats polysemy as the driving force of ancient Chinese rhetoric, inherent in the language and its system of writing, not just as an embellishment but as the very basis of discourse, and intrinsic to the multiple meanings expressed by the text; in this way, text may represent a worldview that is radically different from the Western one and that is encoded syntactically, semantically, rhetorically, and visually (in the case of the Chinese written character) in the language. This challenges the comprehension of ancient Chinese texts by translators and their reproduction in languages that share neither the worldview nor the multiple codes involved. From the no-man's land on the common borders of linguistics, philosophy and sinology, the translator may glimpse the horizon of understanding within which the original operates, while knowing that the readership of a translation is looking at a different horizon. Better understanding of this fact by the translator should contribute to a better interpretation of the multiple meanings contained in the original and to a translation that maintains as many meanings as possible. Revisiting the Classics A Question of Form. The Problems of Translating Expressive Text: Review of Rudolf Zimmer's Probleme der Übersetzung formbetonter Sprache (Peter Fawcett, UK) Book Reviews Suzanne Jill Levine: The Subversive Scribe (Tom Conley, USA) Frank Heibert: Das Wortspiel als Stilmittel und seine Übersetzung (Cees Koster, The Netherlands) Brigitte Schultze & Horst Turk (eds): Differente Lachkulturen? Fremde Komik und ihre Übersetzung (Dirk Delabastita, Belgium) Jacqueline Henry: La traduction des jeux de mots (Ronald Landheer, The Netherlands) Dirk Delabastita: There's a Double Tongue (Dirk De Geest, Belgium) Course Profile Wordplay and the Didactics of Translation

(Michel Ballard, France) Wordplay and Translation: A Selective Bibliography (Dirk Delabastita, Belgium & Jacqueline Henry, France)

## **Airport Systems Planning**

Airlines are buffeted by fluctuating political and economic landscapes, ever-changing competition, technology developments, globalization, increasing deregulation and evolving customer requirements. As a consequence all sectors of the air transport industry are in a constant state of flux. The principle aim of this book is to review current trends in the airline industry and its related suppliers, thereby providing an insight into the forces that are changing its dynamics. The factors that are reshaping the structure of the industry are examined with a view to identifying the key issues whose impact will be critical in the future. The book features two very distinct sections. The first contains short contributions from industry executives at CEO/VP level from airlines, aircraft/engine manufacturers, safety and navigational provider organisations, who have set out their take of where the airline industry is heading. This commercial input sets the scene for the book and provides the bridge to the second section, which is composed of 18 chapters written by distinguished academic authors. Each chapter presents a valuable insight into a specific area of the air transport industry, including: airlines, airports, cargo, deregulation, the environment, navigation, strategy, information technology, security and tourism. The shared objective of the authors is to describe and explain the core competencies that are determining the current shape of the industry and to examine the forces that will change its direction going forward. The book is written in a management style and will appeal to all levels of personnel who work for airlines across the world. It is also written for airport authorities, aerospace manufacturers, regulatory and government transportation agencies, researchers and students of aviation management, transport studies, tourism and the wider air transport industry.

## **Space-Age Acronyms**

Twelve stories by the brilliant Italian author employ the history of science and the poetic imagination to ring changes on the theme and activity of creation

## **Electricity Infrastructure**

## **An Elementary Grammar of the Italian Language**

## **Costume of Prelates of the Catholic Church**

Electricity infrastructure: hearing before the Committee on Energy and Natural Resources, United States Senate, One Hundred Seventh Congress, second session, to conduct oversight to examine issues related to the need for, and barriers to, development of electricity infrastructure, July 24, 2002.

## **Cosmicomics**

Extensively revised and updated edition of the bestselling textbook, provides an overview of recent global airline industry evolution and future challenges Examines the perspectives of the many stakeholders in the global airline industry, including airlines, airports, air traffic services, governments, labor unions, in addition to passengers Describes how these different players have contributed to the evolution of competition in the global airline industry, and the implications for its future evolution Includes many facets of the airline industry not covered elsewhere in any single book, for example, safety and security, labor relations and environmental impacts of aviation Highlights recent developments such as changing airline business models, growth of emerging airlines, plans for modernizing air traffic management, and opportunities offered by new information technologies for ticket distribution Provides detailed data on airline performance and economics updated through 2013

## **Seneca Falls and the Origins of the Women's Rights Movement**

Acronym agglomeration is an affliction of the age, and there are acronym addicts who, in their weakness, find it impossible to resist them. More than once in recent months my peers have cautioned me about my apparent readiness to use not only acronyms, but abbreviations, foreign isms, codes, and other cryptic symbols rather than common, ordinary American words. Many among us, though, either have not received or have chosen to ignore such advice. As a consequence, what we write and speak is full of mystery and confusion. It is then for the reader and listener and for the writer and speaker that Reta C. Moser has compiled this guide. Its effective application to the art of communication is urged. Such use should help avoid many of the misunderstandings involving terminology which occur daily. Although such misunderstandings are certainly crucial in humanistic and social situations, they are often of immediate import and the trigger to disaster in scientific, technical, and political situations. Some 15,000 acronyms and 25,000 definitions are provided (a 50- and 47 -percent increase over the 1964 edition!), with due credit to Miss Moser's diligence in making the compilation and with the acknowledgment that the acronymical phenomenon is very much with us. This edition, like the first, is certain to be of value to writers, librarians, editors, and others who must identify and deal with acronyms.

## **International Journal of IT Standards and Standardization Research (IJITSR)**

This book discusses action-oriented, concise and easy-to-communicate goals and challenges related to quality, reliability, infocomm technology and business operations. It brings together groundbreaking research in the area of software reliability, e-maintenance and big data analytics, highlighting the importance of maintaining the current growth in information technology (IT) adoption in businesses, while at the same time proposing process innovations to ensure sustainable development in the immediate future. In its thirty-seven chapters, it covers various areas of e-maintenance solutions, software architectures, patching problems in software reliability, preventive maintenance, industrial big data and reliability applications in electric power systems. The book reviews the ways in which countries currently attempt to resolve the conflicts and opportunities related to quality, reliability, IT and business operations, and proposes that internationally coordinated research plans are essential for effective and sustainable development, with research being most effective when it uses evidence-based decision-making frameworks resulting in clear management objectives, and is organized within adaptive management frameworks. Written by leading experts, the book is of interest to researchers, academicians, practitioners and policy makers alike who are working towards the common goal of making business operations more effective and sustainable.

## **Air Transport in the 21st Century**

By far the most comprehensive book on the subject, the completely new Second Edition of Airport Operations updates the many developments in this fast-changing industry. The book provides a broad perspective on the effects of deregulation, privatization, and commercialization. Thoroughly illustrated, it examines the most current practices in airport security and terminal access, cargo relations, noise control, scheduling issues, and more. It is equally valuable to aviation educators and students as well as to airport personnel.

## **Security and Privacy Trends in the Industrial Internet of Things**

Gin Get Toasted 75th Birthday Gift Journal / Diary / Notebook is an IDEAL gift idea! It is 6 x 9 inches in size with 110 blank lined pages with a Floral theme for writing down thoughts, notes, ideas, or even sketching.

## **Handbook of Biometric Anti-Spoofing**

## **Handbook of Biometric Anti-Spoofing**

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### **IATA Ground Operations Manual (IGOM)**

This book showcases how new and emerging technologies like Unmanned Aerial Vehicles (UAVs) are trying to provide solutions to unresolved socio-economic and environmental problems. Unmanned vehicles can be classified into five different types according to their operation. These five types are unmanned ground vehicles, unmanned aerial vehicles, unmanned surface vehicles (operating on the surface of the water), unmanned underwater vehicles, and unmanned spacecraft. Unmanned vehicles can be guided remotely or function as autonomous vehicles. The technology has a wide range of uses including agriculture, industry, transport, communication, surveillance and environment applications. UAVs are widely used in precision agriculture; from monitoring the crops to crop damage assessment. This book explains the different methods in which they are used, providing step-by-step image processing and sample data. It also discusses how smart UAVs will provide unique opportunities for manufacturers to utilise new technological trends to overcome the current challenges of UAV applications. The book will be of great interest to researchers engaged in forest carbon measurement, road patrolling, plantation monitoring, crop yield estimation, crop damage assessment, terrain modelling, fertilizer control, and pest control.

### **Joe Celko's Data and Databases**

Benjamin Franklin conceived of it. Sir Arthur Conan Doyle endorsed it. Winston Churchill campaigned for it. Kaiser Wilhelm first employed it. Woodrow Wilson and Franklin Roosevelt went to war with it, and more recently the United States fought an energy crisis with it. For several months every year, for better or worse, daylight savings time affects vast numbers of people throughout the world. And from Ben Franklin's era to today, its story has been an intriguing and sometimes bizarre amalgam of colorful personalities and serious technical issues, purported costs and perceived benefits, conflicts between interest groups and government policy makers. Daylight savings time impacts diverse and unexpected areas, including

agricultural practices, street crime, the reporting of sports scores, traffic accidents, the inheritance rights of twins, and voter turnout.

## **Unmanned Aerial Vehicle: Applications in Agriculture and Environment**

Aerodynamic Noise extensively covers the theoretical basis and mathematical modeling of sound, especially the undesirable sounds produced by aircraft. This noise could come from an aircraft's engine—propellers, fans, combustion chamber, jets—or the vehicle itself—external surfaces—or from sonic booms. The majority of the sound produced is due to the motion of air and its interaction with solid boundaries, and this is the main discussion of the book. With problem sets at the end of each chapter, Aerodynamic Noise is ideal for graduate students of mechanical and aerospace engineering. It may also be useful for designers of cars, trains, and wind turbines.

## **Airplane Aerodynamics and Performance**

\* A one-stop source for current developments, cutting-edge planning and managing techniques, new technologies, statistics, trends, and regulatory issues \* Expert guidance on airport site selection, design, access, financing, law and regulation, security, capacity, and technological advances \* NEW and expanded airspace and air traffic control system coverage \* NEW breakout of key Federal Aviation Regulations, Advisory Circulars, forms, etc.

## **The Global Transformation of Time**

This book, written by leaders in the protection field of critical infrastructures, provides an extended overview of the technological and operative advantages together with the security problems and challenges of the new paradigm of the Internet of Things in today's industry, also known as the Industry Internet of Things (IIoT). The incorporation of the new embedded technologies and the interconnected networking advances in the automation and monitoring processes, certainly multiplies the functional complexities of the underlying control system, whilst increasing security and privacy risks. The critical nature of the application context and its relevance for the well-being of citizens and their economy, attracts the attention of multiple, advanced attackers, with stealthy abilities to evade security policies, ex-filter information or exploit vulnerabilities. Some real-life events and registers in CERTs have already clearly demonstrated how the control industry can become vulnerable to multiple types of advanced threats whose focus consists in hitting the safety and security of the control processes. This book, therefore, comprises a detailed spectrum of research papers with highly analytical content and actuation procedures to cover the relevant security and privacy issues such as data protection, awareness, response and resilience, all of them working at optimal times. Readers will be able to comprehend the

construction problems of the fourth industrial revolution and are introduced to effective, lightweight protection solutions which can be integrated as part of the new IIoT-based monitoring ecosystem.

## **Advances in Soft Computing and Machine Learning in Image Processing**

This book deals exclusively with issues related to the relationship between aviation and leisure travel. It does this with an analysis of the theoretical concepts relevant to the subject area combined with a detailed investigation of current practice within the aviation and tourism industries. Each chapter is illustrated with case study material that will reinforce the understanding of the issues that are being examined.

## **Seize the Daylight**

This interdisciplinary volume presents a detailed overview of the latest advances and challenges remaining in the field of adaptive biometric systems. A broad range of techniques are provided from an international selection of pre-eminent authorities, collected together under a unified taxonomy and designed to be applicable to any pattern recognition system. Features: presents a thorough introduction to the concept of adaptive biometric systems; reviews systems for adaptive face recognition that perform self-updating of facial models using operational (unlabeled) data; describes a novel semi-supervised training strategy known as fusion-based co-training; examines the characterization and recognition of human gestures in videos; discusses a selection of learning techniques that can be applied to build an adaptive biometric system; investigates procedures for handling temporal variance in facial biometrics due to aging; proposes a score-level fusion scheme for an adaptive multimodal biometric system.

## **Lets Get Toasted Happy 75th Birthday**

## **Aerodynamic Noise**

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may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

### **The Roman Empire**

The history of the Royal Observatory, Greenwich has been revised to coincide with the Millennium. Color illustrations and updated text tell the story of Greenwich from its foundations in 1676 to its present status as Longitude 0°, the world's Prime Meridian for measuring longitude and time. The book covers the importance of longitude for navigation and traces the history of Greenwich Time, the basis of universal time-keeping. The book is co-published with the National Maritime Museum, where Derek Howse was the former Head of Navigation and Astronomy.

### **Essential Documents on International Air Carrier Liability**

### **Adaptive Biometric Systems**

This text covers basic database concepts to provide a conceptual understanding of data and databases necessary for database design and development.

### **Manual on Air Navigation Services Economics**

This volume is a presentation of all methods of legal knowledge representation from the point of view of jurisprudence as well as computer science. A new method of automatic analysis of legal texts is presented in four case studies. Law is seen as an information system with legally formalised information processes. The achieved coverage of legal knowledge in information retrieval systems has to be followed by the next step: conceptual indexing and automatic analysis of texts. Existing approaches of automatic knowledge representations do not have a proper link to the legal language in information systems. The concept-based model for semi-automatic analysis of legal texts provides this necessary connection. The knowledge base of descriptors, context-sensitive rules and meta-rules formalises properly all important passages in the text corpora for automatic analysis. Statistics and self-organising maps give assistance in knowledge acquisition. The result of the analysis is organised with automatically generated hypertext links. Four case studies show the huge potential but also some drawbacks of this approach.

## **Aviation and Tourism**

This authoritative text/reference presents a comprehensive review of algorithms and techniques for face recognition (FR), with an emphasis on systems that can be reliably used in operational environments. Insights are provided by an international team of pre-eminent experts into the processing of multispectral and hyperspectral face images captured under uncontrolled environments. These discussions cover a variety of imaging sensors ranging from state-of-the-art visible and infrared imaging sensors, to RGB-D and mobile phone image sensors. A range of different biometric modalities are also examined, including face, periocular and iris. This timely volume is a mine of useful information for researchers, practitioners and students involved in image processing, computer vision, biometrics and security.

## **Economics of Higher Education**

### **Human Factors in Civil Aviation Security Operations**

This compact book--which appeared earlier in the multivolume series A History of Private Life--is a history of the Roman Empire in pagan times. It is an interpretation setting forth in detail the universal civilization of the Romans—so much of it Hellenic—that later gave way to Christianity.

## **Airport Operations**

Aviation networks play a critical role in the success of today's airlines and airports. This book provides insight on all aspects of modern network strategies and structures, ranging from market research to hub design, operations, organization, alliances, benchmarking, and antitrust issues. Considering both the airline and the airport perspectives, the book explains the economics of connectivity or productivity-driven hub structures through basic mathematics, which helps the reader to comprehend the structural strengths and weaknesses of aviation networks. More than 100 charts help clarify the topics at hand.

## **Greenwich Time and the Longitude**

This book is a collection of the latest applications of methods from soft computing and machine learning in image processing. It explores different areas ranging from image segmentation to the object recognition using complex approaches, and includes the theory of the methodologies used to provide an overview of the application of these tools in

image processing. The material has been compiled from a scientific perspective, and the book is primarily intended for undergraduate and postgraduate science, engineering, and computational mathematics students. It can also be used for courses on artificial intelligence, advanced image processing, and computational intelligence, and is a valuable resource for researchers in the evolutionary computation, artificial intelligence and image processing communities.

## **Quality, IT and Business Operations**

## **Wordplay and Translation**

## **Airport Development Reference Manual**

Presenting the first definitive study of the subject, this Handbook of Biometric Anti-Spoofing reviews the state of the art in covert attacks against biometric systems and in deriving countermeasures to these attacks. Topics and features: provides a detailed introduction to the field of biometric anti-spoofing and a thorough review of the associated literature; examines spoofing attacks against five biometric modalities, namely, fingerprints, face, iris, speaker and gait; discusses anti-spoofing measures for multi-model biometric systems; reviews evaluation methodologies, international standards and legal and ethical issues; describes current challenges and suggests directions for future research; presents the latest work from a global selection of experts in the field, including members of the TABULA RASA project.

## **Networks in Aviation**

This authoritative and comprehensive handbook is the definitive work on the current state of the art of Biometric Presentation Attack Detection (PAD) – also known as Biometric Anti-Spoofing. Building on the success of the previous, pioneering edition, this thoroughly updated second edition has been considerably expanded to provide even greater coverage of PAD methods, spanning biometrics systems based on face, fingerprint, iris, voice, vein, and signature recognition. New material is also included on major PAD competitions, important databases for research, and on the impact of recent international legislation. Valuable insights are supplied by a selection of leading experts in the field, complete with results from reproducible research, supported by source code and further information available at an associated website. Topics and features: reviews the latest developments in PAD for fingerprint biometrics, covering optical coherence tomography (OCT) technology, and issues of interoperability; examines methods for PAD in iris recognition systems, and the application of stimulated pupillary light reflex for this purpose; discusses advancements in PAD methods for face

recognition-based biometrics, such as research on 3D facial masks and remote photoplethysmography (rPPG); presents a survey of PAD for automatic speaker recognition (ASV), including the use of convolutional neural networks (CNNs), and an overview of relevant databases; describes the results yielded by key competitions on fingerprint liveness detection, iris liveness detection, and software-based face anti-spoofing; provides analyses of PAD in fingervein recognition, online handwritten signature verification, and in biometric technologies on mobile devices includes coverage of international standards, the E.U. PSDII and GDPR directives, and on different perspectives on presentation attack evaluation. This text/reference is essential reading for anyone involved in biometric identity verification, be they students, researchers, practitioners, engineers, or technology consultants. Those new to the field will also benefit from a number of introductory chapters, outlining the basics for the most important biometrics.

### **Legal Knowledge Representation: Automatic Text Analysis in Public International and European Law**

### **Face Recognition Across the Imaging Spectrum**

[ROMANCE](#) [ACTION & ADVENTURE](#) [MYSTERY & THRILLER](#) [BIOGRAPHIES & HISTORY](#) [CHILDREN'S](#) [YOUNG ADULT](#) [FANTASY](#)  
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