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*Bastard Culture!* Mirko Tobias Schäfer 2011 The computer and particularly the Internet have been represented as enabling technologies, turning consumers into users and users into producers. The unfolding online cultural production by users has been framed enthusiastically as participatory culture. But while many studies of user activities and the use of the Internet tend to romanticize emerging media practices, this book steps beyond the usual framework and analyzes user participation in the context of accompanying popular and scholarly discourse, as well as the material aspects of design, and their relation to the practices of design and appropriation.

**Designing Mobile Autonomous Robots** John M. Holland 2004

*Digital Imaging for Visual Artists* Sally Wiener Grotta 1994 Filled with advice from leading experts in the field, Digital Imaging demystifies computerized art for photographers, artists, and illustrators. The book provides a vital overview of terms and concepts, professional techniques, computer hardware and software, and sources of information and assistance.

**Robotics, Vision and Control** Peter Corke 2011-09-05 The author has maintained two open-source MATLAB Toolboxes for more than 10 years: one for robotics and one for vision. The key strength of the Toolboxes provide a set of tools that allow the user to work with real problems, not trivial examples. For the student the book makes the algorithms accessible, the Toolbox code can be read to gain understanding, and the examples illustrate how it can be used —instant gratification in just a couple of lines of MATLAB code. The code can also be the starting point for new work, for researchers or students, by writing programs based on Toolbox functions, or modifying the Toolbox code itself. The purpose of this book is to expand on the tutorial material provided with the toolboxes, add many more examples, and to weave this into a narrative that covers robotics and computer vision separately and together. The author shows how complex problems can be decomposed

and solved using just a few simple lines of code, and hopefully to inspire up and coming researchers. The topics covered are guided by the real problems observed over many years as a practitioner of both robotics and computer vision. It is written in a light but informative style, it is easy to read and absorb, and includes a lot of Matlab examples and figures. The book is a real walk through the fundamentals of robot kinematics, dynamics and joint level control, then camera models, image processing, feature extraction and epipolar geometry, and bring it all together in a visual servo system. Additional material is provided at <http://www.petercorke.com/RVC>

**Information Technology and the U.S. Workforce** National Academies of Sciences, Engineering, and Medicine 2017-04-18 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 identifies promising research pathways moving forward.

**A Malay-English Vocabulary Containing 6500 Malay Words Or Phrases with Their English Equivalents, Together with an Appendix of Household, Nautical and Medical Terms, Etc., Etc** William Girdlestone Shellabear 2018-10-10 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

**Entrepreneurship** Bruce R. Barringer 2008 Undergraduate course in Entrepreneurship and New Venture creation. Entrepreneurship 2/e takes students on the entire journey of launching a new venture, with a unique emphasis on the front end of the entrepreneurial process.

**Robot Ethics** Patrick Lin 2014-01-10 Prominent experts from science and the humanities explore issues in robot ethics that range from sex to war. Robots today serve in many roles, from entertainer to educator to executioner. As robotics technology advances, ethical concerns become more pressing: Should robots be

programmed to follow a code of ethics, if this is even possible? Are there risks in forming emotional bonds with robots? How might society—and ethics—change with robotics? This volume is the first book to bring together prominent scholars and experts from both science and the humanities to explore these and other questions in this emerging field. Starting with an overview of the issues and relevant ethical theories, the topics flow naturally from the possibility of programming robot ethics to the ethical use of military robots in war to legal and policy questions, including liability and privacy concerns. The contributors then turn to human-robot emotional relationships, examining the ethical implications of robots as sexual partners, caregivers, and servants. Finally, they explore the possibility that robots, whether biological-computational hybrids or pure machines, should be given rights or moral consideration. Ethics is often slow to catch up with technological developments. This authoritative and accessible volume fills a gap in both scholarly literature and policy discussion, offering an impressive collection of expert analyses of the most crucial topics in this increasingly important field.

**The Robotics Primer** Maja J. Mataric 2007-08-17 A broadly accessible introduction to robotics that spans the most basic concepts and the most novel applications; for students, teachers, and hobbyists. The Robotics Primer offers a broadly accessible introduction to robotics for students at pre-university and university levels, robot hobbyists, and anyone interested in this burgeoning field. The text takes the reader from the most basic concepts (including perception and movement) to the most novel and sophisticated applications and topics (humanoids, shape-shifting robots, space robotics), with an emphasis on what it takes to create autonomous intelligent robot behavior. The core concepts of robotics are carried through from fundamental definitions to more complex explanations, all presented in an engaging, conversational style that will appeal to readers of different backgrounds. The Robotics Primer covers such topics as the definition of robotics, the history of robotics (“Where do Robots Come From?”), robot components, locomotion, manipulation, sensors, control, control architectures, representation, behavior (“Making Your Robot Behave”), navigation, group robotics, learning, and the future of robotics (and its ethical implications). To encourage further engagement, experimentation, and course and lesson design, The Robotics Primer is accompanied by a free robot programming exercise workbook that implements many of the ideas on the book on iRobot platforms. The Robotics Primer is unique as a principled, pedagogical treatment of the topic that is accessible to a broad audience; the only prerequisites are curiosity and attention. It can be used effectively in an educational setting or more informally for self-instruction. The Robotics Primer is a springboard for readers of all backgrounds—including students taking robotics as an elective outside the major, graduate students preparing to specialize in robotics, and K-12 teachers who bring robotics into their classrooms.

**Fundamental Issues of Artificial Intelligence** Vincent C. Müller 2016-06-07 This volume offers a look at the fundamental issues of present and future AI, especially from cognitive science, computer science, neuroscience and philosophy. This work examines the conditions for artificial intelligence, how these relate to the conditions for intelligence in humans and other natural agents, as well as ethical and societal problems that artificial intelligence raises or will raise. The key issues this volume investigates include the relation of AI and cognitive science, ethics of AI and robotics, brain emulation and simulation, hybrid systems and cyborgs, intelligence and intelligence testing, interactive systems, multi-agent systems, and super intelligence. Based on

the 2nd conference on "Theory and Philosophy of Artificial Intelligence" held in Oxford, the volume includes prominent researchers within the field from around the world.

**Internet of Things and Big Data Analytics Toward Next-Generation Intelligence** Nilanjan Dey 2017-08-14 This book highlights state-of-the-art research on big data and the Internet of Things (IoT), along with related areas to ensure efficient and Internet-compatible IoT systems. It not only discusses big data security and privacy challenges, but also energy-efficient approaches to improving virtual machine placement in cloud computing environments. Big data and the Internet of Things (IoT) are ultimately two sides of the same coin, yet extracting, analyzing and managing IoT data poses a serious challenge. Accordingly, proper analytics infrastructures/platforms should be used to analyze IoT data. Information technology (IT) allows people to upload, retrieve, store and collect information, which ultimately forms big data. The use of big data analytics has grown tremendously in just the past few years. At the same time, the IoT has entered the public consciousness, sparking people's imaginations as to what a fully connected world can offer. Further, the book discusses the analysis of real-time big data to derive actionable intelligence in enterprise applications in several domains, such as in industry and agriculture. It explores possible automated solutions in daily life, including structures for smart cities and automated home systems based on IoT technology, as well as health care systems that manage large amounts of data (big data) to improve clinical decisions. The book addresses the security and privacy of the IoT and big data technologies, while also revealing the impact of IoT technologies on several scenarios in smart cities design. Intended as a comprehensive introduction, it offers in-depth analysis and provides scientists, engineers and professionals the latest techniques, frameworks and strategies used in IoT and big data technologies.

*The Robot Builder's Bonanza* Gordon McComb 2001 A major revision of the bestselling "bible" of amateur robotics building--packed with the latest in servo motor technology, microcontrolled robots, remote control, Lego Mindstorms Kits, and other commercial kits. Gives electronics hobbyists fully illustrated plans for 11 complete Robots, as well as all-new coverage of Robotix-based Robots, Lego Technic-based Robots, Functionoids with Lego Mindstorms, and Location and Motorized Systems with Servo Motors. Features a pictures and parts list that accompany all projects, and material on using the BASIC Stamp and other microcontrollers.

Be Merry Christoph Publishing 2019-11-25 This Be Merry Christmas Quote Journal / Diary / Notebook makes an excellent Christmas present! This journal is 6 x 9 inches in size with 110 blank lined pages for writing down thoughts, notes, ideas, or even sketching.

Artificial Intelligence For Dummies John Paul Mueller 2018-03-16 Step into the future with AI The term "Artificial Intelligence" has been around since the 1950s, but a lot has changed since then. Today, AI is referenced in the news, books, movies, and TV shows, and the exact definition is often misinterpreted. Artificial Intelligence For Dummies provides a clear introduction to AI and how it's being used today. Inside, you'll get a clear overview of the technology, the common misconceptions surrounding it, and a fascinating look at its applications in everything from self-driving cars and drones to its contributions in the medical field. Learn about what AI has contributed to society Explore uses for AI in computer applications Discover the

limits of what AI can do Find out about the history of AI The world of AI is fascinating—and this hands-on guide makes it more accessible than ever!

**An Abridged Malay-English Dictionary (romanized)** Richard James Wilkinson 1908

The Robosapien Companion James Samans 2007-04-29 \* Dr. Mark Tilden, the inventor of Robosapien, has provided the author with exclusive access to the Robosapien v2 program. \* Provides access to the 20-plus "Easter eggs" (the hidden secrets) programmed into Robosapien. \* Over 2 million Robosapiens have sold since 2004.

**New Frontiers in Human-robot Interaction** Kerstin Dautenhahn 2011 Human- Robot Interaction (HRI) considers how people can interact with robots in order to enable robots to best interact with people. HRI presents many challenges with solutions requiring a unique combination of skills from many fields, including computer science, artificial intelligence, social sciences, ethology and engineering. We have specifically aimed this work to appeal to such a multi-disciplinary audience. This volume presents new and exciting material from HRI researchers who discuss research at the frontiers of HRI. The chapters address the human aspects of interaction, such as how a robot may understand, provide feedback and act as a social being in interaction with a human, to experimental studies and field implementations of human-robot collaboration ranging from joint action, robots practically and safely helping people in real world situations, robots helping people via rehabilitation and robots acquiring concepts from communication. This volume reflects current trends in this exciting research field.

*Aging Friendly Technology for Health and Independence* Yeunsook Lee 2010-06-09 We are living in a world full of innovations for the elderly and people with special needs to use smart assistive technologies and smart homes to more easily perform activities of daily living, to continue in social participation, to engage in entertainment and leisure activities, and to enjoy living independently. These innovations are inspired by new technologies leveraging all aspects of ambient and pervasive intelligence with related theories, technologies, methods, applications, and services on ubiquitous, pervasive, AmI, universal, mobile, embedded, wearable, augmented, invisible, hidden, context-aware, calm, amorphous, sentient, proactive, post-PC, everyday, autonomic computing from the engineering, business and organizational perspectives. In the field of smart homes and health telematics, significant research is underway to enable aging and disabled people to use smart assistive technologies and smart homes to foster independent living and to offer them an enhanced quality of life. A smart home is a vision of the future where computers and computing devices will be available naturally and unobtrusively anywhere, anytime, and by different means in our daily living, working, learning, business, and infotainment environments. Such a vision opens tremendous opportunities for numerous novel services/applications that are more immersive, more intelligent, and more interactive in both real and cyber spaces.

**Colonialism/Postcolonialism** Ania Loomba 2007-05-07 Colonialism/Postcolonialism is a comprehensive yet accessible guide to the historical and theoretical dimensions of colonial and postcolonial studies. Ania Loomba

deftly introduces and examines: key features of the ideologies and history of colonialism the relationship of colonial discourse to literature challenges to colonialism, including anticolonial discourses recent developments in postcolonial theories and histories issues of sexuality and colonialism, and the intersection of feminist and postcolonial thought debates about globalization and postcolonialism Recommended on courses across the academic disciplines and around the world, Colonialism/Postcolonialism has for some years been accepted as the essential introduction to a vibrant and politically charged area of literary and cultural study. With new coverage of emerging debates around globalization, this second edition will continue to serve as the ideal guide for students new to colonial discourse theory, postcolonial studies or postcolonial theory as well as a reference for advanced students and teachers.

Teaching STEM in the Secondary School Frank Banks 2020-12-30 This book looks at the purpose and pedagogy of STEM teaching and explores the ways in which STEM subjects can interact in the curriculum to enhance student understanding, achievement and motivation. By reaching outside their own classroom, teachers can collaborate across STEM subjects to enrich learning and help students relate school science, technology and maths to the wider world. Packed with ideas and practical details for teachers of STEM subjects, the new revised edition of this book: ■ considers what the STEM subjects contribute separately to the curriculum and how they relate to each other in the wider education of secondary school students; ■ describes and evaluates different curriculum models for STEM; ■ suggests ways in which a critical approach to the pedagogy of the classroom, laboratory and workshop can support and encourage all pupils to engage fully in STEM; ■ addresses the practicalities of introducing, organising and sustaining STEM-related activities in the secondary school; ■ looks to ways schools can manage and sustain STEM approaches in the long-term. This new revised edition is essential reading for trainee and practising teachers, those engaged in further professional development and all who wish to make the learning of science, technology, engineering and mathematics an interesting, motivating and exciting experience for their students.

**Digital Business Models** Annabeth Aagaard 2018-12-04 This innovative edited collection explores digital business models (DBMs) in theory and practice to contribute to knowledge of how companies, organizations and networks can design, implement and apply DBMs. It views DBMs in a range of contexts and forms, which can be integrated in a number of ways, and aims to inspire and enable academics, students and practitioners to seize the opportunities posed by digital business models, technologies and platforms. One of the first and comprehensive contributions to the field of DBMs and digital business model innovations (DBMI), the authors discuss the opportunities, challenges, technologies, implementation and value creation, customer and data protection processes of DBMs in different contexts.

**GGE Biplot Analysis** Weikai Yan 2002-08-28 Research data is expensive and precious, yet it is seldom fully utilized due to our ability of comprehension. Graphical display is desirable, if not absolutely necessary, for fully understanding large data sets with complex interconnectedness and interactions. The newly developed GGE biplot methodology is a superior approach to the graphical analysis

Facebook Nation Newton Lee 2014-10-16 Facebook's psychological experiments and Edward Snowden's NSA

leaks epitomize a world of increasing information awareness in the social media ecosystem. With over a billion monthly active users, Facebook as a nation is overtaking China as the largest country in the world. President Barack Obama, in his 2011 State of the Union Address, called America “the nation of Edison and the Wright brothers” and “of Google and Facebook.” U.S. Chief Information Officer Steven VanRoekel opines that America has become a “Facebook nation” that demands increased transparency and interactivity from the federal government. Ubiquitous social networks such as Facebook, Google+, Twitter, and YouTube are creating the technologies, infrastructures, and big data necessary for Total Information Awareness – a controversial surveillance program proposed by DARPA after the 9/11 attacks. NSA’s secret PRISM program has reinvigorated WikiLeaks founder Julian Assange’s accusation that “Facebook is the most appalling spying machine that has ever been invented.” Facebook CEO Mark Zuckerberg once said, “We exist at the intersection of technology and social issues.” This book offers discourse and practical advice on the privacy issue in the age of big data, business intelligence in social media, e-government and e-activism, as well as personal total information awareness. This expanded edition also includes insights from Wikipedian Emily Temple-Wood and Facebook ROI experts Dennis Yu and Alex Houq.

*Technology for Adaptive Aging* National Research Council 2004-04-25 Emerging and currently available technologies offer great promise for helping older adults, even those without serious disabilities, to live healthy, comfortable, and productive lives. What technologies offer the most potential benefit? What challenges must be overcome, what problems must be solved, for this promise to be fulfilled? How can federal agencies like the National Institute on Aging best use their resources to support the translation from laboratory findings to useful, marketable products and services? *Technology for Adaptive Aging* is the product of a workshop that brought together distinguished experts in aging research and in technology to discuss applications of technology to communication, education and learning, employment, health, living environments, and transportation for older adults. It includes all of the workshop papers and the report of the committee that organized the workshop. The committee report synthesizes and evaluates the points made in the workshop papers and recommends priorities for federal support of translational research in technology for older adults.

*Just Ordinary Robots* Lamber Royakkers 2015-08-28 A social robot is a robot that interacts and communicates with humans or other autonomous physical agents by following social behaviors and rules attached to its role. We seem to accept the use of robots that perform dull, dirty, and dangerous jobs. But how far do we want to go with the automation of care for children and the elderly, or the killin

**Introduction to Machine Learning** Ethem Alpaydin 2014-08-22 Introduction -- Supervised learning -- Bayesian decision theory -- Parametric methods -- Multivariate methods -- Dimensionality reduction -- Clustering -- Nonparametric methods -- Decision trees -- Linear discrimination -- Multilayer perceptrons -- Local models -- Kernel machines -- Graphical models -- Brief contents -- Hidden markov models -- Bayesian estimation -- Combining multiple learners -- Reinforcement learning -- Design and analysis of machine learning experiments.

*Cooperative Control: Models, Applications and Algorithms* Sergiy Butenko 2013-04-17 During the last decades, considerable progress has been observed in all aspects regarding the study of cooperative systems including modeling of cooperative systems, resource allocation, discrete event driven dynamical control, continuous and hybrid dynamical control, and theory of the interaction of information, control, and hierarchy. Solution methods have been proposed using control and optimization approaches, emergent rule based techniques, game theoretic and team theoretic approaches. Measures of performance have been suggested that include the effects of hierarchies and information structures on solutions, performance bounds, concepts of convergence and stability, and problem complexity. These and other topics were discussed at the Second Annual Conference on Cooperative Control and Optimization in Gainesville, Florida. Refereed papers written by selected conference participants from the conference are gathered in this volume, which presents problem models, theoretical results, and algorithms for various aspects of cooperative control. Audience: The book is addressed to faculty, graduate students, and researchers in optimization and control, computer sciences and engineering.

*Clause Typing in the Old Irish Verbal Complex* Carlos García-Castillero 2020-07-06 Austin's words on page 1 of his seminal work *How to do things with words* are valid for this study on clause typing in the Old Irish verbal complex: "The phenomenon to be discussed is very widespread and obvious, and it cannot fail to have been already noticed, at least here and there, by others. Yet I have not found attention paid to it specifically". Old Irish, a regular V1 language, morphologically distinguishes six clause types, to wit, declarative, relative, wh- and polar interrogative, responsive and imperative clause types. After discussing the constituency of the Old Irish verbal complex and the pragmatically marked orders, i.e. cleft-sentence and left-dislocation, the form, function, paradigmatic consistency and syntax of those clause types are then analysed in detail. The other main issues of this study are the descriptively adequate paradigm of clause types and the interaction of clause typing with subordination and with non-verbal predication in Old Irish. This monograph offers a comprehensive view of clause typing, its morphological expression and related phenomena in the earliest Insular Celtic language, and may also contribute to the general consideration of these topics in both the typological and diachronic perspectives.

*Advances in Artificial Intelligence, Software and Systems Engineering* Tareq Z. Ahram 2021-07-07 This book addresses emerging issues concerning the integration of artificial intelligence systems in our daily lives. It focuses on the cognitive, visual, social and analytical aspects of computing and intelligent technologies, and highlights ways to improve the acceptance, effectiveness, and efficiency of said technologies. Topics such as responsibility, integration and training are discussed throughout. The book also reports on the latest advances in systems engineering, with a focus on societal challenges and next-generation systems and applications for meeting them. Further, it covers some cutting-edge issues in energy, including intelligent control systems for power plant, and technology acceptance models. Based on the AHFE 2021 Conferences on Human Factors in Software and Systems Engineering, Artificial Intelligence and Social Computing, and Energy, held virtually on 25–29 July, 2021, from USA, this book provides readers with extensive information on current research and future challenges in these fields, together with practical insights into the development of innovative services

for various purposes.

*The Tropical Rain Forest* Marius Jacobs 2012-12-06 In recent years, tropical forests have received more attention and have been the subject of greater environmental concern than any other kind of vegetation. There is an increasing public awareness of the importance of these forests, not only as a diminishing source of countless products used by mankind, nor for their effects on soil stabilization and climate, but as unrivalled sources of what today we call biodiversity. Threats to the continued existence of the forests represent threats to tens of thousands of species of organisms, both plants and animals. It is all the more surprising, therefore, that there have been no major scientific accounts published in recent years since the classic handbook by Paul W. Richards, *The Tropical Rain Forest* in 1952. Some excellent popular accounts of tropical rain forests have been published including Paul Richard's *The Life of the Jungle*, and Catherine Caulfield's *In the Rainforest and Jungles*, edited by Edward Ayensu. There have been numerous, often conflicting, assessments of the rate of conversion of tropical forests to other uses and explanations of the underlying causes, and in 1978 UNESCO/UNEPI FAO published a massive report, *The Tropical Rain Forest*, which, although full of useful information, is highly selective and does not fully survey the enormous diversity of the forests.

**Contemporary Indonesian-English Dictionary** A. Ed Schmidgall Tellings 1981

**Moral Machines** Wendell Wallach 2010-07-15 "Moral Machines is a fine introduction to the emerging field of robot ethics. There is much here that will interest ethicists, philosophers, cognitive scientists, and roboticists." --Peter Danielson, *Notre Dame Philosophical Reviews* --

*Human-Machine Communication* Andrea L. Guzman 2018 This book serves as an introduction to HMC as a specific area of study within communication and to the research possibilities of HMC. The research presented here focuses on people's interactions with multiple technologies used within different contexts from a variety of epistemological and methodological approaches.

Twelve Years a Slave Solomon Northup 2021-01-01 "Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold into Slavery, where I remained, until happily rescued in the month of January, 1853, after a bondage of twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public." -an excerpt

**Encyclopedia of Computer Science and Technology** Harry Henderson 2009 Presents an illustrated A-Z encyclopedia containing approximately 600 entries on computer and technology related topics.

Machine Learning For Dummies John Paul Mueller 2021-02-09 One of Mark Cuban's top reads for better understanding A.I. (inc.com, 2021) Your comprehensive entry-level guide to machine learning While machine learning expertise doesn't quite mean you can create your own Turing Test-proof android—as in the movie *Ex Machina*—it is a form of artificial intelligence and one of the most exciting technological means of

identifying opportunities and solving problems fast and on a large scale. Anyone who masters the principles of machine learning is mastering a big part of our tech future and opening up incredible new directions in careers that include fraud detection, optimizing search results, serving real-time ads, credit-scoring, building accurate and sophisticated pricing models—and way, way more. Unlike most machine learning books, the fully updated 2nd Edition of *Machine Learning For Dummies* doesn't assume you have years of experience using programming languages such as Python (R source is also included in a downloadable form with comments and explanations), but lets you in on the ground floor, covering the entry-level materials that will get you up and running building models you need to perform practical tasks. It takes a look at the underlying—and fascinating—math principles that power machine learning but also shows that you don't need to be a math whiz to build fun new tools and apply them to your work and study. Understand the history of AI and machine learning Work with Python 3.8 and TensorFlow 2.x (and R as a download) Build and test your own models Use the latest datasets, rather than the worn out data found in other books Apply machine learning to real problems Whether you want to learn for college or to enhance your business or career performance, this friendly beginner's guide is your best introduction to machine learning, allowing you to become quickly confident using this amazing and fast-developing technology that's impacting lives for the better all over the world.

**Robotics** Bruno Siciliano 2010-08-20 Based on the successful *Modelling and Control of Robot Manipulators* by Sciavicco and Siciliano (Springer, 2000), *Robotics* provides the basic know-how on the foundations of robotics: modelling, planning and control. It has been expanded to include coverage of mobile robots, visual control and motion planning. A variety of problems is raised throughout, and the proper tools to find engineering-oriented solutions are introduced and explained. The text includes coverage of fundamental topics like kinematics, and trajectory planning and related technological aspects including actuators and sensors. To impart practical skill, examples and case studies are carefully worked out and interwoven through the text, with frequent resort to simulation. In addition, end-of-chapter exercises are proposed, and the book is accompanied by an electronic solutions manual containing the MATLAB® code for computer problems; this is available free of charge to those adopting this volume as a textbook for courses.

**Lives of Saints, from the Book of Lismore** Whitley Stokes 1890

Emotional Engineering Shuichi Fukuda 2010-11-26 In an age of increasing complexity, diversification and change, customers expect services that cater to their needs and to their tastes. *Emotional Engineering* describes how their expectations can be satisfied and managed throughout the product life cycle, if producers focus their attention more on emotion. Emotion plays a crucial role in value recognition, but it is also important for team work, which extends beyond human-human to human-machine and human-environment to enable people to cope with frequently and extensively changing situations. *Emotional Engineering* proposes the development of services beyond product realization and the creation of value on a lifetime, not just a one-off, basis. As emotion is very much multidisciplinary, chapters cover a wide range of topics that can be applied to product development, including: • emotional design in the virtual environment; • shape design and modeling; • emotional robot competence; and • affective driving. *Emotional Engineering* is intended to provide readers

with a holistic view of its research and applications, enabling them to make strategic decisions on how they can go further beyond product realization. It is recommended for all pioneers in industry, academia and government, who are trying to work with their customers to create value.