

Haptics&sorty

Hasti Seifi

Haptics: Science, Technology, Applications Ilana Nisky, Jess Hartcher-O'Brien, Michaël Wiertlewski, Jeroen Smeets, 2020-09-04 This open access book constitutes the proceedings of the 12th International Conference on Human Haptic Sensing and Touch Enabled Computer Applications, EuroHaptics 2020, held in Leiden, The Netherlands, in September 2020. The 60 papers presented in this volume were carefully reviewed and selected from 111 submissions. They were organized in topical sections on haptic science, haptic technology, and haptic applications. This year's focus is on accessibility.

Archaeologies of Touch David Parisi, 2018-02-27 A material history of haptics technology that raises new questions about the relationship between touch and media. Since the rise of radio and television, we have lived in an era defined increasingly by the electronic circulation of images and sounds. But the flood of new computing technologies known as haptic interfaces—which use electricity, vibration, and force feedback to stimulate the sense of touch—offering an alternative way of mediating and experiencing reality. In *Archaeologies of Touch*, David Parisi offers the first full history of these increasingly vital technologies, showing how the efforts of scientists and engineers over the past three hundred years have gradually remade and redefined our sense of touch. Through lively analyses of electrical machines, videogames, sex toys, sensory substitution systems, robotics, and human-computer interfaces, Parisi shows how the materiality of touch technologies has been shaped by attempts to transform humans into more efficient processors of information. With haptics becoming ever more central to emerging virtual-reality platforms (immersive bodysuits loaded with touch-stimulating actuators), wearable computers (haptic messaging systems like the Apple Watch's Taptic Engine), and smartphones (vibrations that emulate the feel of buttons and onscreen objects), *Archaeologies of Touch* offers a timely and provocative engagement with the long history of touch technology that helps us confront and question the power relations underpinning the project of giving touch its own set of technical media.

Haptic and Audio Interaction Design David McGookin, Stephen Brewster, 2006-08-18 Here are the proceedings of the First International Workshop on Haptic and Audio Interaction Design, HAID 2006. The book presents 15 revised full papers, in a variety of disciplines ranging from psychology to art, showcasing how haptics and sound can improve user interaction with computers, helping people with various kinds of disabilities and visual impairment. Also addresses psychophysics, art and leisure, and mobile applications that improve selections in virtual environments.

Haptics Lynette Jones, 2018-09-04 An accessible, nontechnical overview of active touch sensing, from sensory receptors in the skin to tactile surfaces on flat screen displays. Haptics, or haptic sensing, refers to the ability to identify and perceive objects through touch. This is active touch, involving exploration of an object with the hand rather than the passive sensing of a vibration or force on the skin. The development of new technologies, including prosthetic hands and tactile surfaces for flat screen displays, depends on our knowledge of haptics. In this volume in the MIT Press Essential Knowledge series, Lynette Jones offers an accessible overview of haptics, or active touch sensing, and its applications. Jones explains that haptics involves integrating information from touch and kinesthesia—that is, information both from sensors in the skin and from sensors in muscles, tendons, and joints. The challenge for technology is to reproduce in a virtual world some of the sensations associated with physical interactions with the environment. Jones maps the building blocks of the tactile system, the receptors in the skin and the skin itself, and how information is processed at this interface with the external world. She describes haptic perception, the processing of haptic information in the brain; haptic illusions, or distorted perceptions of objects and the body itself; tactile and haptic displays, from braille to robotic systems; tactile compensation for other sensory impairments; surface haptics, which creates virtual haptic effects on physical surfaces such as touch screens; and the development of robotic and prosthetic hands that mimic the properties of human hands.

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Haptics Technologies Abdulmotaleb El Saddik, Mauricio Orozco, Mohamad Eid, Jongeun Cha, 2011-09-15 The term “haptics” refers to the science of sensing and manipulation through touch. Multiple disciplines such as biomechanics, psychophysics, robotics, neuroscience, and software engineering converge to support haptics, and generally, haptic research is done by three communities: the robotics community, the human computer interface community, and the virtual reality community. This book is different from any other book that has looked at haptics. The authors treat haptics as a new medium rather than just a domain within one of the above areas. They describe human haptic perception and interfaces and present fundamentals in haptic rendering and modeling in virtual environments. Diverse software architectures for standalone and networked haptic systems are explained, and the authors demonstrate the vast application spectrum of this emerging technology along with its accompanying trends. The primary objective is to provide a comprehensive overview and a practical understanding of haptic technologies. An appreciation of the close relationship between the wide range of disciplines that constitute a haptic system is a key principle towards being able to build successful collaborative haptic environments. Structured as a reference to allow for fast accommodation of the issues concerned, this book is intended for researchers interested in studying touch and force feedback for use in technological multimedia systems in computer science, electrical engineering, or other related disciplines. With its novel approach, it paves the way for exploring research trends and challenges in such fields as interpersonal communication, games, or military applications.

Advances in Haptics Mehrdad Hosseini Zadeh, 2010-04-01 Haptic interfaces are divided into two main categories: force feedback and tactile. Force feedback interfaces are used to explore and modify remote/virtual objects in three physical dimensions in applications including computer-aided design, computer-assisted surgery, and computer-aided assembly. Tactile interfaces deal with surface properties such as roughness, smoothness, and temperature. Haptic research is intrinsically multi-disciplinary, incorporating computer science/engineering, control, robotics, psychophysics, and human motor control. By extending the scope of research in haptics, advances can be achieved in existing applications such as computer-aided design (CAD), tele-surgery, rehabilitation, scientific visualization, robot-assisted surgery, authentication, and graphical user interfaces (GUI), to name a few. *Advances in Haptics* presents a number of recent contributions to the field of haptics. Authors from around the world present the results of their research on various issues in the field of haptics.

Ultrasound Mid-Air Haptics for Touchless Interfaces Orestis Georgiou, William Frier, Euan Freeman, Claudio Pacchierotti, Takayuki Hoshi, 2022-09-16 Over the last decade, ultrasound mid-air haptic technology has emerged and rapidly advanced to engage multidisciplinary scientific communities within and adjacent to the haptics and HCI fields. Additionally, this haptic technology has been adopted by a number of industry sectors (e.g., automotive, virtual reality, digital signage, neuroscience research) who appear keen to exploit its unique value proposition: the ability to deliver rich haptic sensations from a distance, without the need to touch, wear or hold anything in order to enhance touchless interfaces, novel applications, and experiences. This book is the first, and currently the only one, that provides a comprehensive description of the technology, encapsulating almost all aspects relating to electronic prototyping, acoustics, haptics, psychology and perception, user experience and end-user HCI applications. Through its 18 chapters written by 30 expert co-authors, this book is therefore an excellent introduction to the technology for anyone coming from any of those fields. Specifically, the reader will benefit by getting a unique and multi-dimensional perspective on the state-of-the-art of this

enabling haptic technology while also understanding its history, relevant best research practices, and an overview of the various open challenges and opportunities.

Human Haptic Perception Martin Grunwald,2008-10-17 Haptic perception – human beings’ active sense of touch – is the most complex of human sensory systems, and has taken on growing importance within varied scientific disciplines as well as in practical industrial fields. This book's international team of authors presents the most comprehensive collection of writings on the subject published to date and cover the results of research as well as practical applications. After an introduction to the theory and history of the field, subsequent chapters are dedicated to the neuro-physiological basics as well as the psychological and clinical neuro-psychological aspects of haptic perception.

The Senses of Touch Mark Paterson,2007-10-01 Touch is the first sense to develop in the womb, yet often it is overlooked. The Senses of Touch examines the role of touching and feeling as part of the fabric of everyday, embodied experience. How can we think about touch? Problems of touch and tactility run as a continuous thread in philosophy, psychology, medical writing and representations in art, from Ancient Greece to the present day. Picking through some of these threads, the book 'feels' its way towards writing and thinking about touch as both sensory and affective experience. Taking a broadly phenomenological framework that traces tactility from Aristotle through the Enlightenment to the present day, the book examines the role of touch across a range of experiences including aesthetics, digital design, visual impairment and touch therapies. The Senses of Touch thereby demonstrates the varieties of sensory experience, and explores the diverse range of our 'senses' of touch.

Haptic Modernism Abbie Garrington,2015-05-29 This book contends that the haptic sense - combining touch, kinaesthesia and proprioception - was first fully conceptualised and explored in the modernist period, in response to radical new bodily experiences brought about by scientific, technological and

Personalizing Haptics Hasti Seifi,2019-06-15 This monograph presents a vision for haptic personalization tools and lays the foundations for achieving it. Effective haptic personalization requires a suite of tools unified by one underlying conceptual model that can easily be incorporated into users’ workflows with various applications. Toward this vision, the book introduces three mechanisms for haptic personalization and details development of two of them into: 1) an efficient interface for choosing from a large haptic library, and 2) three emotion controls for adjusting haptic signals. A series of quantitative experiments identifies five schemas (engineering, sensation, emotion, metaphor, and usage examples) for how end-users think and talk about haptic sensations and characterizes them as the underlying model for the personalization tools. Personalizing Haptics highlights the need for scalable haptic evaluation methodologies and presents two methodologies for large-scale in-lab evaluation and online crowdsourcing of haptics. While the work focuses on vibrotactile signals as the most mature and accessible type of haptic feedback for end-users, the concepts and findings extend to other categories of haptics. Taking haptics to the crowds will require haptic design practices to go beyond the current one-size-fits-all approach to satisfy users’ diverse perceptual, functional, and hedonic needs reported in the literature. This book provides a starting point for students, researchers, and practitioners in academia or industry who aim to adapt their haptic and multisensory designs to the needs and preferences of a wide audience.

Pervasive Haptics Hiroyuki Kajimoto,Satoshi Saga,Masashi Konyo,2016-04-27 This book examines the state of the art in diverse areas of haptics (touch)-related research, including the psychophysics and neurophysiology of haptics, development of haptics displays and sensors, and applications to a wide variety of fields such as industry, education, therapy, medicine, and welfare for the visually impaired. It also discusses the potential of future haptics interaction, such as haptics for emotional control and remote haptics communication. The book offers a valuable resource not only for haptics and human interface researchers, but also for developers and designers at manufacturing corporations and in the entertainment industries.

Journalism in the Age of Virtual Reality John V. Pavlik,2019-09-17 With the advent of the internet and handheld or wearable media systems that plunge the user into 360o video, augmented—or virtual reality—technology is changing how stories are told and created. In this book, John V. Pavlik argues that a new form of mediated communication has emerged: experiential news. Experiential media delivers not just news stories but also news experiences, in which the consumer engages news as a participant or virtual eyewitness in immersive, multisensory, and interactive narratives. Pavlik describes and analyzes new tools and approaches that allow journalists to tell stories that go beyond text and image. He delves into developing forms such as virtual reality, haptic technologies, interactive documentaries, and drone media, presenting the principles of how to design and frame a story using these techniques. Pavlik warns that although experiential news can heighten user engagement and increase understanding, it may also fuel the transformation of fake news into artificial realities, and he discusses the standards of ethics and accuracy needed to build public trust in journalism in the age of virtual reality. Journalism in the Age of Virtual Reality offers important lessons for practitioners seeking to produce quality experiential news and those interested in the ethical considerations that experiential media raise for journalism and the public.

Making Sense of Haptics Femke Elise van Beek,2018-01-05 Tele operation systems, in which robots are controlled remotely, are a potential solution to performing tasks in remote, small, and hazardous environments. However, there is a big disadvantage to these systems; as the direct connection between the human and the environment is lost and operators are deprived of their sense of touch. The recreation of touch feedback through haptic devices is a possible solution, however haptic devices are far from perfect and improving their design is usually a slow trial-and-error process. This book describes 7 scientific studies that try to break this slow loop by using a deductive approach. Through investigating fundamental properties of human haptic perception using psychophysical paradigms, general knowledge on haptic perception of force, position, movement and hardness was gained. The resulting information can be applied to many different haptic devices. Consequently haptic systems can be more easily designed in an intuitive, human-centered way.

Mobile Story Making in an Age of Smartphones Max Schleser,Marsha Berry,2018-04-07 The participatory turn in media, arts and design along with interrelated developments in the proliferation of social and network media have changed our understanding of the contemporary mediascape. Mobile Story Making in an Age of Smartphones reveals how smartphones and storytelling are forming a symbiosis that empowers twenty-first century citizens and creatives around the world. The edited collection further develops definitions and debate around creative mobile media and its impact on media, art and design. It brings together mobile artists, digital ethnographers, filmmakers working with smartphones, illustrators, screenwriters as well as musicians utilizing apps and mobile devices, who explore new directions in the creative arts with a focus on screen production. Lastly, it demonstrates how mobile devices and smartphones can make a difference in peoples’ lives and catalyses creativity in order to tackle current socio-cultural issues.

Haptic Interaction Hiroyuki Kajimoto,Hideyuki Ando,Ki-Uk Kyung,2015-06-29 This book is aimed not only at haptics and human interface researchers, but also at developers and designers from manufacturing corporations and the entertainment industry who are working to change our lives. This publication comprises the proceedings of the first International AsiaHaptics conference, held in Tsukuba, Japan, in 2014. The book describes the state of the art of the diverse haptics- (touch-) related research, including scientific research into haptics perception and illusion, development of haptics devices, and applications for a wide variety of fields such as education, medicine, telecommunication, navigation, and entertainment.

The Sense of Touch and Its Rendering Antonio Bicchi,Martin Buss,Marc O. Ernst,Angelika Peer,2008-05-23 Sense of Touch and its Rendering presents a unique and interdisciplinary approach highlighting the field of haptic research from a neuropsychological as well as a technological point of view. This edited book is the outcome of the TOUCH-HapSys European research project and provides an important contribution towards a new generation of high-fidelity haptic display technologies. The book is structured in two parts: A. Fundamental Psychophysical and Neuropsychological Research and B. Technology and Applications. The two parts are not however separated, and the many connections and synergies between the two complementary domains of research are highlighted in the text. The eleven chapters discuss the recent advances in the study of human haptic (kinaesthetic, tactile, temperature) and multimodal (visual, auditory, haptic) perception mechanisms. Besides the theoretical advancement, the contributions survey the state of the art in the field, report a number of practical applications to real systems, and discuss possible future developments.

Haptics: Generating and Perceiving Tangible Sensations, Part II Astrid M. L. Kappers, Jan BF Van Erp, Wouter M Bergmann Tiest, Frans CT Van Der Helm, 2010-06-30 This book constitutes the proceedings of the conference on Haptics: Generating and Perceiving Tangible Sensations, held in Amsterdam, Netherlands in July 2010.

Haptics: Science, Technology, and Applications Domenico Prattichizzo, Hiroyuki Shinoda, Hong Z. Tan, Emanuele Ruffaldi, Antonio Frisoli, 2018-06-04 The two-volume set LNCS 10893 and 10894 constitutes the refereed proceedings of the 11th International Conference EuroHaptics 2018, held in Pisa, Italy, in June 2018. The 95 papers (40 oral presentations and 554 poster presentations) presented were carefully reviewed and selected from 138 submissions. These proceedings reflect the multidisciplinary nature of EuroHaptics and cover all aspects of haptics, including neuroscience, psychophysics, perception, engineering, computing, interaction, virtual reality and arts.

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