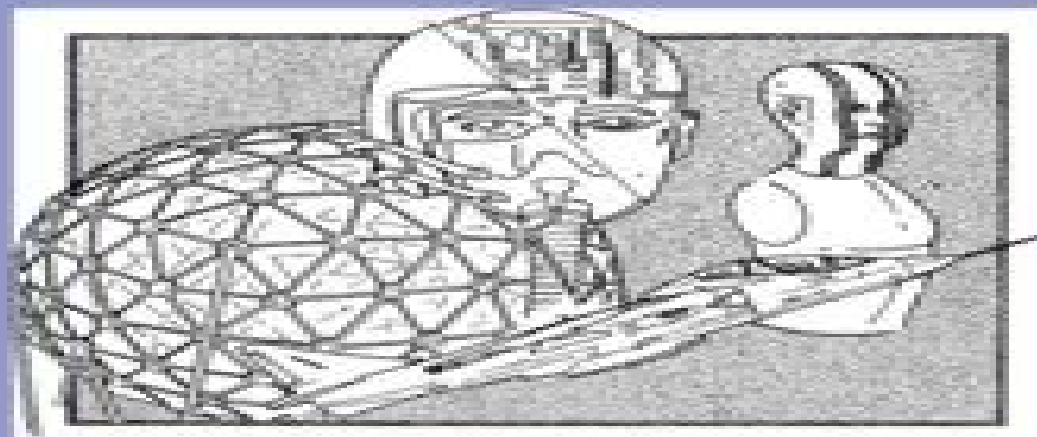


BINAURAL AND SPATIAL HEARING  
in  
REAL AND VIRTUAL ENVIRONMENTS



Edited by  
Robert H. Gilkey  
Timothy R. Anderson

# Binaural And Spatial Hearing In Real And Virtual Environments

**Ville Pulkki, Matti Karjalainen**



## **Binaural And Spatial Hearing In Real And Virtual Environments:**

Binaural and Spatial Hearing in Real and Virtual Environments Robert Gilkey, Timothy R. Anderson, 2014-02-25 The current popular and scientific interest in virtual environments has provided a new impetus for investigating binaural and spatial hearing. However, the many intriguing phenomena of spatial hearing have long made it an exciting area of scientific inquiry. Psychophysical and physiological investigations of spatial hearing seem to be converging on common explanations of underlying mechanisms. These understandings have in turn been incorporated into sophisticated yet mathematically tractable models of binaural interaction. Thus binaural and spatial hearing is one of the few areas in which professionals are soon likely to find adequate physiological explanations of complex psychological phenomena that can be reasonably and usefully approximated by mathematical and physical models. This volume grew out of the Conference on Binaural and Spatial Hearing, a four-day event held at Wright Patterson Air Force Base in response to rapid developments in binaural and spatial hearing research and technology. Meant to be more than just a proceedings, it presents chapters that are longer than typical proceedings papers and contain considerably more review material, including extensive bibliographies in many cases. Arranged into topical sections, the chapters represent major thrusts in the recent literature. The authors of the first chapter in each section have been encouraged to take a broad perspective and review the current state of literature. Subsequent chapters in each section tend to be somewhat more narrowly focused and often emphasize the authors' own work. Thus each section provides overview, background, and current research on a particular topic. This book is significant in that it reviews the important work during the past 10 to 15 years and provides greater breadth and depth than most of the previous works.

**Blackwell Handbook of Sensation and Perception** E. Bruce Goldstein, 2008-04-15 This state-of-the-art handbook provides an authoritative overview of the field of perception with special emphasis on new developments and trends. Surveys the entire field of perception, including vision, hearing, taste, olfaction, and cutaneous sensibility. Ideal for researchers and teachers looking for succinct state-of-the-art overviews of areas outside their speciality and for anyone wanting to know about current research and future trends. Uses a tutorial approach that results in a balanced description of topics. A Selected Readings section points to general references that provide more detailed treatments of each topic. Additional Topics provide references to important topics. Written by noted authorities in the field. Now available in full text online via XreferPlus, the award-winning reference library on the web from Xrefer. For more information, visit [www.xreferplus.com](http://www.xreferplus.com).

**Communication Acoustics** Ville Pulkki, Matti Karjalainen, 2015-04-30 In communication acoustics, the communication channel consists of a sound source, a channel (acoustic and/or electric), and finally the receiver, the human auditory system, a complex and intricate system that shapes the way sound is heard. Thus, when developing techniques in communication acoustics, such as in speech audio and aided hearing, it is important to understand the time-frequency space resolution of hearing. This book facilitates the reader's understanding and development of speech and audio techniques based on our

knowledge of the auditory perceptual mechanisms by introducing the physical signal processing and psychophysical background to communication acoustics It then provides a detailed explanation of sound technologies where a human listener is involved including audio and speech techniques sound quality measurement hearing aids and audiology Key features Explains perceptually based audio the authors take a detailed but accessible engineering perspective on sound and hearing with a focus on the human place in the audio communications signal chain from psychoacoustics and audiology to optimizing digital signal processing for human listening Presents a wide overview of speech from the human production of speech sounds and basics of phonetics to major speech technologies recognition and synthesis of speech and methods for speech quality evaluation Includes MATLAB examples that serve as an excellent basis for the reader's own investigations into communication acoustics interaction schemes which intuitively combine touch vision and voice for lifelike interactions

*Stereoscopic Displays and Virtual Reality Systems*, 2002      *Sound Source Localization* Richard R. Fay, 2006-05-20 The Springer Handbook of Auditory Research presents a series of comprehensive and synthetic reviews of the fundamental topics in modern auditory research The volumes are aimed at all individuals with interests in hearing research including advanced graduate students postdoctoral researchers and clinical investigators The volumes are intended to introduce new investigators to important aspects of hearing science and to help established investigators to better understand the fundamental theories and data in fields of hearing that they may not normally follow closely Each volume presents a particular topic comprehensively and each serves as a synthetic overview and guide to the literature As such the chapters present neither exhaustive data reviews nor original research that has not yet appeared in peer reviewed journals The volumes focus on topics that have developed a solid data and conceptual foundation rather than on those for which a literature is only beginning to develop New research areas will be covered on a timely basis in the series as they begin to mature      *Advances in Sound Localization* Pawel Strumillo, 2011-04-11 Sound source localization is an important research field that has attracted researchers' efforts from many technical and biomedical sciences Sound source localization SSL is defined as the determination of the direction from a receiver but also includes the distance from it Because of the wave nature of sound propagation phenomena such as refraction diffraction diffusion reflection reverberation and interference occur The wide spectrum of sound frequencies that range from infrasounds through acoustic sounds to ultrasounds also introduces difficulties as different spectrum components have different penetration properties through the medium Consequently SSL is a complex computation problem and development of robust sound localization techniques calls for different approaches including multisensor schemes null steering beamforming and time difference arrival techniques The book offers a rich source of valuable material on advances on SSL techniques and their applications that should appeal to researchers representing diverse engineering and scientific disciplines      **Spatial Hearing Abilities in Adults with Bilateral Cochlear Implants** Smita Satish Agrawal, 2008      **Roadmapping Extended Reality** Mariano Alcañiz, Marco Sacco, Jolanda

G. Tromp, 2022-07-26 ROADMAPPING EXTENDED REALITY This book offers a comprehensive overview of the technological aspects of Extended Realities XR and discusses the main challenges and future directions in the field This book is important and timely XR technologies have overcome the 3 main aspects that were holding it back from mainstream adoption cost cables and size However there are many aspects of XR technologies that are now going to be explored and developed that still need urgent research in terms of security privacy health and safety long term effects addiction risks and age related developmental concerns and the aim of the book is to inform all readers of these open issues and challenges There are currently a great number of interdisciplinary researchers and developers working in the XR R D field Recently XR technologies moved from the Gartner Hype Cycle onto the Plateau of Productivity on the Gartner Hype Cycle signaling that the fundamental XR technologies are now deemed mature technologies and ready for deployment in a wide variety of application areas Corroborated by the fact that XR technologies are part of the future Metaverse a concept that went rapidly mainstream during the time of writing of this book Roadmapping Extended Reality is divided into two parts 1 fundamentals and 2 applications The first part covers the main technological aspects of XR The chapters in this section review and discuss relevant fundamental concepts of XR the actual state of the art and future challenges The second part of the book focuses on covering a wide range of applications of XR including a future roadmap All in all the book offers a snapshot of the state of the art in XR and addresses the needs of a multidisciplinary audience working in both academia and the industry as well as stakeholders at government agencies and non profit organizations Audience This book is aimed at academic and industrial developers exploring and developing applications in the XR VR AR AI smart IoT 4th Industrial Revolution space including those that are solving technology requirements human factors evaluation methodology advances and ROI investigations

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*Computational Auditory Scene Analysis* Deliang Wang, DeLiang Wang, Guy J. Brown, Guy Story Brown, 2006-09-29 Provides a comprehensive and coherent account of the state of the art in CASA in terms of the underlying principles the algorithms and system architectures that are employed and the potential applications of this exciting new technology **Aerial Sound**

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