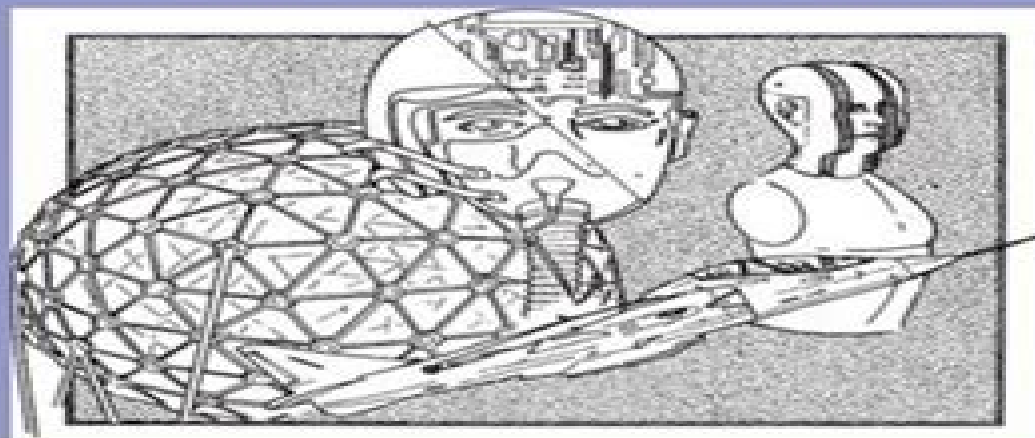


# BINAURAL AND SPATIAL HEARING in REAL AND VIRTUAL ENVIRONMENTS



Edited by  
Robert H. Gilkey  
Timothy R. Anderson

# Binaural Spatial Hearing Virtual Environments

**Durand R. Begault, Francis Rumsey**



## **Binaural Spatial Hearing 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).

## **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.

**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.

*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. *Spatial Auditory Processing in Pinnipeds* Maria M. Holt, 2006. An Anthology of Articles on Spatial Sound Techniques: Multichannel audio technologies Durand R.

Begault, Francis Rumsey, 2004      **Oxford Handbook of Developmental Behavioral Neuroscience** Mark Blumberg, John Freeman, Scott Robinson, 2009-11-10 The Oxford Handbook of Developmental Behavioral Neuroscience is a seminal reference work in the burgeoning field of developmental behavioral neuroscience which has emerged in recent years as an important sister discipline to developmental psychobiology This handbook part of the Oxford Library of Neuroscience provides an introduction to recent advances in research at the intersection of developmental science and behavioral neuroscience while emphasizing the central research perspectives of developmental psychobiology Contributors to the Oxford Handbook of Developmental Behavioral Neuroscience are drawn from a variety of fields including developmental psychobiology neuroscience comparative psychology and evolutionary biology demonstrating the opportunities to advance our understanding of behavioral and neural development through enhanced interactions among parallel disciplines In a field ripe for collaboration and integration the Oxford Handbook of Developmental Behavioral Neuroscience provides an unprecedented overview of conceptual and methodological issues pertaining to comparative and developmental neuroscience that can serve as a roadmap for researchers and a textbook for educators Its broad reach will spur new insights and compel new collaborations in this rapidly growing field      *Spatial Hearing Abilities in Adults with Bilateral Cochlear Implants* Smita Satish Agrawal, 2008      *AES*; , 2004      **Virtual Acoustics and 3-D Sound in Multimedia Signal Processing** Jyri Huopaniemi, 1999      **Proceedings of the 20th Annual International Conference of the IEEE Engineering in Medicine and Biology Society** IEEE Engineering in Medicine and Biology Society. Conference, 1998      **An Anthology of Articles on Spatial Sound Techniques** Durand R. Begault, Francis Rumsey, 2004      *Computational Auditory Scene Analysis* Deliang Wang, DeLiang Wang, Guy J. 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      [The Journal of the Acoustical Society of America](#) Acoustical Society of America, 2006      **Human Auditory Perception of Trajectories of Motion in a Simulated Open-field Environment** Joshua Alexander Miele, 2003      [Representation of Auditory Space by Cortical Neurons in Awake and Anesthetized Cats](#) Brian James Mickey, 2004      *Computational Models of Auditory Function* Steven Greenberg, Malcolm Slaney, 2001      **Journal of the Audio Engineering Society** Audio Engineering Society, 2009 Directory of members published as pt 2 of Apr 1954 issue

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