

AUDITORY SCENE ANALYSIS

The Perceptual Organization of Sound



Albert S. Bregman

Auditory Scene Analysis The Perceptual Organization Of Sound

Dik J. Hermes



Auditory Scene Analysis The Perceptual Organization Of Sound:

Auditory Scene Analysis Albert S. Bregman, 1994-09-29 Auditory Scene Analysis addresses the problem of hearing complex auditory environments using a series of creative analogies to describe the process required of the human auditory system as it analyzes mixtures of sounds to recover descriptions of individual sounds In a unified and comprehensive way Bregman establishes a theoretical framework that integrates his findings with an unusually wide range of previous research in psychoacoustics speech perception music theory and composition and computer modeling [Auditory Scene Analysis](#)

Albert S. Bregman, 1994 **Auditory Scene Analysis** Albert S. Bregman, 1990-01-01 Auditory Scene Analysis addresses the problem of hearing in complex auditory environments It uses a series of creative analogies to describe the process required of the human auditory system as it analyzes mixtures of sounds to recover descriptions of individual sounds Unified and comprehensive it establishes a theoretical framework that integrates Bregman's findings with an unusually wide range of previous research in psychoacoustics speech perception music theory and composition and computer modeling The core of the book explains how primitive auditory processes employ a set of principles analogous to those employed in computer pattern recognition that use correlations in acoustic inputs received simultaneously and successively to conclude that they must have been caused by the same environmental event Bregman shows how the resulting organization affects perceptions and demonstrates that the same principles apply in laboratory studies of simple signals in music composition and in speech perception He examines schema based scene analysis relations between vision and audition and problems with current theories concerning the duplex perception of speech He concludes by summarizing what is known about auditory scene analysis and suggests directions for future study Albert Bregman is Professor of Psychology at McGill University A Bradford Book **CD 1130 (Auditory Scene Analysis)**. Albert S. Bregman, 2002* [Demonstrations of Auditory Scene Analysis](#)

Albert S. Bregman, Pierre A. Ahad, Auditory Perception Laboratory, 1995 Demonstrations illustrate principles that lie behind the perceptual organization of sound described in the book Auditory Scene Analysis The Perceptual Organization of Sound Bregman 1990 In each description of the booklet there is a section entitled Reading This applies to chapters and page numbers in this book and other publications [Auditory Scene Analysis; med CD](#) Albert S. Bregman, 2001 *The Perceptual Structure of Sound* Dik J. Hermes, 2023-06-10 This book presents a comprehensive review of how acoustic waves are processed by the auditory system into structured sounds such as musical melodies speech utterances or environmental sounds After an introduction an overview is given of how the ears distribute acoustic information over a large array of frequency channels that contain the auditory information used by the central nervous system to generate a mental image of what is happening around the listener This process called auditory scene analysis consists of two stages In the first stage auditory units are formed such as musical tones and speech syllables Each auditory unit is perceived at a well defined moment in time the beat location of that auditory unit Moreover from this process of auditory unit formation the auditory

attributes of these auditory units emerge such as their timbre their pitch their loudness and their perceived location Each of these attributes is discussed in the corresponding chapter In the second stage of auditory scene analysis auditory stream formation the successive auditory units are integrated into auditory streams i e temporally structured sequences of auditory units that are perceived as emanating from one and the same sound source Examples of such auditory streams are musical melodies and the utterances of one speaker The temporal structure of an auditory stream its rhythm is determined by the beat locations of its auditory units The role played by the auditory attributes of the consecutive auditory units is discussed The melodies of musical streams and the intonation contours of spoken utterances emerge from this process In music the beats of parallel streams generally fit into a metric pattern and depending on harmony simultaneous tones can be perceived as consonant or dissonant Finally the book contains many sound examples including the MATLAB scripts with which they are generated

Computational Analysis of Sound Scenes and Events Tuomas Virtanen, Mark D. Plumbley, Dan Ellis, 2017-09-21 This book presents computational methods for extracting the useful information from audio signals collecting the state of the art in the field of sound event and scene analysis The authors cover the entire procedure for developing such methods ranging from data acquisition and labeling through the design of taxonomies used in the systems to signal processing methods for feature extraction and machine learning methods for sound recognition The book also covers advanced techniques for dealing with environmental variation and multiple overlapping sound sources and taking advantage of multiple microphones or other modalities The book gives examples of usage scenarios in large media databases acoustic monitoring bioacoustics and context aware devices Graphical illustrations of sound signals and their spectrographic representations are presented as well as block diagrams and pseudocode of algorithms

Probing auditory scene analysis Elyse S Sussman, Susan Denham, Susann Deike, 2015-02-11 In natural environments the auditory system is typically confronted with a mixture of sounds originating from different sound sources As sounds spread over time the auditory system has to continuously decompose competing sounds into distinct meaningful auditory objects or auditory streams referring to certain sound sources This decomposition work which was termed by Albert Bregman as Auditory scene analysis ASA involves two kinds of grouping to be done Grouping based on simultaneous cues such as harmonicity and on sequential cues such as similarity in acoustic features over time Understanding how the brain solves these tasks is a fundamental challenge facing auditory scientist In recent years the topic of ASA was broadly investigated in different fields of auditory research including a wide range of methods studies in different species and modeling Despite the advance in understanding ASA it still proves to be a major challenge for auditory research This includes verifying whether experimental findings are transferable to more realistic auditory scenes A central approach in understanding ASA is the use of certain stimulus parameters that produce an ambiguous percept The advantage of such an approach is that different perceptual organizations can be studied without varying physical stimulus parameters Additionally the perception of ambiguous stimuli can be volitionally controlled

by intention or task By using this one can mirror real hearing situations where listeners intent to identify and to localize auditory sources Recently it was also found that in classical auditory streaming sequences perceptual ambiguity was not restricted to but was observed over a broad range of stimulus parameters The proposed Research Topic pursues to bring together scientist in the different fields of auditory research whose work addresses the issue of perceptual ambiguity Researchers were welcome to contribute experimental reports computational modeling and reviews that consider auditory ambiguity in its modality specific characteristics as well as in comparison to visual ambiguous figures The overall goal of contributions was to consider the experimental findings from the perspective of real auditory scenes In a broader sense the Research Topic was open for contributions which are related to the issue of active listening in complex scenes

The Senses: A Comprehensive Reference, 2020-09-30 The Senses A Comprehensive Reference Second Edition Seven Volume Set is a comprehensive reference work covering the range of topics that constitute current knowledge of the neural mechanisms underlying the different senses This important work provides the most up to date cutting edge comprehensive reference combining volumes on all major sensory modalities in one set Offering 264 chapters from a distinguished team of international experts The Senses lays out current knowledge on the anatomy physiology and molecular biology of sensory organs in a collection of comprehensive chapters spanning 4 volumes Topics covered include the perception psychophysics and higher order processing of sensory information as well as disorders and new diagnostic and treatment methods Written for a wide audience this reference work provides students scholars medical doctors as well as anyone interested in neuroscience a comprehensive overview of the knowledge accumulated on the function of sense organs sensory systems and how the brain processes sensory input As with the first edition contributions from leading scholars from around the world will ensure The Senses offers a truly international portrait of sensory physiology The set is the definitive reference on sensory neuroscience and provides the ultimate entry point into the review and original literature in Sensory Neuroscience enabling students and scientists to delve into the subject and deepen their knowledge All inclusive coverage of topics updated edition offers readers the only current reference available covering neurobiology physiology anatomy and molecular biology of sense organs and the processing of sensory information in the brain Authoritative content world leading contributors provide readers with a reputable dynamic and authoritative account of the topics under discussion Comprehensive style content in depth complex coverage of topics offers students at upper undergraduate level and above full insight into topics under discussion

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