

Michael Vorländer

Auralization

Fundamentals of Acoustics, Modelling,
Simulation, Algorithms and Acoustic
Virtual Reality

Second Edition



Auralization Fundamentals Of Acoustics Modelling Simulation Algorithms And Acoustic Virtual Reality Rwthedition

**Weinzierl, Stefan , Vorländer, Michael
, Zotter, Franz, Maempel, Hans-
Joachim , Lindau, Alexander**

Auralization Fundamentals Of Acoustics Modelling Simulation Algorithms And Acoustic Virtual Reality **Rwthedition:**

Auralization Michael Vorländer, 2020-08-28 Auralization is the technique of creation and reproduction of sound on the basis of computer data. With this tool it is possible to predict the character of sound signals which are generated at the source and modified by reinforcement propagation and transmission in systems such as rooms, buildings, vehicles or other technical devices. This book is organized as a comprehensive collection of the basics of sound and vibration acoustic modelling, simulation, signal processing and audio reproduction. With some mathematical prerequisites the readers will be able to follow the main strategy of auralization easily and work out their own implementations of auralization in various fields of application in architectural acoustics, acoustic engineering, sound design and virtual reality. For readers interested in basic research the technique of auralization may be useful to create sound stimuli for specific investigations in linguistic, medical, neurological and psychological research and in the field of human machine interaction. *Auralization* Michael Vorländer, 2007-10-27 Auralization is the creation of audible acoustic sceneries from computer generated data. The term auralization is to be understood as being analogue to the well known technique of visualization. In visual illustration of scenes data or any other meaningful information in movie animation and in computer graphics we describe the process of making visible as visualization. In acoustics auralization is taking place when acoustic effects, primary sound signals or means of sound reinforcement or sound transmission are processed to be presented by using electro acoustic equipment. This book is organized as comprehensive collection of basics, methodology and strategies of acoustic simulation and auralization. With mathematical background of advanced students the reader will be able to follow the main strategy of auralization easily and work out own implementations of auralization in various fields of applications in acoustic engineering, sound design and virtual reality. For readers interested in basic research the technique of auralization may be useful to create sound stimuli for specific investigations in linguistic, medical, neurological and psychological research and in the field of human machine interaction.

Proceedings of the EAA Joint Symposium on Auralization and Ambisonics 2014 Weinzierl, Stefan, Vorländer, Michael, Zotter, Franz, Maempel, Hans-Joachim, Lindau, Alexander, 2014. In consideration of the remarkable intensity of research in the field of Virtual Acoustics including different areas such as sound field analysis and synthesis, spatial audio technologies and room acoustical modeling and auralization it seemed about time to organize a second international symposium following the model of the first EAA Auralization Symposium initiated in 2009 by the acoustics group of the former Helsinki University of Technology now Aalto University. Additionally research communities which are focused on different approaches to sound field synthesis such as Ambisonics or Wave Field Synthesis have in the meantime moved closer together by using increasingly consistent theoretical frameworks. Finally the quality of virtual acoustic environments is often considered as a result of all processing stages mentioned above increasing the need for discussions on consistent strategies.

for evaluation. Thus it seemed appropriate to integrate two of the most relevant communities i.e. to combine the 2nd International Auralization Symposium with the 5th International Symposium on Ambisonics and Spherical Acoustics. The Symposia on Ambisonics initiated in 2009 by the Institute of Electronic Music and Acoustics of the University of Music and Performing Arts in Graz were traditionally dedicated to problems of spherical sound field analysis and re-synthesis strategies for the exchange of ambisonics encoded audio material and more than other conferences in this area the artistic application of spatial audio systems. This publication contains the official conference proceedings. It includes 29 manuscripts which have passed a 3 stage peer review with a board of about 70 international reviewers involved in the process. Each contribution has already been published individually with a unique DOI on the DepositOnce digital repository of TU Berlin. Some conference contributions have been recommended for resubmission to Acta Acustica united with Acustica to possibly appear in a Special Issue on Virtual Acoustics in late 2014. These are not published in this collection.

Partitioned convolution algorithms for real-time auralization Frank Wefers, 2015-05-11. This work discusses methods for efficient audio processing with finite impulse response FIR filters. Such filters are widely used for high quality acoustic signal processing e.g. for headphone or loudspeaker equalization in binaural synthesis in spatial sound reproduction techniques and for the auralization of reverberant environments. This work focuses on real time applications where the audio processing is subject to minimal delays/latencies. Different fast convolution concepts: transform based, interpolation based and number theoretic, which are used to implement FIR filters efficiently, are examined regarding their applicability in real time. These fast elementary techniques can be further improved by the concept of partitioned convolution. This work introduces a classification and a general framework for partitioned convolution algorithms and analyzes the algorithmic classes which are relevant for real time filtering. Elementary concepts which do not partition the filter impulse response e.g. regular Overlap Add and Overlap Save convolution and advanced techniques which partition filters uniformly and non uniformly. The algorithms are thereby regarded in their analytic complexity, their performance on target hardware, the optimal choice of parameters, assemblies of multiple filters, multi channel processing and the exchange of filter impulse responses without audible artifacts. Suitable convolution techniques are identified for different types of audio applications ranging from resource aware auralizations on mobile devices to extensive room acoustics audio rendering using dedicated multi processor systems.

Sonic Interactions in Virtual Environments Michele Geronazzo, Stefania Serafin, 2022-10-13. This open access book tackles the design of 3D spatial interactions in an audio centered and audio first perspective providing the fundamental notions related to the creation and evaluation of immersive sonic experiences. The key elements that enhance the sensation of place in a virtual environment VE are Immersive audio, the computational aspects of the acoustical space, properties of Virtual Reality VR technologies, Sonic interaction, the human computer interplay through auditory feedback in VE. VR systems naturally support multimodal integration impacting different application domains. *Sonic Interactions in Virtual Environments* will feature state of the art

research on real time auralization sonic interaction design in VR quality of the experience in multimodal scenarios and applications Contributors and editors include interdisciplinary experts from the fields of computer science engineering acoustics psychology design humanities and beyond Their mission is to shape an emerging new field of study at the intersection of sonic interaction design and immersive media embracing an archipelago of existing research spread in different audio communities and to increase among the VR communities researchers and practitioners the awareness of the importance of sonic elements when designing immersive environments

Psychoakustické testy v stavebnej akustike Monika Rychtarikova,2015-05-14 Kniha prin sa preh ad problematiky v oblasti posluchov ch testov pri pos den zvukovej izol cie stien preh ad psychoakustick ch met d z kladn inform cie o pos den vzduchovej nepriezvu nosti a v sledky v skumu v s vislosti s n vrhom novej jedno selnej veli iny pre pos denie medzibytov ch stien Acoustics Today ,2008

Physically Based Real-Time Auralization of Interactive Virtual Environments Dirk Schröder,2011 Analogous to visualization the auralization of virtual environments describes the simulation of sound propagation inside enclosures where methods of Geometrical Acoustics are mostly applied for a high quality synthesis of aural stimuli that go along with a certain realistic behavior In the course of this thesis the design and implementation of the real time room acoustics simulation software RAVEN will be described which is a vital part of the implemented 3D sound rendering system of RWTH Aachen University s immersive Virtual Reality system RAVEN relies on present day knowledge of room acoustical simulation techniques and enables a physically accurate auralization of sound propagation in complex environments including important wave effects such as sound scattering airborne sound insulation between rooms and sound diffraction Despite this realistic sound field rendering not only spatially distributed and freely movable sound sources and receivers are supported at runtime but also modifications and manipulations of the environment itself All major features are evaluated by investigating both the overall accuracy of the room acoustics simulation and the performance of implemented algorithms and possibilities for further simulation optimizations are identified by assessing empirical studies of subjects operating in immersive environments

A Real-time Virtual Reality Building Acoustic Auralization Framework for Psychoacoustic Experiments with Contextual and Interactive Features Anne Heimes,Muhammad Imran,Michael Vorländer,2019 Virtual Acoustics and 3-D Sound in Multimedia Signal Processing Jyri Huopaniemi,1999

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