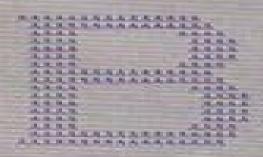
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Artificial Perception and Music Recognition





Artificial Perception And Music Recognition

Godfried T. Toussaint

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Artificial Perception and Music Recognition Andranick S. Tanguiane, 1993-10-20 This monograph presents the author s studies in music recognition aimed at developing a computer system for automatic notation of performed music The performance of such a system is supposed to be similar to that of speech recognition systems acoustical data at the input and music scoreprinting at the output The approach to pattern recognition employed is that of artificial perception based on self organizing input data in order to segregate patterns before their identification by artificial intelligencemethods. The special merit of the approach is that it finds optimal representations of data instead of directly recognizing patterns Cognition of Basic Musical Structures David Temperley, 2004-08-20 In this book David Temperley addresses a fundamental question about music cognition how do we extract basic kinds of musical information such as meter phrase structure counterpoint pitch spelling harmony and key from music as we hear it Taking a computational approach Temperley develops models for generating these aspects of musical structure. The models he proposes are based on preference rules which are criteria for evaluating a possible structural analysis of a piece of music A preference rule system evaluates many possible interpretations and chooses the one that best satisfies the rules After an introductory chapter Temperley presents preference rule systems for generating six basic kinds of musical structure meter phrase structure contrapuntal structure harmony and key as well as pitch spelling the labeling of pitch events with spellings such as A flat or G sharp He suggests that preference rule systems not only show how musical structures are inferred but also shed light on other aspects of music He substantiates this claim with discussions of musical ambiguity retrospective revision expectation and music outside the Western canon rock and traditional African music He proposes a framework for the description of musical styles based on preference rule systems and explores the relevance of preference rule systems to higher level aspects of music such as musical schemata narrative and drama and musical tension Signal Processing Methods for Music Transcription Anssi Klapuri, Manuel Davy, 2007-02-26 Signal Processing Methods for Music Transcription is the first book dedicated to uniting research related to signal processing algorithms and models for various aspects of music transcription such as pitch analysis rhythm analysis percussion transcription source separation instrument recognition and music structure analysis Following a clearly structured pattern each chapter provides a comprehensive review of the existing methods for a certain subtopic while covering the most important state of the art methods in detail The concrete algorithms and formulas are clearly defined and can be easily implemented and tested A number of approaches are covered including for example statistical methods perceptually motivated methods and unsupervised learning methods. The text is enhanced by a common reference and index

Robotic Musicianship Gil Weinberg, Mason Bretan, Guy Hoffman, Scott Driscoll, 2020-02-07 This book discusses the principles methodologies and challenges of robotic musicianship through an in depth review of the work conducted at the Georgia Tech Center for Music Technology GTCMT where the concept was first developed Robotic musicianship is a

relatively new research field that focuses on the design and development of intelligent music making machines The motivation behind the field is to develop robots that not only generate music but also collaborate with humans by listening and responding in an expressive and creative manner This combination of human and machine creativity has the potential to surprise and inspire us to play listen compose and think about music in new ways The book provides an in depth view of the robotic platforms designed at the GTCMT Robotic Musicianship Group including the improvisational robotic percussionists Haile and Shimon the personal robotic companion Shimi and a number of wearable robots such as the Robotic Drumming Prosthesis The Third Drumming Arm and the Skywalker Piano Hand The book discusses numerous research studies based on these platforms in the context of five main principles Listen like a Human Play Like a Machine Be Social Watch and Learn Applications of Conceptual Spaces Frank Zenker, Peter Gärdenfors, 2015-04-16 This volume provides an overview of applications of conceptual spaces theory beginning with an introduction to the modeling tool that unifies the chapters The first section explores issues of linguistic semantics including speakers negotiation of meaning Further sections address computational and ontological aspects of constructing conceptual spaces while the final section looks at philosophical applications Domains include artificial intelligence and robotics epistemology and philosophy of science lexical semantics and pragmatics agent based simulation perspectivism framing contrast sensory modalities and music among others This collection provides evidence of the wide application range of this theory of knowledge representation The papers in this volume derive from international experts across different fields including philosophy cognitive science linguistics robotics computer science and geography Each contributor has successfully applied conceptual spaces theory as a modeling tool in their respective areas of expertise Graduates as well as researchers in the areas of epistemology linguistics geometric knowledge representation and the mathematical modeling of cognitive processes should find this book of particular interest

Soft Computing in Acoustics Bozena Kostek, 2013-06-29 Applications of some selected soft computing methods to acoustics and sound engineering are presented in this book The aim of this research study is the implementation of soft computing methods to musical signal analysis and to the recognition of musical sounds and phrases Accordingly some methods based on such learning algorithms as neural networks rough sets and fuzzy logic were conceived implemented and tested Additionally the above mentioned methods were applied to the analysis and verification of subjective testing results. The last problem discussed within the framework of this book was the problem of fuzzy control of the classical pipe organ instrument. The obtained results show that computational intelligence and soft computing may be used for solving some vital problems in both musical and architectural acoustics. Music, Gestalt, and Computing Marc Leman, 1997-09-10 This book presents a coherent state of the art survey on the area of systematic and cognitive musicology which has enjoyed dynamic growth now for many years. It is devoted to exploring the relationships between acoustics human information processing and culture as well as to methodological issues raised by the widespread use of computers as a powerful tool for

theory construction theory testing and the manipulation of musical information or any kind of data manipulation related to The Geometry of Musical Rhythm Godfried T. Toussaint, 2016-04-19 The Geometry of Musical Rhythm What music Makes a Good Rhythm Good is the first book to provide a systematic and accessible computational geometric analysis of the musical rhythms of the world It explains how the study of the mathematical properties of musical rhythm generates common mathematical problems that arise in a variety of seemingly dispara **Smart Systems and Wireless Communication** Rituparna Chaki, Agostino Cortesi, Suparna Das Gupta, Soumyabrata Saha, 2025-05-19 The volume is a collection of high quality research papers presented at International Conference on Smart Systems and Wireless Communication SSWC 2024 organized Department of Information Technology JIS College of Engineering Kalyani West Bengal India during 29 30 November 2024 This book focuses smart cities smart farming smart healthcare wireless networks communication internet of things cyber physical systems human computer interaction big data and data analytics high performance computing requirements engineering analysis and verification techniques security systems distributed systems biometrics bioinformatics robotic process automation and machine learning **Transactions on Rough Sets I** James F. Peters, Jerzy W. Grzymala-Busse, Bozena Kostek, Roman W. Swiniarski, Marcin S. Szczuka, 2004-10-27 The LNCS journal Transactions on Rough Sets is devoted to the entire spectrum of rough sets related issues starting from logical and mathematical foundations through all aspects of rough set theory and its applications such as data mining knowledge discovery and intelligent information processing to relations between rough sets and other approaches to uncertainty vagueness and incompleteness such as fuzzy sets and theory of evidence This first volume of the Transactions on Rough Sets opens with an introductory article by Zdzislaw Pawlak the originator of rough sets Nine papers deal with rough set theory and eight are devoted to applications in various domains

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