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Try to use deep learning to realize AMR

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Automatic Modulation Recognition Matlab Code

Jiyuan Zhang



Automatic Modulation Recognition Matlab Code:

Invariant Features and Enhanced Speaker Normalization for Automatic Speech Recognition Florian Müller, 2013

Automatic speech recognition systems have to handle various kinds of variabilities sufficiently well in order to achieve high recognition rates in practice One of the variabilities that has a major impact on the performance is the vocal tract length of the speakers Normalization of the features and adaptation of the acoustic models are commonly used methods in speech recognition systems In contrast to that a third approach follows the idea of extracting features with transforms that are invariant to vocal tract lengths changes This work presents several approaches for extracting invariant features for automatic speech recognition systems The robustness of these features under various training test conditions is evaluated and it is described how the robustness of the features to noise can be increased Furthermore it is shown how the spectral effects due to different vocal tract lengths can be estimated with a registration method and how this can be used for speaker normalization

Advances in Engineering Materials and Applied Mechanics Guangde Zhang, Quanjie Gao, Qiang Xu, 2015-10-22 With the rapid development of Machinery Materials Science and Engineering Application discussion on new ideas related mechanical engineering and materials science arise In this proceedings volume the author s are focussed on Machinery Materials Science and Engineering Applications and other related topics The Conference has pro

Audio and Speech Processing with MATLAB Paul Hill, 2018-12-07 Speech and audio processing has undergone a revolution in preceding decades that has accelerated in the last few years generating game changing technologies such as truly successful speech recognition systems a goal that had remained out of reach until very recently This book gives the reader a comprehensive overview of such contemporary speech and audio processing techniques with an emphasis on practical implementations and illustrations using MATLAB code Core concepts are firstly covered giving an introduction to the physics of audio and vibration together with their representations using complex numbers Z transforms and frequency analysis transforms such as the FFT Later chapters give a description of the human auditory system and the fundamentals of psychoacoustics Insights results and analyses given in these chapters are subsequently used as the basis of understanding of the middle section of the book covering wideband audio compression MP3 audio etc speech recognition and speech coding The final chapter covers musical synthesis and applications describing methods such as and giving MATLAB examples of AM FM and ring modulation techniques This chapter gives a final example of the use of time frequency modification to implement a so called phase vocoder for time stretching in MATLAB Features A comprehensive overview of contemporary speech and audio processing techniques from perceptual and physical acoustic models to a thorough background in relevant digital signal processing techniques together with an exploration of speech and audio applications A carefully paced progression of complexity of the described methods building in many cases from first principles Speech and wideband audio coding together with a description of associated standardised codecs e g MP3 AAC and GSM Speech recognition Feature

extraction e.g MFCC features Hidden Markov Models HMMs and deep learning techniques such as Long Short Time Memory LSTM methods Book and computer based problems at the end of each chapter Contains numerous real world examples backed up by many MATLAB functions and code **Automatic Target Recognition** ,2000 **Digital Signal Processing and Applications with the C6713 and C6416 DSK** Rulph Chassaing,2004-12-20 This book is a tutorial on digital techniques for waveform generation digital filters and digital signal processing tools and techniques The typical chapter begins with some theoretical material followed by working examples and experiments using the TMS320C6713 based DSP Starter Kit DSK The C6713 DSK is TI s newest signal processor based on the C6x processor replacing the C6711 DSK

Speech Technologies Ivo Ipsic,2011-06-13 This book addresses different aspects of the research field and a wide range of topics in speech signal processing speech recognition and language processing The chapters are divided in three different sections Speech Signal Modeling Speech Recognition and Applications The chapters in the first section cover some essential topics in speech signal processing used for building speech recognition as well as for speech synthesis systems speech feature enhancement speech feature vector dimensionality reduction segmentation of speech frames into phonetic segments The chapters of the second part cover speech recognition methods and techniques used to read speech from various speech databases and broadcast news recognition for English and non English languages The third section of the book presents various speech technology applications used for body conducted speech recognition hearing impairment multimodal interfaces and facial expression recognition **Automatic Modulation Classification** Zhechen Zhu,Asoke K.

Nandi,2015-02-16 Automatic Modulation Classification AMC has been a key technology in many military security and civilian telecommunication applications for decades In military and security applications modulation often serves as another level of encryption in modern civilian applications multiple modulation types can be employed by a signal transmitter to control the data rate and link reliability This book offers comprehensive documentation of AMC models algorithms and implementations for successful modulation recognition It provides an invaluable theoretical and numerical comparison of AMC algorithms as well as guidance on state of the art classification designs with specific military and civilian applications in mind Key Features Provides an important collection of AMC algorithms in five major categories from likelihood based classifiers and distribution test based classifiers to feature based classifiers machine learning assisted classifiers and blind modulation classifiers Lists detailed implementation for each algorithm based on a unified theoretical background and a comprehensive theoretical and numerical performance comparison Gives clear guidance for the design of specific automatic modulation classifiers for different practical applications in both civilian and military communication systems Includes a MATLAB toolbox on a companion website offering the implementation of a selection of methods discussed in the book *Journal of Scientific and Industrial Research* ,2010-07 *Global Land Ice Measurements from Space* Jeffrey S. Kargel,Gregory J. Leonard,Michael P. Bishop,Andreas Kääb,Bruce H. Raup,2014-07-08 An international team of over 150 experts provide up to date satellite

imaging and quantitative analysis of the state and dynamics of the glaciers around the world and they provide an in depth review of analysis methodologies Includes an e published supplement Global Land Ice Measurements from Space Satellite Multispectral Imaging of Glaciers GLIMS book for short is the leading state of the art technical and interpretive presentation of satellite image data and analysis of the changing state of the world s glaciers The book is the most definitive comprehensive product of a global glacier remote sensing consortium Global Land Ice Measurements from Space GLIMS <http://www.glims.org> With 33 chapters and a companion e supplement the world s foremost experts in satellite image analysis of glaciers analyze the current state and recent and possible future changes of glaciers across the globe and interpret these findings for policy planners Climate change is with us for some time to come and its impacts are being felt by the world s population The GLIMS Book to be released about the same time as the IPCC s 5th Assessment report on global climate warming buttresses and adds rich details and authority to the global change community s understanding of climate change impacts on the cryosphere This will be a definitive and technically complete reference for experts and students examining the responses of glaciers to climate change World experts demonstrate that glaciers are changing in response to the ongoing climatic upheaval in addition to other factors that pertain to the circumstances of individual glaciers The global mosaic of glacier changes is documented by quantitative analyses and are placed into a perspective of causative factors Starting with a Foreword Preface and Introduction the GLIMS book gives the rationale for and history of glacier monitoring and satellite data analysis It includes a comprehensive set of six how to methodology chapters twenty five chapters detailing regional glacier state and dynamical changes and an in depth summary and interpretation chapter placing the observed glacier changes into a global context of the coupled atmosphere land ocean system An accompanying e supplement will include oversize imagery and other other highly visual renderings of scientific data

Automatic Modulation Recognition Nasir Ghani,McMaster University. Department of Electrical and Computer Engineering,1992 Stanford Bulletin ,2006 *Dissertation Abstracts International* ,2004 International Aerospace Abstracts ,1999 *Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards* ,2008 Theses on any subject submitted by the academic libraries in the UK and Ireland Automatic Modulation Classification Zhechen Zhu,Asoke Kumar Nandi,2014 Automatic Modulation Recognition [microform] C. S. Ribble,1987 *Multi-Dimensional Classification Algorithm for Automatic Modulation Recognition* OUAAIL. ALBAIRAT,2025-05-22 This thesis proposes an approach for modulation classification using existing features in a more efficient way The Multi Dimensional Classification Algorithm MDCA treats features extracted from signals of interest as elements with irrelevant identities hence eliminating any dependence of the classifier on any particular feature This design enables the use of any number of features and the MDCA algorithm provides the capability to classify modulations in higher dimensions The use of multiple features requires an equal number of data dimensions and thus classification in as high a

dimensional space as possible can improve final classification results Finally the MDCA algorithm uses a relatively small number of simple operations which leads to a fast processing time Simulation results for the MDCA algorithm demonstrate good potential In particular the MDCA consistently performed well at SNR levels down to 10dB in some cases and in identifying more modulation types This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

Automatic modulation recognition using time domain parameters J. Aisbett,1986 Automatic Modulation Recognition Using Time Domain Parameters J. Aisbett,1986 *A Hybrid ICA-SVM Approach to Automatic Modulation Recognition* David Boutte,2009

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