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Speech Recognition Over Digital Channels

**Azizah Abd Manaf, Akram Zeki, Mazdak
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Speech Recognition Over Digital Channels Antonio Peinado, Jose Segura, 2006-08-04 Automatic speech recognition ASR is a very attractive means for human machine interaction The degree of maturity reached by speech recognition technologies during recent years allows the development of applications that use them In particular ASR shows an enormous potential in mobile environments where devices such as mobile phones or PDAs are used and for Internet Protocol IP applications Speech Recognition Over Digital Channels is the first book of its kind to offer a complete system comprehension addressing the topics of distributed and network based speech recognition issues and standards the concepts of speech processing and transmission and system architectures and robustness Describes the different client server architectures for remote speech recognition systems by means of which the client transmits speech parameters through a digital channel to a remote recognition server Focuses on robustness against both adverse acoustic environments in the front end and bit errors packet loss Discusses four ETSI standards for distributed speech recognition the understanding of the standards and the technologies behind them Provides the necessary background for the comprehension of remote speech recognition technologies This book will appeal to a wide ranging audience engineers using speech recognition systems researchers involved in ASR systems and those interested in processing and transmitting speech such as signal processing and communications communities It will also be of interest to technical experts requiring an understanding of recognition over mobile and IP networks and postgraduate students working on robust speech processing

Automatic Speech Recognition on Mobile Devices and over Communication Networks Zheng-Hua Tan, Boerge Lindberg, 2008-04-17 The advances in computing and networking have sparked an enormous interest in deploying automatic speech recognition on mobile devices and over communication networks This book brings together academic researchers and industrial practitioners to address the issues in this emerging realm and presents the reader with a comprehensive introduction to the subject of speech recognition in devices and networks It covers network distributed and embedded speech recognition systems

Speech Processing in Mobile Environments K. Sreenivasa Rao, Anil Kumar Vuppala, 2014-01-28 This book focuses on speech processing in the presence of low bit rate coding and varying background environments The methods presented in the book exploit the speech events which are robust in noisy environments Accurate estimation of these crucial events will be useful for carrying out various speech tasks such as speech recognition speaker recognition and speech rate modification in mobile environments The authors provide insights into designing and developing robust methods to process the speech in mobile environments Covering temporal and spectral enhancement methods to minimize the effect of noise and examining methods and models on speech and speaker recognition applications in mobile environments

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

Advances in Digital Speech Transmission Prof Rainer Martin, Prof Ulrich Heute, Prof Christiane Antweiler, 2008-02-28 Speech processing and speech transmission technology are expanding fields of active research New challenges arise from the anywhere anytime paradigm of mobile communications the ubiquitous use of voice communication systems in noisy environments and the convergence of communication networks toward Internet based transmission protocols such as Voice over IP As a consequence new speech coding new enhancement and error concealment and new quality assessment methods are emerging Advances in Digital Speech Transmission provides an up to date overview of the field including topics such as speech coding in heterogeneous communication networks wideband coding and the quality assessment of wideband speech Provides an insight into the latest developments in speech processing and speech transmission making it an essential reference to those working in these fields Offers a balanced overview of technology and applications Discusses topics such as speech coding in heterogeneous communications networks wideband coding and the quality assessment of the wideband speech Explains speech signal processing in hearing instruments and man machine interfaces from applications point of view Covers speech coding for Voice over IP blind source separation digital hearing aids and speech processing for automatic speech recognition Advances in Digital Speech Transmission serves as an essential link between the basics and the type of technology and applications prospective engineers work on in industry labs and academia The book will also be of interest to advanced students researchers and other professionals who need to brush up their knowledge in this field

Human-Computer Interaction: Design and Development Approaches Julie A. Jacko, 2011-06-24 This four volume set LNCS 6761 6764 constitutes the refereed proceedings of the 14th International Conference on Human Computer Interaction HCII 2011 held in Orlando FL USA in July 2011 jointly with 8 other thematically similar conferences The revised papers presented were carefully reviewed and selected from numerous submissions The papers accepted for presentation thoroughly cover the entire field of Human Computer Interaction addressing major advances in knowledge and effective use of computers in a variety of application areas The papers of this first volume are organized in topical sections on HCI design model based and patterns based design and development cognitive psychological and behavioural issues in HCI development methods algorithms tools and environments and image processing and retrieval in HCI

Informatics Engineering and Information Science, Part II Azizah Abd Manaf, Akram Zeki, Mazdak Zamani, Suriyati

Chuprat,Eyas El-Qawasmeh,2011-11-11 This 4 Volume Set CCIS 0251 CCIS 0254 constitutes the refereed proceedings of the International Conference on Informatics Engineering and Information Science ICIEIS 2011 held in Kuala Lumpur Malaysia in November 2011 The 210 revised full papers presented together with invited papers in the 4 volumes were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on e learning information security software engineering image processing algorithms artificial intelligence and soft computing e commerce data mining neural networks social networks grid computing biometric technologies networks distributed and parallel computing wireless networks information and data management web applications and software systems multimedia ad hoc networks mobile computing as well as miscellaneous topics in digital information and communications Digital TV and Wireless Multimedia Communications

Guangtao Zhai,Jun Zhou,Hua Yang,Ping An,Xiaokang Yang,2022-04-16 This book presents revised selected papers from the 18th International Forum on Digital TV and Wireless Multimedia Communication IFTC 2021 held in Shanghai China in December 2021 The 41 papers presented in this volume were carefully reviewed and selected from 110 submissions They were organized in topical sections on image analysis quality assessment target detection video processing big data Advances in Speech and Language Technologies for Iberian Languages

Doroteo T. Toledano,Alfonso Ortega,António Teixeira,Joaquin Gonzalez-Rodriguez,Luis Hernandez-Gomez,Ruben San-Segundo,Daniel Ramos,2012-11-02 This volume constitutes the refereed proceedings of the Spanish Conference IberSPEECH 2012 Joint VII Jornadas en Tecnologia del Habla and III Iberian SLTech Workshop held in Madrid Spain in November 21 23 2012 The 29 revised papers were carefully reviewed and selected from 80 submissions The papers are organized in topical sections on speaker characterization and recognition audio and speech segmentation pathology detection and speech characterization dialogue and multimodal systems robustness in automatic speech recognition applications of speech and language technologies

Speech in Mobile and Pervasive Environments Nitendra Rajput,Amit Anil Nanavati,2012-01-26 This book provides a cross disciplinary reference to speech in mobile and pervasive environments Speech in Mobile and Pervasive Environments addresses the issues related to speech processing on resource constrained mobile devices These include speech recognition in noisy environments specialised hardware for speech recognition and synthesis the use of context to enhance recognition and user experience and the emerging software standards required for interoperability This book takes a multi disciplinary look at these matters while offering an insight into the opportunities and challenges of speech processing in mobile environs In developing regions speech on mobile is set to play a momentous role socially and economically the authors discuss how voice based solutions and applications offer a compelling and natural solution in this setting Key Features Provides a holistic overview of all speech technology related topics in the context of mobility Brings together the latest research in a logically connected way in a single volume Covers hardware embedded recognition and synthesis distributed speech recognition software technologies contextual interfaces Discusses multimodal dialogue systems and their evaluation Introduces speech in

mobile and pervasive environments for developing regions This book provides a comprehensive overview for beginners and experts alike It can be used as a textbook for advanced undergraduate and postgraduate students in electrical engineering and computer science Students practitioners or researchers in the areas of mobile computing speech processing voice applications human computer interfaces and information and communication technologies will also find this reference insightful For experts in the above domains this book complements their strengths In addition the book will serve as a guide to practitioners working in telecom related industries

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