The Cmu Sphinx 4 Speech Recognition System

This book constitutes the thoroughly refereed proceedings of the 8th International Workshop on Computational Processing of the Portuguese Language, PROPOR 2012, held in Coimbra, Portugal in April 2012. The 24 revised full papers and 23 revised short papers presented were carefully reviewed and selected from 86 submissions. These papers cover the areas related to phonology, morphology and POS-Tagging, acquisition, language resources, linguistic description, syntax and parsing, semantics, opinion analysis, natural language processing applications, speech production and phonetics, speech resources, speech processing and applications.

"The book is intended to clarify the hype, which surrounds the concept of mobile multimedia through introducing the idea in a clear and understandable way, with a strong focus on mobile solutions and applications"—Provided by publisher.

This book constitutes the thoroughly refereed post-conference proceedings of the International Conference for Smart Health, ICSH 2015, held in Phoenix, AZ, USA, in November 2015. The 33 papers presented together were carefully reviewed and selected from 43 submissions. The conference focused on topics and issues including medical monitoring and information extraction, clinical and medical data mining, health data analysis and management, big data and smart health, and healthcare intelligent systems and clinical practice.

The portable device and mobile phone market has witnessed rapid growth in the last few years with the emergence of several revolutionary products such as mobile TV, converging iPhone and digital cameras that combine music, phone and video functionalities into one device. The proliferation of this market has further benefited from the competition in software and applications for smart phones such as Google’s Android operating system and Apple’s iPhone App-Store, stimulating tens of thousands of mobile applications that are made available by individual and enterprise developers. Whereas the mobile device has become ubiquitous in people’s daily life not only as a cellular phone but also as a media player, a mobile computing device, and a personal assistant, it is particularly important to address challenges timely in applying advanced pattern recognition, signal, information and multimedia processing techniques, and new emerging networking technologies to such mobile systems. The primary objective of this book is to foster interdisciplinary discussions and research in mobile multimedia processing techniques, applications and systems, as well as to provide stimulus to researchers on pushing the frontier of emerging new technologies and applications. One attempt on such discussions was the organization of the First International Workshop of Mobile Multimedia Processing (WMMP 2008), held in Tampa, Florida, USA, on December 7, 2008. About 30 papers were submitted from 10 countries across the USA, Asia and Europe.

Voice user interfaces (VUIs) are becoming all the rage today. But how do you build one that people can actually converse with? Whether you’re designing a mobile app, a toy, or a device such as a home assistant, this practical book guides you through basic VUI design principles, helps you choose the right speech recognition engine, and shows you how to measure your VUI’s performance and improve upon it. Author Cathy Pearl also takes product managers, UX designers, and VUI designers into advanced design topics that will help make your VUI not just functional, but great. Understand key VUI design concepts, including command-and-control and conversational systems. Decide if you should use an avatar or other visual representation with your VUI. Explore speech recognition technology and its impact on your design. Take your VUI above and beyond the basic exchange of information. Learn practical ways to test your VUI application with users. Monitor your app and learn how to quickly improve performance. Get real-world examples of VUIs for home assistants, smartwatches, and car systems.

"This book identifies the emerging research areas in Human Computer Interaction and discusses the current state of the art in these areas"—Provided by publisher.

This book explores novel aspects of social robotics, spoken dialogue systems, human-robot interaction, spoken language understanding, multimodal communication, and system evaluation. It offers a variety of perspectives on and solutions to important questions about advanced techniques for social robots and chatbots. Chapters by leading researchers address key research and development topics in the field of applying advanced pattern recognition, signal, information and multimedia processing techniques, and new emerging networking technologies to such mobile systems.

The book offers a valuable resource for researchers and practitioners in both academia and industry whose work involves advanced interaction technology and who are seeking an up-to-date overview of the key topics. It also provides supplementary educational material for courses on state-of-the-art dialogue system technologies, social robotics, and related research fields.

This book constitutes the thoroughly refereed proceedings of the 21st International Conference on Computer Networks, CN 2014, held in Brünn, Poland, in June 2014. The 34 revised full papers presented were carefully reviewed and selected for inclusion in the book. The papers in these proceedings cover the following topics: computer networks, teleinformatics and communications, new technologies, queueing theory, innovative applications and networked and IT-related aspects of e-business.

Bring life to your robot using ROS robotic applications. About This Book This book will help you boost your knowledge of ROS and give you advanced practical experience you can apply to your ROS robot platforms. This is the only book that offers you step-by-step instructions to solidify your ROS understanding and gain experience using ROS tools. From eminent authors, this book offers you a plethora of fun-filled examples to make your own quadcopter, turtlebot, and two-armed robots. Who This Book Is For If you are a robotics developer, whether a hobbyist, researchers or professional, and are interested in learning about ROS through a hands-on approach, then this book is for you. You are encouraged to have a working knowledge of GNU/Linux systems and Python. What You Will Learn Get to know the fundamentals of ROS and apply its concepts to real robot examples. Control a mobile robot to navigate autonomously in an environment. Model your robot designs using URDF and Xacro, and operate them in a ROS Gazebo simulation. Control a 7 degree-of-freedom robot arm for visual servoing. Fly a quadcopter to autonomous waypoints. Gain working knowledge of ROS tools such as Gazebo, rviz, rqt, and Move-It. Control robots with mobile devices and controller boards. In Detail The visionaries who created ROS developed a framework for robotics centered on the commonality of robotic systems and exploited this commonality in ROS to expedite the development of future robotic systems. From the fundamental concepts to advanced practical experience, this book will provide you with an incremental knowledge of the ROS framework, the backbone of the robotics evolution. ROS standardizes many layers of robotics functionality from low-level device drivers to process control to message passing to software package management. This book provides step-by-step examples of mobile, armed, and flying robots, describing the ROS implementation as the basic model for other robots of these types. By controlling these robots, whether in simulation or in reality, you will use ROS to drive, move, and fly robots using ROS control. Style and approach This is an easy-to-follow guide with hands-on examples of ROS robots, both real and in simulation.

This book constitutes the refereed proceedings of the 14th International Conference on Text, Speech and Dialogue, TSD 2011, held in Pilsen, Czech Republic, in September 2011. The 53 papers presented together with 2 invited talks were carefully reviewed and selected from 110 submissions. The main topic of this year's conference was "Integrating modern Web with speech and language technologies”. This year the Third International Workshop on Balto-Slavonic Natural Language was affiliated to TSD. The present book contains 8 contributions from this workshop.

An accessible introduction to speech and audio processing with numerous practical illustrations, exercises, and hands-on MATLAB examples.
This book constitutes the refereed proceedings of the 19th International Conference on Text, Speech, and Dialogue, TSD 2016, held in Brno, Czech Republic, in September 2016. The 62 papers presented together with 3 abstracts of invited talks were carefully reviewed and selected from 127 submissions. They focus on topics such as corpora and language resources; speech recognition; tagging, classification and parsing of text and speech; speech and spoken language generation; semantic processing of text and speech; integrating applications of text and speech processing; automatic dialogue systems; as well as multimodal techniques and modelling.

This book is about recent research in the area of profiling humans from their voice, which seeks to deduce and describe the speaker's entire persona and their surroundings from voice alone. It covers several key aspects of this technology, describing how the human voice is unique in its ability to both capture and influence the human persona -- how, in some ways, voice is more potent and valuable than DNA and fingerprints as a metric, since it not only carries information about the speaker, but also about their current state and their surroundings at the time of speaking. It provides a comprehensive review of advances made in multiple scientific fields that now contribute to its foundations. It describes how artificial intelligence enables mechanisms of discovery that were not possible before in this context, driving the field forward in unprecedented ways. It also touches upon related and relevant challenges posed by voice disguise and other mechanisms of voice manipulation. The book acts as a good resource for academic researchers, and for professional agencies in many areas such as law enforcement, healthcare, social services, entertainment etc.

Automatic speech recognition (ASR) systems are finding increasing use in everyday life. Many of the commonplace environments where the systems are used are noisy, for example users calling up a voice search system from a busy cafeteria or a street. This can result in degraded speech recordings and adversely affect the performance of speech recognition systems. As the use of ASR systems increases, knowledge of the state-of-the-art in techniques to deal with such problems becomes critical to system application and engineers who work with or on ASR technologies. This book presents a comprehensive survey of the state-of-the-art in techniques used to improve the robustness of speech recognition systems to these degrading external influences. Key features: Reviews all the main noise robustness methods, including: detection, robust feature extraction, model compensation, voice command adaptation, missing data techniques and recognition of reverberant speech. Acts as a timely exposition of the topic in light of more widespread use of ASR technology in challenging environments. Addresses robustness issues and signal degradation which are both key requirements for practitioners of ASR. Includes contributions from top ASR researchers from leading research units in the field.

Predictive analytics refers to making predictions about the future based on different parameter values which are historical data, machine learning, and artificial intelligence. This book provides the most recent advances in the field along with case studies and real-world examples. It discusses predictive modeling and analytics in reliability engineering and introduces current achievements and applications of artificial intelligence, data mining, and other techniques in supply chain management. It covers applications to reliability engineering practice, presents numerous examples to illustrate the theoretical results, and considers and analyses case studies and real-world examples. The book is written for researchers and practitioners in the field of system reliability, quality, supply chain management, and logistics management. Students taking courses in these areas will also find this book of interest.

Remarkable progress is being made in spoken language processing, but many powerful techniques have remained hidden in conference proceedings and academic papers, inaccessible to most practitioners. In this book, the leaders of the Speech Technology Group at Microsoft Research share these advances -- presenting not just the latest theory, but practical techniques for building commercially viable products. KEY TOPICS: Spoken Language Processing draws upon the latest advances and techniques from multiple fields: acoustics, phonology, phonetics, linguistics, semantics, pragmatics, computer science, electrical engineering, mathematics, syntax, psychology, and beyond. The book begins by presenting essential background on speech production and perception, probability and information theory, and pattern recognition. The authors demonstrate how to extract useful information from the speech signal, then present a variety of contemporary speech recognition techniques, including hidden Markov models, acoustic and language modeling, and techniques for improving resistance to environmental noise. Coverage includes decoders, search algorithms, large vocabulary speech recognition techniques, text-to-speech, spoken language dialog management, user interfaces, and interaction with non-speech interface modalities. The authors also present detailed case studies based on Microsoft's advanced prototypes, including the Whisper speech recognizer, Whistler text-to-speech system, and MiPad handheld computer. MILLIET: For anyone involved with planning, designing, building, or purchasing spoken language technology.

Data is a common ground, a starting point for each ICT system. Data needs processing, use of different technologies and state-of-the-art methods in order to obtain new knowledge, to develop new useful applications that not only increase but also enhance the quality of life. These applications use the exploration of Big Data, High throughput data, Data Warehouse, Data Mining, Bioinformatics, Robotics, with data coming from social media, sensors, scientific applications, surveillance, video and image archives, internet texts and documents, internet search indexing, medical records, business transactions, web logs, etc. Information and communication technologies have become the asset in everyday life enabling increased level of communication, processing and information exchange. This book offers a collection of selected papers presented at the Sixth International Conference on ICT Innovations held in September 2014, in Ohrid, Macedonia, with main topic World of data. The conference gathered academics, professionals and practitioners in developing solutions and systems in the industrial and business arena, especially innovative commercial implementations, novel applications of technology, and experience in applying recent ICT research advances to practical solutions.

This book constitutes the refereed proceedings of the 18th International Conference on Text, Speech and Dialogue, TSD 2015, held in Pilsen, Czech Republic, in September 2015. The 67 papers presented together with 3 invited papers were carefully reviewed and selected from 138 submissions. They focus on topics such as corpora and language resources; speech recognition; tagging, classification and parsing of text and speech; speech and spoken language generation; semantic processing of text and speech; integrating applications of text and speech processing; automatic dialogue systems; as well as multimodal techniques and modelling.

This volume constitutes the refereed proceedings of 13 international workshops held as part of OTM 2008 in Monterrey, Mexico, in November 2008. The 106 revised full papers presented were carefully reviewed and selected from a total of 171 submissions to the workshops. The volume starts with 19 additional revised poster papers of the OTM 2008 main conferences CoopIS and ODBASE. Topics of the workshop papers are ambient data integration (ADI 2008), agents and web services merging in distributed environment (AWeSoMe 2008), community-based evolution of knowledge-intensive systems (COMBEK 2008), enterprise integration, interoperability and networking (EI2N 2008), system/software architectures (IWSSA 2008), mobile and networking technologies for social applications (MONET 2008), ontology content and evaluation in enterprise & quantitative semantic methods for the internet (OnToContent and qos 2008), object-role modeling (ORM 2008), pervasive systems (PerSys 2008), reliability in decentralized distributed systems (RDDBS 2008), semantic extensions to middleware enabling large scale knowledge (SEMELS 2008), and semantic Web and Web semantics (SWWS 2008).

This book addresses state-of-the-art systems and achievements in various topics in the research field of speech and language technologies. Book chapters are organized in different sections covering diverse...
problems, which have to be solved in speech recognition and language understanding systems. In the first section machine translation systems based on large parallel corpora using rule-based and statistical-based translation methods are presented. The third chapter presents work on real time two way speech-to-speech translation systems. In the second section two papers explore the use of speech technologies in language learning. The third section presents a work on language modeling used for speech recognition. The chapters in section Text-to-speech systems and emotional speech describe corpus-based speech synthesis and highlight the importance of speech prosody in speech recognition. In the fifth section the problem of speaker diarization is addressed. The last section presents various topics in speech technology applications like audio-visual speech recognition and lip reading systems.

The book gathers a collection of high-quality peer-reviewed research papers presented at the International Conference on Information System Design and Intelligent Applications (INDIA 2018), which was held at the Universite des Mascareignes, Mauritius from July 19 to 21, 2018. It covers a wide range of topics in computer science and information technology, from image processing, database applications and data mining, to grid and cloud computing, bioinformatics and many more. The intelligent tools discussed, e.g. swarm intelligence, artificial intelligence, evolutionary algorithms, and bio-inspired algorithms, are currently being applied to solve challenging problems in various domains.

An emerging technology, Speaker Recognition is becoming well-known for providing voice authentication over the telephone for helpdesks, call centres and other enterprise businesses for business process automation. "Fundamentals of Speaker Recognition" introduces Speaker Identification, Speaker Verification, Speaker (Audio Event) Classification, Speaker Detection, Speaker Tracking and more. The technical problems are rigorously defined, and a complete picture is made of the relevance of the discussed algorithms and their usage in building a comprehensive Speaker Recognition System. Designed as a textbook with examples and exercises at the end of each chapter, "Fundamentals of Speaker Recognition" is suitable for advanced-level students in computer science and engineering, concentrating on biometrics, speech recognition, pattern recognition, signal processing and, specifically, speaker recognition. It is also a valuable reference for developers of commercial technology and for speech scientists. Please click on the link under "Additional Information" to view supplemental information including the Table of Contents and Index.

This proceedings book showcases the latest research work presented at the Second Edition of the Mediterranean Symposium on Smart City Application (SCAMS 2017), which was held in Tangier, Morocco on October 15–27, 2017. It presents original research results, new ideas and practical development experiences that concentrate on both theory and practice. It includes papers from all areas of Smart City Applications, e.g. Smart Mobility, Big Data, Smart Grids, Smart Homes and Buildings, cloud, crowds, mashups, social networks, and security issues. The conference stimulated cutting-edge research discussions among pioneering researchers, scientists, industrial engineers, and students from all around the world. The topics covered in this book also focus on innovative issues at the international level by bringing together experts from different countries. The scope of SCAMS 2017 included methods and practices that combine various emerging internetworking and data technologies to capture, integrate, analyze, mine, annotate, and visualize data in a meaningful and collaborative manner. A series of international workshops were organized as invited sessions during the SCAMS 2017: The 2nd International Workshop on Smart Learning & Innovative Education, The 1st International Workshop on Smart Healthcare, The 1st International Workshop on Mathematics for Smart City, The 1st International Workshop Industry 4.0 and Smart Manufacturing.

This book covers state-of-the-art topics on the practical implementation of Spoken Dialog Systems and intelligent assistants in everyday applications. It presents scientific achievements in language processing that result in the development of successful applications and addresses general issues regarding the advances in Spoken Dialog Systems with applications in robotics, knowledge access and communication. Emphasis is placed on the following topics: speaker/language recognition, user modeling / simulation, evaluation of dialog system, multi-modality / emotion recognition from speech, speech data mining, language resource and databases, machine learning for spoken dialog systems and educational and healthcare applications. This 2 volume-set of IFIP AICT 583 and 584 constitutes the refereed proceedings of the 16th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations, AIAI 2020, held in Neos Marmaras, Greece, in June 2020.* The 70 full papers and 5 short papers presented were carefully reviewed and selected from 149 submissions. They cover a broad range of topics related to technical, legal, and ethical aspects of artificial intelligence systems and their applications and are organized in the following sections: Part I: classification; clustering - unsupervised learning - analytics; image processing; learning algorithms; neural network modeling; object tracking - object detection systems; ontologies - AI; and sentiment analysis - recommender systems. Part II: AI ethics - law; AI constraints; deep learning - LSTM; fuzzy algebra - fuzzy systems; machine learning; medical - health systems; and natural language. *The conference was held virtually due to the COVID-19 pandemic.

This book is a collection of papers from professionals and students attending the International Conference on NextGen Electronic Technologies (ICNETS2). ICNETS2 encompassed six symposia covering all aspects of electronics and communications engineering, including relevant nano/micro materials and devices. Highlighting recent research in intelligent embedded systems, the book is a valuable resource for professionals and students working in the core areas of electronics and their applications, especially in signal processing, embedded systems, and networking. The contents of this volume will be of interest to researchers and professionals alike.

This edited volume presents the best chapters presented during the international conference on computer and applications ICCA'17 which was held in Dubai, United Arab Emirates in September 2017. Selected chapters present new advances in digital information, communications and multimedia. Authors from different countries show and discuss their findings, propose new approaches, compare them with the existing ones and include recommendations. They address all applications of computing including (but not limited to) connected health, information security, assistive technology, edutainment and serious games, education, grid computing, transportation, social computing, natural language processing, knowledge extraction and reasoning, Arabic apps, image and pattern processing, virtual reality, cloud computing, haptics, information security, robotics, networks algorithms, web engineering, big data analytics, ontology, constraints satisfaction, cryptography and steganography, Fuzzy logic, soft computing, neural networks, artificial intelligence, biometry and bio-informatics, embedded systems, computer graphics, algorithms and optimization, Internet of things and smart cities. The book can be used by researchers and practitioners to discover the recent trends in computer applications. It opens a new horizon for research discovery works locally and internationally.

This volume is a selection of twenty peer-reviewed articles first presented at the 41st annual Linguistic Symposium on Romance Languages (LSRL), held at the University of Ottawa in 2011. They are thematically linked by a broad notion of variation across languages, dialects, speakers, time, linguistic contexts, and communicative situations. Furthermore, the articles address common theoretical and empirical issues from different formal, experimental, or corpus-based perspectives. The languages analyzed belong to the main members of the Romance family,
Spanish, Portuguese, Catalan, French, Ladin, Italian, Sardinian, and Romanian, and a variety of topics across a wide spectrum of linguistic subfields, from phonetics to semantics, as well as historical linguistics, bilingualism and second-language learning, is covered. By illustrating the richness and complementarity of subjects, methods, and theoretical frameworks explored within Romance linguistics, significant contributions are made to both the documentation of Romance languages and to linguistic theory.

This book constitutes the refereed proceedings of the 8th Iberoamerican Congress on Pattern Recognition, CIARP 2003, held in Havana, Cuba, in November 2003. The 82 revised full papers presented together with two invited papers were carefully reviewed and selected from 140 submissions. All current issues in pattern recognition, image processing, and computer vision are addressed as well as applications in domains like robotics, health, entertainment, space exploration, telecommunications, speech processing, data analysis, document recognition, etc.

This presents a collection of articles on human-computer interaction, covering such topics as applications, methods, hardware, and computers and society.

Novel Techniques for Dialectal Arabic Speech describes approaches to improve automatic speech recognition for dialectal Arabic. Since speech resources for dialectal Arabic speech recognition are very sparse, the authors describe how existing Modern Standard Arabic (MSA) speech data can be applied to dialectal Arabic speech recognition, while assuming that MSA is always a second language for all Arabic speakers. In this book, Egyptian Colloquial Arabic (ECA) has been chosen as a typical Arabic dialect. ECA is the first ranked Arabic dialect in terms of number of speakers, and a high quality ECA speech corpus with accurate phonetic transcription has been collected. MSA acoustic models were trained using news broadcast speech. In order to cross-linguistically use MSA in dialectal Arabic speech recognition, the authors have normalized the phoneme sets for MSA and ECA. After this normalization, they have applied state-of-the-art acoustic model adaptation techniques like Maximum Likelihood Linear Regression (MLLR) and Maximum A-Posteriori (MAP) to adapt existing phonemic MSA acoustic models with a small amount of dialectal ECA speech data. Speech recognition results indicate a significant increase in recognition accuracy compared to a baseline model trained with only ECA data.

The two-volume set LNCSCоставляет the thorough refereed post-conference proceedings of the First International Internet of Things Summit, IoT360 2014, held in Rome, Italy, in October 2014. This volume contains 74 full papers carefully reviewed and selected from 118 submissions at the following four conferences: the First International Conference on Cognitive Internet of Things Technologies, COIOTE 2014; the First International Conference on Pervasive Games, PERGAMES 2014; the First International Conference on IoT Technologies for HealthCare, HealthylIoT 2014; and the First International Conference on IoT as a Service, IoTaaS 2014. The papers cover the following topics: user-centric IoT; artificial intelligence techniques for the IoT; the design and deployment of pervasive games for various sectors, such as health and wellbeing, ambient assisted living, smart cities and societies, education, cultural heritage, and tourism; delivery of electronic healthcare; patient care and medical data management; smart objects; networking considerations for IoT; platforms for IoTaaS; adapting to the IoT environment; modeling IoTaaS; machine to machine support in IoT.

Cross-Word Modeling for Arabic Speech Recognition utilizes phonological rules in order to model the cross-word problem, a merging of adjacent words in speech caused by continuous speech, to enhance the performance of continuous speech recognition systems. The author aims to provide an understanding of the cross-word problem and how it can be avoided, specifically focusing on Arabic phonology using an HMM-based classifier.

The 15 International Conference on Applications of Natural Language to Information Systems (NLDB 2010) took place during June 23–25 in Cardiff (UK). Since the first edition in 1995, the NLDB conference has been aiming at bringing together resear-chers, people working in industry and potential users interested in various applications of natural language in the database and information system area. However, in order to reflect the growing importance of accessing information from a diverse collection of sources (Web, Databases, Sensors, Cloud) in an equally wide range of contexts (- clouding mobile and tethered), the theme of the 15th International Conference on - plications of Natural Language to Information Systems 2010 was “Communicating with Anything, Anywhere in Natural Language.” Natural languages and databases are core components in the development of in-formation systems. Natural language processing (NLP) techniques may substantially enhance most phases of the information system lifecycle, starting with requirement analysis, specification and validation, and going up to conflict resolution, result pr-essing and presentation. Furthermore, natural language-based query languages and user interfaces facilitate the access to information for all and allow for new paradigms in the usage of computerized services. Hot topics such as information retrieval (IR), software engineering applications, hidden Markov models, natural language interfaces and semantic networks and graphs imply a complete fusion of databases, IR and NLP techniques.

This book constitutes the proceedings of the 22nd International Conference on Speech and Computer, SPECOM 2020, held in St. Petersburg, Russia, in October 2020. The 65 papers presented were carefully reviewed and selected from 160 submissions. The papers present current research in the area of computer speech processing including speech science, speech technology, natural language processing, human-computer interaction, language identification, multimedia processing, human-machine interaction, deep learning for audio processing, computational paralinguistics, affective computing, speech and language resources, speech translation systems, text mining and sentiment analysis, voice assistants, etc. Due to the Corona pandemic SPECOM 2020 was held as a virtual event.

Artificial Intelligence Applications and Innovations16th IFIP WG 12.5 International Conference, AIAI 2020, Neos Marmaras, Greece, June 5–7, 2020, Proceedings, Part ISpringer Nature

In the modern information society, there is an ever-growing need for improved natural language processing and human language technologies. This book presents the proceedings of the Sixth International Conference ‘Human Language Technologies – The Baltic Perspective’ (Baltic HLT 2014) held in Kaunas, Lithuania in September 2014. The Baltic HLT conferences provide an important forum for gathering and consolidating ideas, and are an opportunity for the Baltic countries to present important research results to an international audience. The book contains 39 long and short papers presented at the conference. These cover a wide range of topics: syntactic analysis, sentiment analysis, co-reference resolution, authorship attribution, information extraction, document clustering, machine translation, corpus and parallel corpus compiling, speech recognition, synthesis and others. The book is divided into three main sections: speech technology, methods in computational linguistics, and preparation of language resources. This book will be of interest to anyone whose work involves the use and application of computational linguistics and related disciplines.

This book constitutes the thoroughly refereed post-proceedings of the COST Action 2102 International Workshop on Verbal and Nonverbal Communication Behaviours held in Vietri sul Mare, Italy, in March 2007. The twenty six revised full papers presented together with one introductory paper comprise carefully reviewed and selected participants' contributions and invited lectures given at the workshop. The papers are organized in topical sections.

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