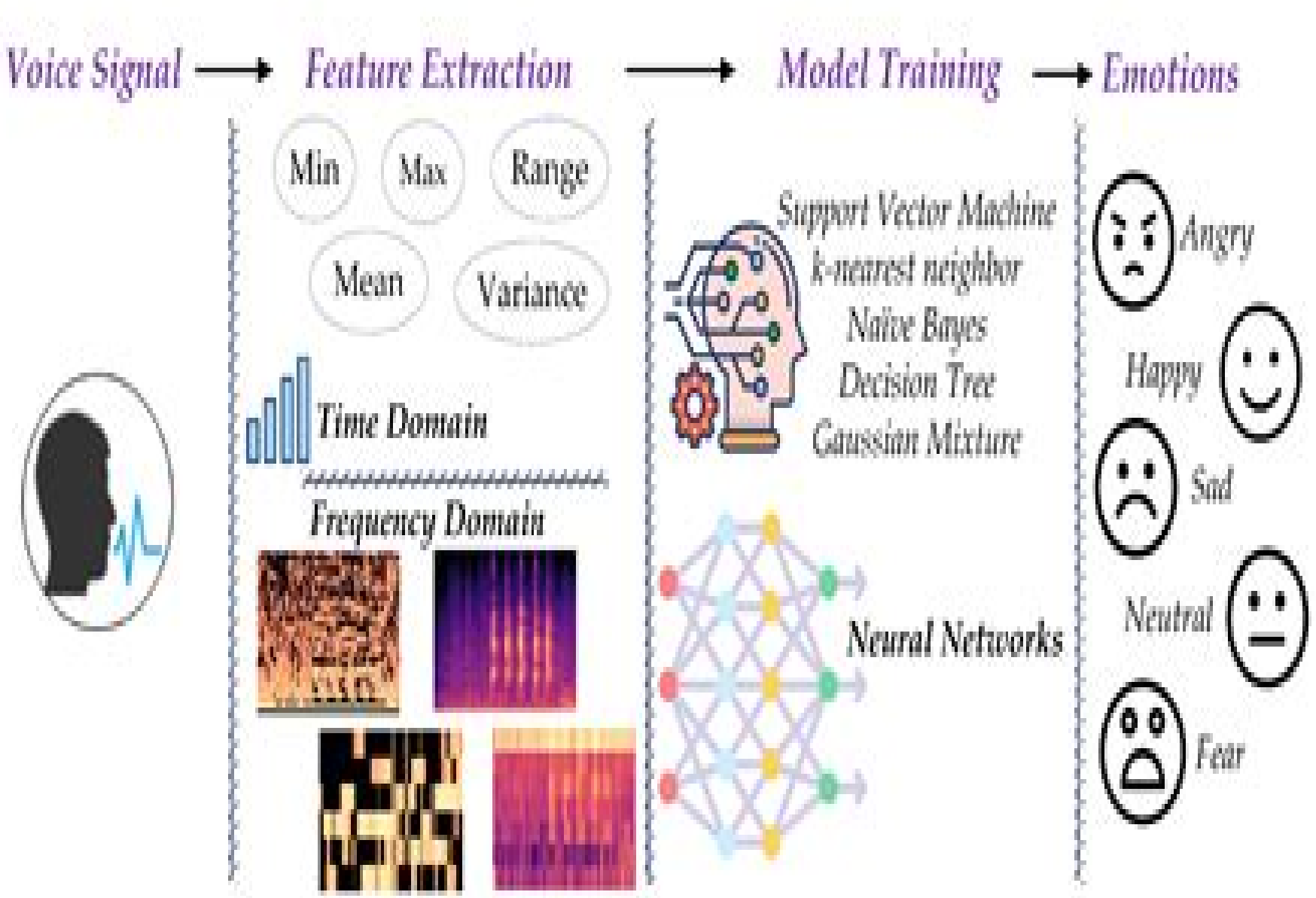
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Advances in Computing and Communications, Part III Ajith Abraham,Jaime Lloret Mauri,John Buford,Junichi Suzuki,Sabu M. Thampi,2011-07-08 This volume is the third part of a four volume set CCIS 190 CCIS 191 CCIS 192 CCIS 193 which constitutes the refereed proceedings of the First International Conference on Computing and Communications ACC 2011 held in Kochi India in July 2011 The 70 revised full papers presented in this volume were carefully reviewed and selected from a large number of submissions The papers are organized in topical sections on security trust and privacy sensor networks signal and image processing soft computing techniques system software vehicular communications networks *Affective Information Processing* Jianhua Tao,Tieniu Tan,2008-12-02 Affective information processing assigns computers the human like capabilities of observation interpretation and generation of affect features It is an important topic for harmonious human computer interaction by increasing the quality of human computer communication and improving the intelligence of the computer Discussing state of art of the research in affective information processing this book summarises key technologies researched such as facial expression recognition face animation emotional speech synthesis intelligent agent and virtual reality The detailed discussion covers a wide range of topics including hot topics which look to challenge and improve current research work Written to provide an opportunity for scientists engineers and graduate students to learn problems solutions and technologies in the topic area this book will provide insight and prove a valuable reference tool

Brain Informatics Yi Zeng,Yong He,Jeanette Hellgren Kotaleski,Maryann Martone,Bo Xu,Hanchuan Peng,Qingming Luo,2017-11-02 This book constitutes the refereed proceedings of the International Conference on Brain Informatics BI 2017 held in Beijing China in November 2017 The 31 revised full papers were carefully reviewed and selected from 64 submissions BI addresses the computational cognitive physiological biological physical ecological and social perspectives of brain informatics as well as topics related tomental health and well being **Advanced Data Mining and Applications** Jianxin Li,Sen Wang,Shaowen Qin,Xue Li,Shuliang Wang,2019-11-16 This book constitutes the proceedings of the 15th International Conference on Advanced Data Mining and Applications ADMA 2019 held in Dalian China in November 2019 The 39 full papers presented together with 26 short papers and 2 demo papers were carefully reviewed and selected from 170 submissions The papers were organized in topical sections named Data Mining Foundations Classification and Clustering Methods Recommender Systems Social Network and Social Media Behavior Modeling and User Profiling Text and Multimedia Mining Spatial Temporal Data Medical and Healthcare Data Decision Analytics and Other Applications

Man-Machine Speech Communication Zhenhua Ling,Xie Chen,Askar Hamdulla,Liang He,Ya Li,2024-12-26 This book constitutes the refereed proceedings of the 19th National Conference on Man Machine Speech Communication NCMMSC 2024 held in Urumqi China during August 15 18 2024 The 33 papers included in these proceedings were carefully reviewed and selected from 205 submissions They deal with topics such as speech technology and large language models audio

processing prosody modeling and dialogue systems Key areas include speech recognition speaker identification and verification speech sound music synthesis speech enhancement sound event detection multimodal systems conversational AI phonetics phonology and prosody analysis auditory processing and acoustic scene modeling etc *Computational Intelligence in Communications and Business Analytics* Somnath Mukhopadhyay,Sunita Sarkar,Paramartha Dutta,Jyotsna Kumar Mandal,Sudipta Roy,2022-07-21 This book constitutes the refereed proceedings of the 4th International Conference on Computational Intelligence Communications and Business Analytics CICBA 2022 held in Silchar India in January 2022 The 21 full papers and 13 short papers presented in this volume were carefully reviewed and selected from 107 submissions The papers are organized in topical sections on computational intelligence computational intelligence in communication and computational intelligence in analytics **Recent Advances in Computer Science and Information Engineering** Zhihong Qian,Lei Cao,Weilian Su,Tingkai Wang,Huamin Yang,2012-02-04 CSIE 2011 is an international scientific Congress for distinguished scholars engaged in scientific engineering and technological research dedicated to build a platform for exploring and discussing the future of Computer Science and Information Engineering with existing and potential application scenarios The congress has been held twice in Los Angeles USA for the first and in Changchun China for the second time each of which attracted a large number of researchers from all over the world The congress turns out to develop a spirit of cooperation that leads to new friendship for addressing a wide variety of ongoing problems in this vibrant area of technology and fostering more collaboration over the world The congress CSIE 2011 received 2483 full paper and abstract submissions from 27 countries and regions over the world Through a rigorous peer review process all submissions were refereed based on their quality of content level of innovation significance originality and legibility 688 papers have been accepted for the international congress proceedings ultimately **Data Science and Communication** João Manuel R. S. Tavares,Joel J. P. C. Rodrigues,Debajyoti Misra,Debasmriti Bhattacherjee,2024-01-02 The book presents selected papers from the International Conference on Data Science and Communication ICTDsC 2023 organized by the Department of Electronics and Communication Engineering and Department of Engineering Science and Humanities DESH Siliguri Institute of Technology India during 23 24 March 2023 in Siliguri India The book covers state of the art research insights on artificial intelligence machine learning big data data analytics cyber security and forensic network and mobile security advanced computing cloud computing quantum computing electronics system Internet of Things robotics and automations blockchain and software technology and digital technologies for future **Computer Vision and Information Technology** K. V. Kale,S. C. Mehrotra,R. R. Manza,2010 Spread in 133 articles divided in 20 sections the present treatises broadly discusses Part 1 Image Processing Part 2 Radar and Satellite Image Processing Part 3 Image Filtering Part 4 Content Based Image Retrieval Part 5 Color Image Processing and Video Processing Part 6 Medical Image Processing Part 7 Biometric Part 8 Network Part 9 Mobile Computing Part 10 Pattern Recognition Part 11 Pattern Classification Part 12 Genetic Algorithm Part 13 Data

Warehousing and Mining Part 14 Embedded System Part 15 Wavelet Part 16 Signal Processing Part 17 Neural Network Part 18 Nanotechnology and Quantum Computing Part 19 Image Analysis Part 20 Human Computer Interaction **Intelligent Computing in Signal Processing and Pattern Recognition** De-Shuang Huang,2006-08-04 This 1179 page book assembles the complete contributions to the International Conference on Intelligent Computing ICIC 2006 one volume of Lecture Notes in Computer Science LNCS one of Lecture Notes in Artificial Intelligence LNAI one of Lecture Notes in Bioinformatics LNBI and two volumes of Lecture Notes in Control and Information Sciences LNCIS Include are 149 revised full papers and a Special Session on Computing for Searching Strategies to Control Dynamic Processes **IEEE ... Workshop on Multimedia Signal Processing** ,2004 **2004 International Symposium on Chinese Spoken Language Processing** ,2004 **Comparing MFCC and Pitch-Based Features in CNN Speech Emotion Recognition for Multilingual Speech Processing** Natalie Abramov,2025 Speech Emotion Recognition SER is a growing field in Affective Computing that is characterized by artificial intelligence systems automatically classifying emotions in speech This thesis investigates the effectiveness of different feature extraction methods for SER across tonal and non tonal languages While Mel Frequency Cepstral Coefficients MFCCs are widely used for capturing spectral features in speech they inherently discard some pitch information that can be essential in classifying emotions in tonal languages such as Mandarin Chinese To address this a custom pitch based feature extraction layer PitchExtractor was developed using the Short Time Fourier Transform STFT and magnitude spectrogram to extract dominant pitch features from audio waveforms This research evaluates the SER performance of PitchExtractor alone MFCCs alone and a combined model incorporating both layers Experiments were conducted across three datasets ESD Chinese IEMOCAP English and EMO DB German to evaluate performance across tonal and non tonal contexts Results show that while MFCCs alone outperform pitch features across all datasets combining MFCCs with explicit pitch information led to marginal improvements for the tonal dataset ESD However the same combined model decreased performance for the non tonal datasets which suggests that pitch features provide valuable emotional nuances in tonal speech but introduce noise in non tonal speech These findings emphasize the importance of language specific feature selection in speech emotion recognition and create a foundation for more versatile multilingual SER models **Automatic Speech Recognition and Understanding** ,2003 **Proceedings** ,2004 **International Conference on Multimodal Interfaces** ,2004 Design and Management of Multimedia Information Systems Syed Mahbubur Rahman,Mahbubur Rahman Syed,2001 Multimedia technology has the potential to transform end user computing from interactive text and graphics models into something more compatible with the digital and electronic world of the 21st century This work aims to help technology professionals gain an understanding and perspective on areas related to multimedia computing and communication while addressing the major issues and challenges in the design and management of multimedia information systems Topics covered include the development of multimedia systems and applications use of

multimedia standards temporal issues legal issues media content management and multimedia document retrieval issues *Working Papers* ,2006 **INTERSPEECH 2004 - ICSLIP** ,2004 Advances in Multimedia Information Processing-PCM ... ,2002

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