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Features For Emotion
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Emotion Recognition
From*

“ Emotion Recognition Using Speech Features ” provides coverage of emotion-specific features present in speech. The author also discusses suitable models for capturing emotion-specific information for distinguishing different emotions. The content of this book is important for designing and developing natural and sophisticated speech systems. In this Brief, Drs. Rao and Koolagudi lead a discussion of how emotion-specific information is embedded in speech and how to acquire emotion-specific knowledge using appropriate statistical models.

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Additionally, the authors provide information about exploiting multiple evidences derived from various features and models. The acquired emotion-specific knowledge is useful for synthesizing emotions. Features includes discussion of:

- Global and local prosodic features at syllable, word and phrase levels, helpful for capturing emotion-discriminative information;
- Exploiting complementary evidences obtained from excitation sources, vocal tract systems and prosodic features in order to enhance the emotion recognition performance;
- Proposed multi-stage and hybrid models for improving the emotion recognition performance.

This brief is for researchers working in areas related to speech-based products such as mobile phone manufacturing companies, automobile

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companies, and entertainment products as well as researchers involved in basic and applied speech processing research.

This latest volume in the series, *Socio-Affective Computing*, presents a set of novel approaches to analyze opinionated videos and to extract sentiments and emotions. Textual sentiment analysis framework as discussed in this book contains a novel way of doing sentiment analysis by merging linguistics with machine learning. Fusing textual information with audio and visual cues is found to be extremely useful which improves text, audio and visual based unimodal sentiment analyzer. This volume covers the three main topics of: textual preprocessing and sentiment analysis methods; frameworks to process audio and visual data; and methods of

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textual, audio and visual features fusion. The inclusion of key visualization and case studies will enable readers to understand better these approaches. Aimed at the Natural Language Processing, Affective Computing and Artificial Intelligence audiences, this comprehensive volume will appeal to a wide readership and will help readers to understand key details on multimodal sentiment analysis.

This book presents an overview of how machine learning and data mining techniques are used for tracking and preventing diseases. It covers several aspects such as stress level identification of a person from his/her speech, automatic diagnosis of disease from X-ray images, intelligent diagnosis of Glaucoma from clinical eye examination data, prediction of

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protein-coding genes from big genome data, disease detection through microscopic analysis of blood cells, information retrieval from electronic medical record using named entity recognition approaches, and prediction of drug-target interactions. The book is suitable for computer scientists having a bachelor degree in computer science. The book is an ideal resource as a reference book for teaching a graduate course on AI for Medicine or AI for Health care. Researchers working in the multidisciplinary areas use this book to discover the current developments. Besides its use in academia, this book provides enough details about the state-of-the-art algorithms addressing various biomedical domains, so that it could be used by industry practitioners who want to implement AI techniques to

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analyze the diseases. Medical institutions use this book as reference material and give tutorials to medical experts on how the advanced AI and ML techniques contribute to the diagnosis and prediction of the diseases.

In this book, a novel approach that combines speech-based emotion recognition with adaptive human-computer dialogue modeling is described. With the robust recognition of emotions from speech signals as their goal, the authors analyze the effectiveness of using a plain emotion recognizer, a speech-emotion recognizer combining speech and emotion recognition, and multiple speech-emotion recognizers at the same time. The semi-stochastic dialogue model employed relates user emotion management to the

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corresponding dialogue interaction history and allows the device to adapt itself to the context, including altering the stylistic realization of its speech. This comprehensive volume begins by introducing spoken language dialogue systems and providing an overview of human emotions, theories, categorization and emotional speech. It moves on to cover the adaptive semi-stochastic dialogue model and the basic concepts of speech-emotion recognition. Finally, the authors show how speech-emotion recognizers can be optimized, and how an adaptive dialogue manager can be implemented. The book, with its novel methods to perform robust speech-based emotion recognition at low complexity, will be of interest to a variety of readers involved in human-computer interaction.

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This volume constitutes the refereed proceedings of the Second International Conference on Multimedia and Signal Processing, CMSP 2012, held in Shanghai, China, in December 2012. The 79 full papers included in the volume were selected from 328 submissions from 10 different countries and regions. The papers are organized in topical sections on computer and machine vision, feature extraction, image enhancement and noise filtering, image retrieval, image segmentation, imaging techniques & 3D imaging, pattern recognition, multimedia systems, architecture, and applications, visualization, signal modeling, identification & prediction, speech & language processing, time-frequency signal analysis.

This book constitutes the refereed

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proceedings of the 6th International Workshop on Ambient Assisted Living, IWAAL 2014, held in Belfast, UK, in December 2014. The 42 full papers presented with 12 papers of the workshop WAGER 2014 and 10 papers of a special session HTA were carefully reviewed and selected from numerous submissions. The focus of the papers is on following topics: ADL detection, recognition, classification; behavioural changes, coaching and education; AAL design and technical evaluation; expression, mood and speech recognition; health monitoring, risk prediction and assessment; localization; and user preferences, usability, AAL acceptance and adoption.

This book constitutes the refereed post-conference proceedings of the 19th International Conference on

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Information Security, ISSA 2020, which was supposed to be held in Pretoria, South Africa, in August 2020, but it was held virtually due to the COVID-19 pandemic. The 10 revised full papers presented were carefully reviewed and selected from 33 submissions. The papers deal with topics such as authentication; access control; digital (cyber) forensics; cyber security; mobile and wireless security; privacy-preserving protocols; authorization; trust frameworks; security requirements; formal security models; malware and its mitigation; intrusion detection systems; social engineering; operating systems security; browser security; denial-of-service attacks; vulnerability management; file system security; firewalls; Web protocol security; digital rights management; and distributed

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systems security.

[ICCIDE 2017](#)

[Emotion Detection While Listening to
Quran Recitation Using EEG and ECG
27th International Conference, ICONIP
2020, Bangkok, Thailand, November
23–27, 2020, Proceedings, Part I
Human-Computer Interaction.
Recognition and Interaction
Technologies](#)

[Brain Informatics](#)

[Real-time Speech and Music
Classification by Large Audio Feature
Space Extraction](#)

[Handling Emotions in Human-
Computer Dialogues](#)

[Proceedings of ICICI 2020](#)

[Concepts and Real-Time Applications
of Deep Learning](#)

[Neural Information Processing
Intelligent Data Communication](#)

[Technologies and Internet of Things](#)

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[Speech and Computer
Second International Conference,
CCSIT 2012, Bangalore, India,
January 2-4, 2012. Proceedings
Advanced Data Mining and
Applications](#)

Providing a complete review of existing work in music emotion developed in psychology and engineering, Music Emotion Recognition explains how to account for the subjective nature of emotion perception in the development of automatic music emotion recognition (MER) systems. Among the first publications dedicated to automatic MER, it begins with

This book reports on an outstanding thesis that has significantly advanced the state-of-the-art in the automated analysis and classification of speech

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and music. It defines several standard acoustic parameter sets and describes their implementation in a novel, open-source, audio analysis framework called openSMILE, which has been accepted and intensively used worldwide. The book offers extensive descriptions of key methods for the automatic classification of speech and music signals in real-life conditions and reports on the evaluation of the framework developed and the acoustic parameter sets that were selected. It is not only intended as a manual for openSMILE users, but also and primarily as a guide and source of inspiration for students and scientists involved in the design of speech and music analysis methods that can robustly handle real-life conditions.

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This book features selected high-quality research papers presented at the International Conference on Machine Intelligence and Signal Processing (MISP 2019), held at the Indian Institute of Technology, Allahabad, India, on September 7–10, 2019. The book covers the latest advances in the fields of machine learning, big data analytics, signal processing, computational learning theory, and their real-time applications. The topics covered include support vector machines (SVM) and variants like least-squares SVM (LS-SVM) and twin SVM (TWSVM), extreme learning machine (ELM), artificial neural network (ANN), and other areas in machine learning. Further, it discusses the real-time challenges involved in

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processing big data and adapting the algorithms dynamically to improve the computational efficiency. Lastly, it describes recent developments in processing signals, for instance, signals generated from IoT devices, smart systems, speech, and videos and addresses biomedical signal processing: electrocardiogram (ECG) and electroencephalogram (EEG). 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

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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.

This book presents state of art research in speech emotion recognition. Readers are first presented with basic research and applications – gradually more

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advance information is provided, giving readers comprehensive guidance for classify emotions through speech. Simulated databases are used and results extensively compared, with the features and the algorithms implemented using MATLAB. Various emotion recognition models like Linear Discriminant Analysis (LDA), Regularized Discriminant Analysis (RDA), Support Vector Machines (SVM) and K-Nearest neighbor (KNN) and are explored in detail using prosody and spectral features, and feature fusion techniques.

The three-volume set of LNCS 12532, 12533, and 12534 constitutes the proceedings of the 27th International Conference on Neural Information Processing, ICONIP 2020, held in

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Bangkok, Thailand, in November 2020. Due to COVID-19 pandemic the conference was held virtually. The 187 full papers presented were carefully reviewed and selected from 618 submissions. The papers address the emerging topics of theoretical research, empirical studies, and applications of neural information processing techniques across different domains. The first volume, LNCS 12532, is organized in topical sections on human-computer interaction; image processing and computer vision; natural language processing.

The three volume set LNICST 84 - LNICST 86 constitute the refereed proceedings of the Second International Conference on Computer Science and Information Technology, CCSIT 2012,

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held in Bangalore, India, in January 2012. The 70 revised full papers presented in this volume were carefully reviewed and selected from numerous submissions and address all major fields of the Computer Science and Information Technology in theoretical, methodological, and practical or applicative aspects. The papers feature cutting-edge development and current research in computer science and engineering.

[A Pattern Analysis Approach
19th International Conference, ISSA
2020, Pretoria, South Africa, August
25–26, 2020, Revised Selected Papers
Robust Emotion Recognition using
Spectral and Prosodic Features
Machine Intelligence and Signal
Processing](#)

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[Emotion Recognition](#)

[Computer Vision and Information
Technology](#)

[Advances in Computing and
Communications, Part III](#)

[Second International Conference,](#)

[CMSP 2012, Shanghai, China,](#)

[December 7-9, 2012, Proceedings](#)

[From Natural to Artificial Intelligence](#)

[Emotion Recognition using Speech
Features](#)

[Advances in Computer Science and
Information Technology. Computer
Science and Engineering](#)

[Information and Cyber Security](#)

[Proceedings of the 3rd International
Conference on Frontiers of Intelligent
Computing: Theory and Applications
\(FICTA\) 2014](#)

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Recognition From
Music Emotion Recognition
CRC Press

This book contains high-quality peer-reviewed papers of the International Conference on Big Data, Machine Learning and their Applications (ICBMA 2019) held at Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India, during 29–31 May 2020. The book provides significant contributions in a structured way so that prospective readers can understand how these techniques are used in finding solutions to complex engineering problems. The book covers the areas of big

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data, machine learning, bio-inspired algorithms, artificial intelligence and their applications.

In this brief, the authors discuss recently explored spectral (sub-segmental and pitch synchronous) and prosodic (global and local features at word and syllable levels in different parts of the utterance) features for discerning emotions in a robust manner. The authors also delve into the complementary evidences obtained from excitation source, vocal tract system and prosodic features for the purpose of enhancing emotion recognition performance. Features based

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on speaking rate characteristics are explored with the help of multi-stage and hybrid models for further improving emotion recognition performance. Proposed spectral and prosodic features are evaluated on real life emotional speech corpus. This book constitutes the proceedings of the 21st International Conference on Speech and Computer, SPECOM 2019, held in Istanbul, Turkey, in August 2019. The 57 papers presented were carefully reviewed and selected from 86 submissions. The papers present current research in the area of computer speech

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processing including audio signal processing, automatic speech recognition, speaker recognition, computational paralinguistics, speech synthesis, sign language and multimodal processing, and speech and language resources.

Bachelor Thesis from the year 2014 in the subject Electrotechnology, grade: 1,0, University of Stuttgart (Institut für Signalverarbeitung und Systemtheorie), course: Elektrotechnik und Informationstechnik, language: English, abstract: This thesis deals with emotion recognition from speech signals using several

feature sets and classifiers. Feature sets with different sizes are compared: the feature set of the Institute for Signal Processing and System Theory as well as standardised feature sets of eight paralinguistic challenges. The question is whether there is a connection between the size of a feature set and the performance. The feature sets are investigated with SFFS and without in combination with Naive Bayes classifier, k-Nearest-Neighbour classifier and Support Vector Machine. The goal of this thesis is to find those features which

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are selected most commonly for good performance. Diese Arbeit befasst sich mit der Erkennung von Emotionen aus Sprachsignalen. Es werden verschiedene Merkmalsätze und Klassifizierer auf ihre Leistungsfähigkeit getestet. Dabei werden Merkmalsätze mit unterschiedlichen Größen verglichen: der Merkmalsatz vom Institut für Signalverarbeitung und Systemtheorie sowie standardisierte Merkmalsätze von acht Wettbewerben, in denen paralinguistische Informationen erkannt werden sollten. Die Frage ist, ob es einen Zusammenhang zwischen der Größe eines Merkmalsatzes und der

Leistungsfähigkeit gibt. Die Merkmalsätze werden sowie mit auch als ohne Merkmalsauswahl (SFFS) in Kombination mit dem Naiven Bayes Klassifizierer, k-Nächste-Nachbarn Klassifizierer und einer Support Vector Machine untersucht. Das Ziel dieser Arbeit ist, die Merkmale zu finden, die bei den besten Merkmalsätzen am häufigsten ausgewählt wurden.

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

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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.

CSIE 2011 is an international scientific Congress for distinguished scholars engaged in scientific, engineering and

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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

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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.

[Modern Approaches in Machine Learning and Cognitive Science: A Walkthrough International Conference,](#)

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[ICPRAI 2020, Zhongshan,
China, October 19–23, 2020,
Proceedings](#)
[21st International
Conference, SPECOM 2019,
Istanbul, Turkey, August
20–25, 2019, Proceedings](#)
[International Conference, BI
2017, Beijing, China,
November 16-18, 2017,
Proceedings](#)
[Multimodal Sentiment
Analysis](#)
[Algorithms and Applications
Proceedings of ICDAM](#)
[Ambient Assisted Living and
Daily Activities](#)
[Tracking and Preventing
Diseases with Artificial
Intelligence](#)
[Emotion Recognition Based on
the Speech, Using a Naive](#)

Vergleich von verschiedenen
Merkmalssätzen und
Klassifizierern zur
Emotionserkennung von
Sprache
Proceedings of International
Conference on Computational
Intelligence and Data
Engineering
Acoustic Modeling for
Emotion Recognition
6th International Conference
on Advancements of Medicine
and Health Care through
Technology; 17-20 October
2018, Cluj-Napoca, Romania

The 3 volume-set LNCS 11566,
11567 + 11568 constitutes the
refereed proceedings of the
Human Computer Interaction
thematic area of the 21st

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International Conference on Human-Computer Interaction, HCII 2019, which took place in Orlando, Florida, USA, in July 2019. A total of 1274 papers and 209 posters have been accepted for publication in the HCII 2019 proceedings from a total of 5029 submissions. The 125 papers included in this HCI 2019 proceedings were organized in topical sections as follows: Part I: design and evaluation methods and tools; redefining the human in HCI; emotional design, Kansei and aesthetics in HCI; and narrative, storytelling, discourse and dialogue. Part II: mobile interaction; facial expressions and emotions recognition; eye-gaze, gesture and motion-based interaction; and interaction in virtual and augmented reality. Part

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III: design for social challenges; design for culture and entertainment; design for intelligent urban environments; and design and evaluation case studies. This volume contains 87 papers presented at FICTA 2014: Third International Conference on Frontiers in Intelligent Computing: Theory and Applications. The conference was held during 14-15, November, 2014 at Bhubaneswar, Odisha, India. This volume contains papers mainly focused on Network and Information Security, Grid Computing and Cloud Computing, Cyber Security and Digital Forensics, Computer Vision, Signal, Image & Video Processing, Software Engineering in Multidisciplinary Domains and Ad-hoc and Wireless Sensor

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The book presents high quality research work in cutting edge technologies and most-happening areas of computational intelligence and data engineering. It contains selected papers presented at International Conference on Computational Intelligence and Data Engineering (ICCIDE 2017). The conference was conceived as a forum for presenting and exchanging ideas and results of the researchers from academia and industry onto a common platform and help them develop a comprehensive understanding of the challenges of technological advancements from different viewpoints. This book will help in fostering a healthy and vibrant relationship between academia and

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industry. The topics of the conference include, but are not limited to collective intelligence, intelligent transportation systems, fuzzy systems, Bayesian network, ant colony optimization, data privacy and security, data mining, data warehousing, big data analytics, cloud computing, natural language processing, swarm intelligence, and speech processing.

This book features high-quality research papers presented at the 2nd International Conference on Intelligent Computing and Advances in Communication (ICAC 2019), held at Siksha ' O ' Anusandhan Deemed to be University, Bhubaneswar, Odisha, India, in November 2019. Covering a wide variety of topics, including

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management of clean and smart energy systems and environmental challenges, it is a valuable resource for researchers and practicing engineers working in various fields of renewable energy generation, and clean and smart energy management.

This volume comprises the proceedings of the International Conference on Computational Intelligence 2015 (ICCI15). This book aims to bring together work from leading academicians, scientists, researchers and research scholars from across the globe on all aspects of computational intelligence. The work is composed mainly of original and unpublished results of conceptual, constructive, empirical, experimental, or theoretical work

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in all areas of computational intelligence. Specifically, the major topics covered include classical computational intelligence models and artificial intelligence, neural networks and deep learning, evolutionary swarm and particle algorithms, hybrid systems optimization, constraint programming, human-machine interaction, computational intelligence for the web analytics, robotics, computational neurosciences, neurodynamics, bioinspired and biomorphic algorithms, cross disciplinary topics and applications. The contents of this volume will be of use to researchers and professionals alike.

This book constitutes the refereed proceedings of the International

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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 to mental health and well-being.

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

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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

[Proceedings of International
Conference on Computational
Intelligence 2015](#)

[Proceedings of International
Conference on Big Data, Machine
Learning and their Applications
Congress on Intelligent Systems
Advances in Intelligent Computing
and Communication](#)

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Recognition From

[Recent Advances in Computer
Science and Information
Engineering](#)

[6th International Work-
Conference, IWAAL 2014, Belfast,
UK, December 2-5, 2014,
Proceedings](#)

[Proceedings of ICAC 2019](#)

[Contemporary Computing](#)

[Comparison of different features
sets and classifiers for emotion
recognition of speech](#)

[Affective Information Processing
MEDITECH 2018](#)

[Advances in Computational
Intelligence](#)

[ICBMA 2019](#)

[Thematic Area, HCI 2019, Held as
Part of the 21st HCI International
Conference, HCII 2019, Orlando,
FL, USA, July 26 – 31, 2019,
Proceedings](#)

This volume constitutes the refereed proceedings of the Fourth International Conference on Contemporary Computing, IC3 2010, held in Noida, India, in August 2011. The 58 revised full papers presented were carefully reviewed and selected from 175 submissions. Speech emotion recognition is one of the latest challenges in speech processing. Besides facial expressions or gestures, speech has proven as one

of the most promising modalities for the automatic emotion recognition. To identify the emotions from the speech signal, many systems have been developed. This project presents the results from the application of Naive Bayer classifier over different types of features. Automatic detection of emotions has been evaluated using standard Mel-Frequency Cepstral Coefficients, MFCCs, and pitch related features extracted from a

speech corpus. This corpus contains a set of recorded sentences by actors and actresses which express different emotions. The classification performance is based on extracted features. The best results are around 78% of accuracy using proper layers and weights in the classifier. Classifying emotions with Naive Bayes provides quick probabilistic results and performs better than more sophisticated classifiers.

Emotion modelling and identification has attracted substantial interest from several disciplines including computer science, cognitive science and psychology. Despite the fact that many qualitative studies have been carried out on emotion, quantifying physiological signals remains one of the less-investigated aspects. Therefore, the purpose of this study is to examine various human emotions exhibited by subjects

while listening to recitations of Quranic verses based on their perceived meaning or the tone of the verse. This work focuses on understanding and analysing brain and heart activities for two groups: one group understands the language of Al-Quran, while the other group does not. This study attempts to identify the factors (content or intonation) that elicit subjects' emotions while listening to Quranic recitations. The study

uses two methods to measure subjects' physiological signals: the electroencephalogram (EEG) and the electrocardiogram (ECG). The resulting data are used to analyse subjects' emotional properties. A solution based on kernel density estimation (KDE) and mel frequency cepstral coefficients (MFCC) is proposed for recognising dynamically developing emotional patterns from EEG and ECG signals. This work uses the multilayer

perceptron (MLP) classifier. This classifier's features are based on the affective space model (ASM), which is represented by two factors: valence and arousal. The experimental setup presented in this work to elicit emotions is based on passive valence/arousal. The EEG and ECG data were collected from 20 Muslim subjects, 10 of whom understood the language of Al-Quran (Arabic), while the remainder did

not. In the experiment, visual and auditory stimuli (passive stressors) were used to induce positive and negative emotions. The International Affective Picture System (IAPS) was used to elicit emotions. The results support the use of EEGs as a reliable source for evaluating four basic human emotions. While ECGs can also successfully identify these four basic emotions, the accuracy of emotion extraction from

ECG signals is lower than the accuracy from EEG signals. Additionally, the MFCC algorithm with 12 extracted features resulted in higher accuracy than the KDE algorithm when extracting emotions from signals. The groups who understood Arabic reported lower valence than those who did not, indicating that they were affected by the content or meaning of the recitations.

This volume presents the contributions of the 6th

**International Conference
on Advancements of
Medicine and Health Care
through Technology -
MediTech 2018, held
between 17 - 20 October
2018 in Cluj-Napoca,
Romania. The papers of
this Proceedings volume
present new
developments in : -
Health Care Technology -
Medical Devices,
Measurement and
Instrumentation - Medical
Imaging, Image and
Signal Processing -
Modeling and Simulation
- Molecular**

Bioengineering - Biomechanics

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.

Data Analytics and Management

First International

Conference, ACC 2011,

Kochi, India, July 22-24,

2011. Proceedings

15th International

Conference, ADMA 2019,

Dalian, China, November

21-23, 2019, Proceedings

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Music Emotion

Recognition

Pattern Recognition and

Artificial Intelligence

4th International

Conference, IC3 2011,

Noida, India, August 8-10,

2011. Proceedings

Proceedings of CIS 2020,

Volume 2

Latest Trends in AI,

Volume 2

Proceedings of

International Conference,

MISP 2019

Advances and

Applications

Multimedia and Signal

Processing