

Digital Eavesdropper: Acoustic Speech Characteristics as Markers of Exacerbations in COPD Patients

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Abstract—Research suggests that speech deterioration indicates an exacerbation in patients with chronic obstructive pulmonary disease (COPD). This study provides a comparison of read speech of 9 stable COPD patients and 5 healthy controls (I) and 9 stable COPD patients and 9 COPD patients in exacerbation (II). Results showed a significant effect of condition on the number of (non-linguistic) in- and exhalations per syllable (I, II) and the ratio of voiced and silence intervals (II). Also, sustained vowels by 10 COPD patients in exacerbation were compared with 10 vowels in stable condition (III). Results showed an effect of condition on duration, shimmer, harmonics-to-noise ratio (HNR) and voice breaks. It was concluded that HNR, vowel duration and the number of (non-linguistic) in- and exhalations per syllable show potential for remote monitoring. Further research is needed to examine the validity of the results for natural speech and larger sample sizes.

Keywords—COPD, lung exacerbations, pulmonary disease

I. INTRODUCTION

A. Speech and Speech Disorders

Each human language consists of a set of vowels and consonants which are combined to form words. During the speech production process, thoughts are converted into spoken utterances to convey a message. The appropriate words and their meanings are selected in the mental lexicon [1]. This pre-verbal message is then grammatically encoded, during which a syntactic representation of the utterance is built. The sounds are yet to be specified, but the abstract word symbols are assigned to their grammatical function before they are structured in a syntactic frame to determine the order [2]. Subsequently, the message is phonologically encoded. During this stage, a phonetic or articulatory plan is retrieved for each individual lemma and the utterance as a whole. Finally, the speaker produces the utterance according to the phonetic plan [3].

(COPD) by investigating which aspects of speech differ between COPD patients and healthy speakers and which aspects differ between COPD patients in exacerbation and stable COPD patients.

B. Chronic Obstructive Pulmonary Disease

1) *Background*: COPD is an umbrella term used to describe progressive lung diseases characterized by airflow limitation. According to the guidelines provided by the Global Initiative for Chronic Obstructive Lung Disease [6, p. 2], the official definition of COPD is "a common, preventable and treatable disease that is characterized by persistent respiratory symptoms and airflow limitation that is due to airway and/or alveolar abnormalities usually caused by significant exposure to noxious particles or gases."

2) *Prevalence*: The prevalence of COPD worldwide is estimated at roughly 12%, but the percentage differs greatly between different subgroups [7]. Most COPD patients are suffering from stage II COPD (70%), while stage I, III and IV make up respectively 16%, 11% and 3% of the COPD population. The four greatest predictors of COPD are years and intensity of smoking, age, sex and BMI. Most patients suffering from COPD are smokers with a low BMI, over 50 years old and male [7].

Taking into account the three million annual deaths globally, COPD is currently the fourth leading cause of death in high-income countries and it is expected to be the third leading cause in 2020 due to a higher life expectancy and increasing air pollution [6, 8, 9]. However, the lung disease has been overlooked and neglected for a long time by both the public and the pharmaceutical industry. This neglect might be caused in part by the assumption that COPD is a self-inflicted health condition caused by smoking. Although smoking is the leading cause of COPD in high-income countries, over 15%

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Security, Privacy, and Anonymity in Computation, Communication, and Storage Guojun Wang,Jun Feng,Md Zakirul Alam Bhuiyan,Rongxing Lu,2019-07-10 This book constitutes the refereed proceedings of six symposiums and two workshops co located with SpaCCS 2019 the 12th International Conference on Security Privacy and Anonymity in Computation Communication and Storage The 26 full papers were carefully reviewed and selected from 75 submissions This year s symposiums and workshops are SPIoT 2019 Security and Privacy of Internet of Things TSP 2019 Trust Security and Privacy for Emerging Applications SCS 2019 Sensor Cloud Systems UbiSafe 2019 UbiSafe Computing ISSR 2019 Security in e Science and e Research CMRM 2019 Cybersecurity Metrics and Risk Modeling Next Generation Wireless Network Security and Privacy Lakhtaria, Kamaljit I.,2015-10-13 As information resources migrate to the Cloud and to local and global networks protecting sensitive data becomes ever more important In the modern globally interconnected world security and privacy are ubiquitous concerns Next Generation Wireless Network Security and Privacy addresses real world problems affecting the security of information communications in modern networks With a focus on recent developments and solutions as well as common weaknesses and threats this book benefits academicians advanced level students researchers computer scientists and software development specialists This cutting edge reference work features chapters on topics including UMTS security procedural and architectural solutions common security issues and modern cryptographic algorithms among others

5G Wireless Network Security and Privacy DongFeng Fang,Yi Qian,Rose Qingyang Hu,2023-11-02 5G WIRELESS NETWORK An expert presentation of 5G security privacy and network performance In 5G Wireless Network Security and Privacy a team of veteran engineers delivers a robust and accessible discussion of 5G security solutions including physical layer security authentication and mobility management In the book the authors expertly cover the requirements of 5G wireless network security and privacy with explorations of existing solutions and vulnerabilities from security architecture and mechanism perspectives Readers will learn how to enhance the security and network performance of 5G wireless networks in contexts like vehicle to vehicle and vehicle to infrastructure communications industrial automation health services smart cities and smart homes They will develop a comprehensive understanding of 5G wireless network security as they move through the book s 11 insightful chapters developing in depth knowledge on the current state of 5G security and coming developments in the field Readers will also find A thorough introduction to legacy cellular network security including network performance development from 1G to 4G In depth treatments of 5G network security including the motivation and objectives of 5G wireless network security Comprehensive explorations of wireless security solutions including cryptographic approaches and physical layer security Fulsome discussions of the security architecture of cellular networks including 3G and 4G security Perfect for researchers and professionals working in the field of cybersecurity and 5G wireless networks 5G Wireless Network Security and Privacy will also earn a place in the libraries of engineers computer scientists and graduate

students studying 5G network security and privacy Multi-dimensional Urban Sensing Using Crowdsensing Data Chaocan Xiang, Panlong Yang, Fu Xiao, Xiaochen Fan, 2023-03-23 Chaocan Xiang is an Associate Professor at the College of Computer Science Chongqing University China He received his bachelor s degree and Ph D from Nanjing Institute of Communication Engineering China in 2009 and 2014 respectively He subsequently studied at the University of Michigan Ann Arbor in 2017 supervised by Prof Kang G Shin IEEE Life Fellow ACM Fellow His research interests mainly include UAVs vehicle based crowdsensing urban computing Internet of Things Artificial Intelligence and big data He has published more than 50 papers including over 20 in leading venues such as IEEE Transactions on Mobile Computing IEEE Transactions on Parallel and Distributed Systems IEEE INFOCOM and ACM Ubicomp He has received a best paper award and a best poster award at two international conferences Panlong Yang is a full Professor at the University of Science and Technology of China He has been supported by the NSF Jiangsu through a Distinguished Young Scholarship and was honored as a CCF Distinguished Lecturer in 2015 He has published over 150 papers including 40 in CCF Class A Since 2012 he has supervised 14 master s and Ph D candidates including two excellent dissertation winners in Jiangsu Province and the PLA education system He has been supported by the National Key Development Project and NSFC projects He has nominated by ACM MobiCom 2009 for the best demo honored mention awards and won best paper awards at the IEEE MSN and MASS He has served as general chair of BigCom and TPC chair of IEEE MSN In addition he has served as a TPC member of INFOCOM CCF Class A and an associate editor of the Journal of Communication of China He is a Senior Member of the IEEE 2019 Fu Xiao received his Ph D in Computer Science and Technology from the Nanjing University of Science and Technology Nanjing China in 2007 He is currently a Professor and Dean of the School of Computer Nanjing University of Posts and Telecommunications He has authored more than 60 papers in respected conference proceedings and journals including IEEE INFOCOM ACM Mobihoc IEEE JASC IEEE ACM ToN IEEE TPDS IEEE TMC etc His main research interest is in the Internet of Things He is a member of the IEEE Computer Society and the Association for Computing Machinery Xiaochen Fan received his B S degree in Computer Science from Beijing Institute of Technology Beijing China in 2013 and his Ph D from the University of Technology Sydney NSW Australia in 2021 His research interests include mobile pervasive computing deep learning and Internet of Things IoT He has published over 25 peer reviewed papers in high quality journals and IEEE ACM international conference proceedings **Information Systems Security and Privacy** Paolo Mori, Steven Furnell, Olivier Camp, 2019-07-04 This book constitutes the revised selected papers of the 4th International Conference on Information Systems Security and Privacy ICISSP 2018 held in Funchal Madeira Portugal in January 2018 The 15 full papers presented were carefully reviewed and selected from a total of 71 submissions They are dealing with topics such as data and software security privacy and confidentiality mobile systems security biometric authentication information systems security and privacy authentication privacy and security models data mining and knowledge discovery phishing security architecture and design analysis security

testing vulnerability analysis and countermeasures web applications and services **Smart Intelligent Computing and Communication Technology** V.D. Ambeth Kumar, S. Malathi, Valentina Emilia Balas, Margarita Favorskaya, Thinagaran Perumal, 2021-10-15 Recent developments in the fields of intelligent computing and communication have paved the way for the handling of current and upcoming problems and brought about significant technological advancements This book presents the proceedings of IConIC 2021 the 4th International Conference on Intelligent Computing held on 26 and 27 March 2021 in Chennai India The principle objective of the annual IConIC conference is to provide an international scientific forum where participants can exchange innovative ideas in relevant fields and interact in depth through discussion with their peer group The theme of the 2021 conference and this book is Smart Intelligent Computing and Communication Technology and the 109 papers included here focus on the technological innovations and trendsetting initiatives in medicine industry education and security that are improving and optimizing business and technical processes and enabling inclusive growth The papers are grouped under 2 headings Evolution of Computing Intelligence and Computing and Communication and cover a broad range of intelligent computing research and applications The book provides an overview of the cutting edge developments and emerging areas of study in the technological fields of intelligent computing and will be of interest to researchers and practitioners from both academia and industry *AI-Driven Marketing Research and Data Analytics*

Masengu, Reason, Chiwaridzo, Option Takunda, Dube, Mercy, Ruzive, Benson, 2024-04-22 The surge in technological advancements coupled with the exponential growth of data has left marketers grappling with the need for a paradigm shift The once established methods of consumer engagement are now overshadowed by the complexities of the digital age demanding a profound understanding of artificial intelligence AI and data analytics The gap between academic knowledge and practical applications in the field of marketing has widened leaving industry professionals educators and students seeking a comprehensive resource to navigate the intricacies of this transformative era *AI Driven Marketing Research and Data Analytics* is a groundbreaking book that serves as a beacon for marketers educators and industry leaders alike With a keen focus on the symbiotic relationship between AI data analytics and marketing research this book bridges the gap between theory and practice It not only explores the historical evolution of marketing but also provides an innovative examination of how AI and data analytics are reshaping the landscape Through real time case studies ethical considerations and in depth insights the book offers a holistic solution to the challenges faced by marketing professionals in the digital age

Privacy Vulnerabilities and Data Security Challenges in the IoT Shivani Agarwal, Sandhya Makkar, Duc-Tan Tran, 2020-11-23 This book discusses the evolution of security and privacy issues in the Internet of Things IoT The book focuses on assembling all security and privacy related technologies into a single source so that students researchers academics and those in the industry can easily understand the IoT security and privacy issues This edited book discusses the use of security engineering and privacy by design principles to design a secure IoT ecosystem and to implement cyber

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Blockchain for Cybersecurity and Privacy Yassine Maleh, Mohammad Shojafar, Mamoun Alazab, Imed Romdhani, 2020-08-02 Blockchain technology is defined as a decentralized system of distributed registers that are used to record data transactions on multiple computers The reason this technology has gained popularity is that you can put any digital asset or transaction in the blocking chain the industry does not matter Blockchain technology has infiltrated all areas of our lives from manufacturing to healthcare and beyond Cybersecurity is an industry that has been significantly affected by this technology and may be more so in the future Blockchain for Cybersecurity and Privacy Architectures Challenges and Applications is an invaluable resource to discover the blockchain applications for cybersecurity and privacy The purpose of this book is to improve the awareness of readers about blockchain technology applications for cybersecurity and privacy This book focuses on the fundamentals architectures and challenges of adopting blockchain for cybersecurity Readers will discover different applications of blockchain for cybersecurity in IoT and healthcare The book also includes some case studies of the blockchain for e commerce online payment retention payment system and digital forensics The book offers comprehensive coverage of the most essential topics including Blockchain architectures and challenges Blockchain threats and vulnerabilities Blockchain security and potential future use cases Blockchain for securing Internet of Things Blockchain for cybersecurity in healthcare Blockchain in facilitating payment system security and privacy This book comprises a number of state of the art contributions from both scientists and practitioners working in the fields of blockchain technology and cybersecurity It aspires to provide a relevant reference for students researchers engineers and professionals working in this particular area or those interested in grasping its diverse facets and exploring the latest advances on the blockchain for cybersecurity and privacy

Privacy Protection Measures and Technologies in Business Organizations: Aspects and Standards Yee, George O.M., 2011-12-31 This book is a collection of research on privacy protection technologies and their application in business organizations Provided by publisher

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Table of Contents Ieee Paper For Mobile Privacy

1. Understanding the eBook Ieee Paper For Mobile Privacy
 - The Rise of Digital Reading Ieee Paper For Mobile Privacy
 - Advantages of eBooks Over Traditional Books
2. Identifying Ieee Paper For Mobile Privacy
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ieee Paper For Mobile Privacy
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ieee Paper For Mobile Privacy
 - Personalized Recommendations
 - Ieee Paper For Mobile Privacy User Reviews and Ratings

- Ieee Paper For Mobile Privacy and Bestseller Lists
- 5. Accessing Ieee Paper For Mobile Privacy Free and Paid eBooks
 - Ieee Paper For Mobile Privacy Public Domain eBooks
 - Ieee Paper For Mobile Privacy eBook Subscription Services
 - Ieee Paper For Mobile Privacy Budget-Friendly Options
- 6. Navigating Ieee Paper For Mobile Privacy eBook Formats
 - ePub, PDF, MOBI, and More
 - Ieee Paper For Mobile Privacy Compatibility with Devices
 - Ieee Paper For Mobile Privacy Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ieee Paper For Mobile Privacy
 - Highlighting and Note-Taking Ieee Paper For Mobile Privacy
 - Interactive Elements Ieee Paper For Mobile Privacy
- 8. Staying Engaged with Ieee Paper For Mobile Privacy
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ieee Paper For Mobile Privacy
- 9. Balancing eBooks and Physical Books Ieee Paper For Mobile Privacy
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ieee Paper For Mobile Privacy
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ieee Paper For Mobile Privacy
 - Setting Reading Goals Ieee Paper For Mobile Privacy
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ieee Paper For Mobile Privacy
 - Fact-Checking eBook Content of Ieee Paper For Mobile Privacy
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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