

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

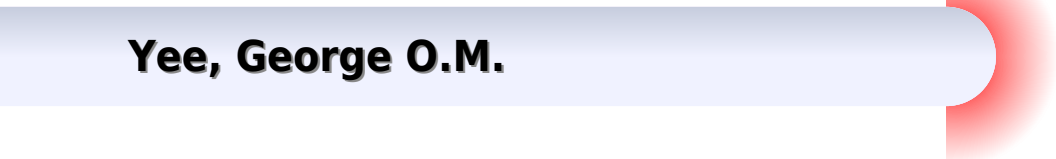
1) *Background*: COPD is an umbrella term used to describe progressive lung diseases characterized by airflow limitation. According to the guidelines provided by the Global Initiative for Chronic Obstructive Lung Disease [6, p. 2], the official definition of COPD is "a common, preventable and treatable 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

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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 been 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, ICISPP 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

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