|  |  |  |  |
| --- | --- | --- | --- |
| **Title:** | UWB Microwave Imaging for Non-Invasive Anomaly Detection in Human Lung and Possible Application in COVID-19 Diagnosis: A Review | | |
| **Author(s) Name:** | Nowshin Alam, Abir Ahmed, Md Ashif Islam Oni, Tahseen Asma Meem, Md. Abdur Rahman | | |
| **Contact Email(s):** | nowshin.alam@aiub.edu | | |
| **Published Conference Paper Name:** | UWB Microwave Imaging for Non-Invasive Anomaly Detection in Human Lung and Possible Application in COVID-19 Diagnosis: A Review | | |
| **Type of Publication:** | Conference Paper | | |
| **Volume:** | N/A | Issue | N/A |
| **Conference Name:** | 2021 2nd International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST) (AIUB) | | |
| **Publication Date:** | Feb 01, 2021 | | |
| **ISBN:** | Electronic ISBN: 978-1-6654-1576-7 Print ISBN: 978-1-6654-1574-3 | | |
| **DOI:** | https://doi.org/10.1109/ICREST51555.2021.9331250 | | |
| **URL:** | **https://ieeexplore.ieee.org/document/9331250** | | |
| **Other Related Info.:** | N/A | | |
|  | | | |

|  |  |
| --- | --- |
| **Abstract:** |  |
| In this paper an overview of the general process and important design factors of UWB Microwave Imaging is given for medical purposes, and the feasibility of its application in the context of COVID-19 detection is discussed in brief. The recent research into COVID-19 detection using other imaging technologies are reviewed for the sake of comparison, and the research limitations for employing UWB imaging for the same goal with acceptable results are identified. | |