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Sleep apnea/hypopnea is one of the common sleep disorders and the consequences of this undiagnosed disorder can range from disturbed sleep to severe heart failure and even death. The gold standard for diagnosing sleep apnea is polysomnography which requires recording of multiple of physiological signals simultaneously in a specialized sleep laboratory. Unfortunately, this test is very expensive and specialized staffs are required for analyzing the two or more nights' recordings. To resolve the limitations of PSG, in the past, numerous efforts have been made for automatic diagnosis of apnea based on fewer biological signals. On the other hand, the classification of apnea types have not been well explored in the literature. The classification of apnea type is as crucial as apnea detection as the treatment protocols depends on the event types. The treatment procedures for obstructive and central apnea is different. For the type classification, the underlying dynamics of sleep apnea events are studied by analyzing oronasal airflow and abdominal effort signals. This research work introduces a simulated lung airflow model for understanding the complex interrelationship among these two signals in different apnea conditions. In this work, the developed simulated model has been validated with actual experimental data obtained from open database. The validity of the proposed model has been presented with the help of Pearson correlation

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Applied Electronics & Instrumentation Engineering, DR. B.C. ROY Engineering College, Durgapur, India

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Sleep apnea and hypopnea syndrome (SAHS) is a common sleep disorder, characterized by repetitive periods of reduced (hypopnea) or total cessation (apnea) of breathing to the lungs during sleep for 10s or more [1]. The pauses of breathing can occur hundreds of time in a single night, and each episode of SAHS is associated with reduction in blood oxygen saturation and/or an EEG arousal. Sleep fragmentation due to frequent arousals affects the sleep-related restorative function thus, leading to excessive daytime sleepiness, poor cognitive performance, car accidents, erectile dysfunction, fatigue, and depression [2]. Moreover, SAHS has been associated with cardiovascular and cerebrovascular disorders [3]. Epidemiological data show that 4% of adult males, 2% of adult females, and 3% of children suffer from SAHS [4]. The number of apneas and hypopneas per sleep hour i.e., apnea-hypopnea index (AHI) is used to measure the severity of the SAHS.

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