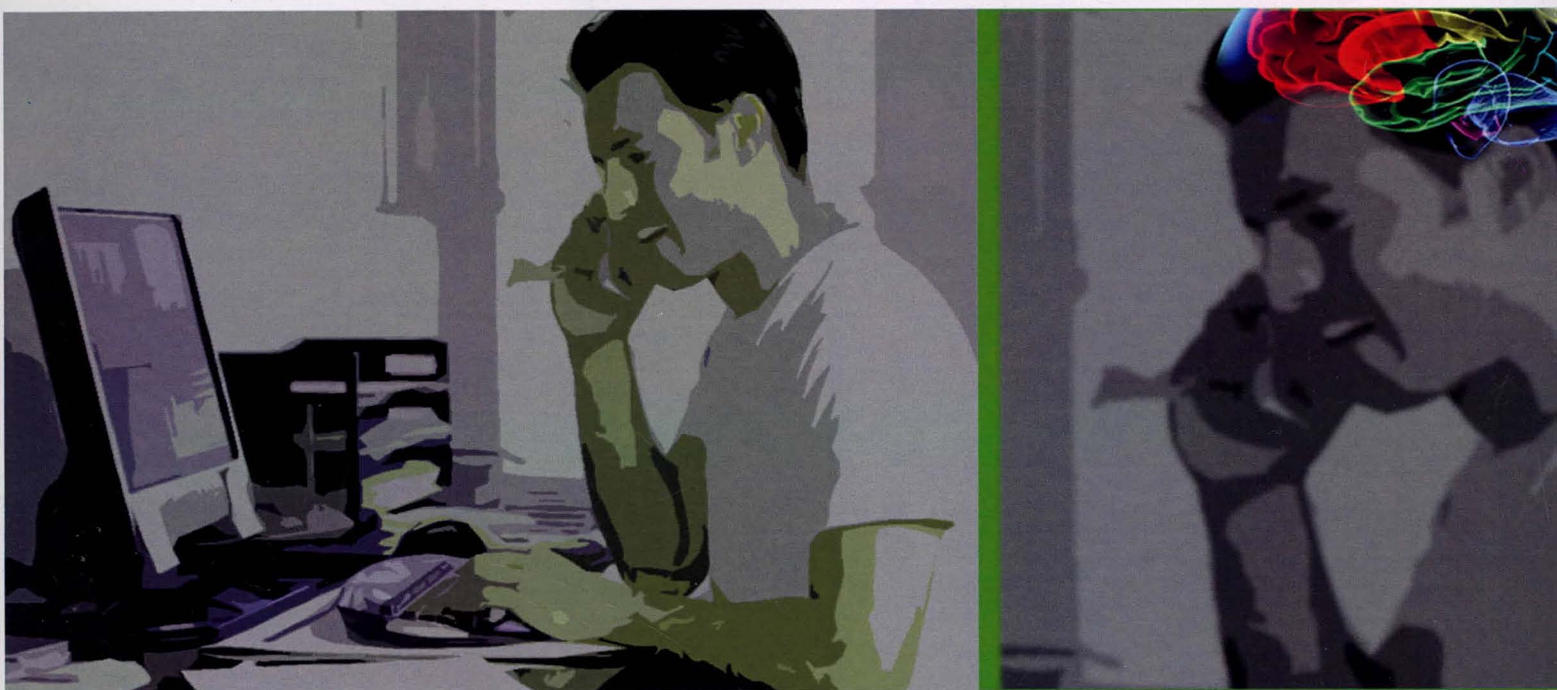


# UNDERSTANDING BRAIN DEVELOPMENTAL DISORDER BASED ON EEG IN SOFT COMPUTING APPROACH

**Abdul Wahab Abdul Rahman**



IIUM PRESS

INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

**UNDERSTANDING BRAIN  
DEVELOPMENTAL  
DISORDER BASED ON EEG  
IN SOFT COMPUTING  
APPROACH**

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**Editors**

Abdul Wahab Abdul Rahman



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# **VIEWING EMOTIONS FROM CATEGORICAL AND DIMENSIONAL PERSPECTIVES**

**HAMWIRA SAKTI YAACOB AND ABDUL WAHAB**

**ABDUL RAHMAN**

## **1.0 Abstract**

Studies of emotions had been widely viewed as being traditionally researched in psychology discipline. According to the theories of basic emotions, emotions are categorical. In other words, each of basic emotions is governed by a unique and independent neural system. On the other hand, from the dimensional perspective, a set of neural systems are posited to regulate all different emotions. Many schemes are proposed based on categorical and dimensional views. However, a study rooted from the dimensional approach has produced a prominent scheme for quantifying emotions, known as a circumplex model of affect, also known as an Affective Space Model (ASM). For a well-known 2-dimensional space model, an emotion is mapped on the space model based on values of valence and arousal. This model has been used to measure emotions from different input modalities. With the emergence of neuroimaging techniques, the