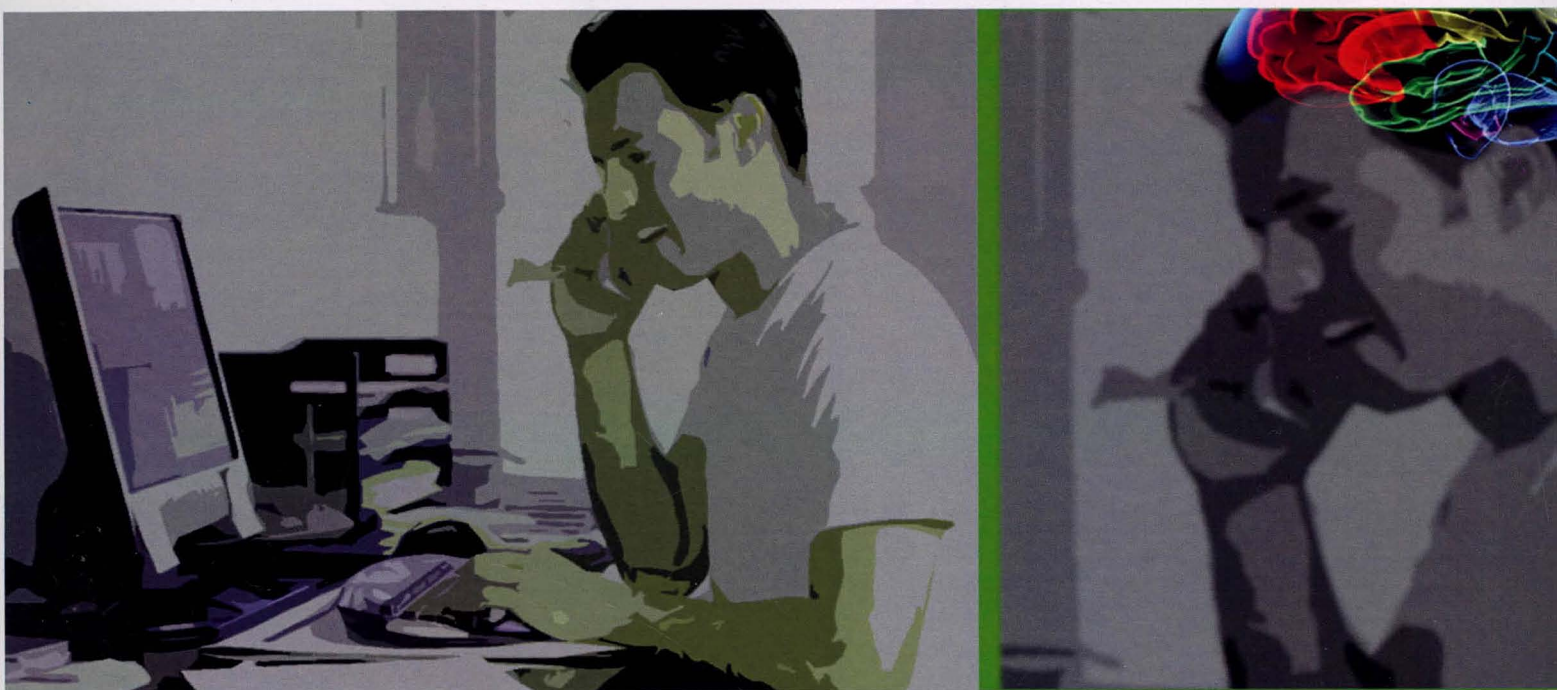


UNDERSTANDING BRAIN DEVELOPMENTAL DISORDER BASED ON EEG IN SOFT COMPUTING APPROACH

Abdul Wahab Abdul Rahman



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INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

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APPROACH**

Editors

Abdul Wahab Abdul Rahman



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UNDERSTANDING STRESS BY ANALYZING THE BRAIN WHEN SOLVING MATHEMATICAL TASK

**ABDUL WAHAB ABDUL RAHMAN AND
NORZALIZA MD NOR**

7.0 Abstract

Stress is an emergency mode of the body's reaction caused by the physical and mental pressure. Constantly running in emergency mode can be fatal to appoint where it can contribute to complication in health. Psychologist has agreed that stress is normally triggered from the human brain, thus motivating many electroencephalograms (EEG) based studies in this area. Due to the portability and the low cost of the EEG machine it is more often use in stress analysis rather than a positron emission tomography(PET) scan and functional Magnetic Resonance Imaging (fMRI). However, studies on mental stress condition using EEG pattern are scarce. Thus, this research aims to understand the pattern/signatures of EEG signal for people under stress. Computing technique, however allowed brainwaves to be sampled and efficiently analyzed, shedding knowledge which are previously hidden in the raw EEG data. EEG data will be recorded