

## AN INVESTIGATION ON AFFECTIVE COMPUTING APPLICATIONS DEVELOPED FOR DISTANCE EDUCATION SYSTEMS

Yrd. Doç. Dr. Müzeyyen Bulut Özek  
Fırat Üniversitesi, Eğitim Fakültesi  
Bilgisayar ve Öğretim Teknolojileri Eğitimi Bölümü  
[muzeyyenbulut@gmail.com](mailto:muzeyyenbulut@gmail.com)

### Abstract

Traditional educational systems take into account only cognitive dimension of learning as in most of the educational environment. However, in research it was appeared that emotions affect learning strategies, cognitive sources, motivation and academic achievement of people. Positive emotions such as love, hope, desire, belief have positive impact on learning. On the other hand the negative emotions such as anger, resentment and sadness influence an individual negatively. Therefore systems which accept body, mind and emotion together form the whole person, should be developed. Researchers have studied affective computing that deals with the possibility of making computers able to recognize human emotions using artificial intelligent techniques. Affective computing detect affect by using different types of data source like facial expressions, speech, mouse clicks and dialogs. In this study affective computing applications are investigated for modern distance education systems. With the review of the literature, it was determined affective computing attract more and more attention every day and hopes for the goal of a better learning environment.

**Key Words:** Distance education, affective computing, artificial intelligence.