

# Attachments (e-ros) (French Edition)

Original Paper

## The Multimodal Assessment of Adult Attachment Security: Developing the Biometric Attachment Test

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Abstract

**Background:** Attachment theory has been proven essential for mental health, including psychopathology, development, and interpersonal relationships. Validated psychometric instruments to measure attachment abound but suffer from shortcomings common to traditional psychometrics. Recent developments in multimodal fusion and machine learning pave the way for new automated and objective psychometric instruments for adult attachment that combine psychophysiological, linguistic, and behavioral analyses in the assessment of the construct.

**Objective:** The aim of this study was to present a new exposure-based, automatic, and objective adult-attachment assessment, the Biometric Attachment Test (BAT), which exposes participants to a short standardized set of visual and music stimuli, whereas their immediate reactions and verbal responses, captured by several computer sense modalities, are automatically analyzed for scoring and classification. We also aimed to empirically validate two of its assumptions: its capacity to measure attachment security and the viability of using themes as placeholders for rotating stimuli.

**Methods:** A total of 59 French participants from the general population were assessed using the Adult Attachment Questionnaire (AAQ), the Adult Attachment Projective Picture System (AAP), and the Attachment Multiple Model Interview (AMMI) as ground truth for attachment security. They were then exposed to three different BAT stimuli sets, whereas their faces, voices, heart rate (HR), and electrodermal activity (EDA) were recorded. Psychophysiological features, such as skin-conductance response (SCR) and Bayesky stress index; behavioral features, such as gaze and facial expressions; as well as linguistic and paralinguistic features, were automatically extracted. An exploratory analysis was conducted using correlation matrices to uncover the features that are most associated with attachment security. A confirmatory analysis was conducted by creating a single composite effects index and by testing it for correlations with attachment security. The stability of the theory-consistent features across three different stimuli sets was explored using repeated measures analysis of variances (ANOVAs).

**Results:** In total, 46 theory-consistent correlations were found during the exploration (out of 65 total significant correlations). For example, attachment security as measured by the AAP was correlated with positive facial expressions ( $r=.36, P=.01$ ). AMMI's security with the father was inversely correlated with the low frequency (LF) of HRV ( $r=-.87, P=.03$ ). Attachment security to partners as measured by the AAQ was inversely correlated with anger facial expression ( $r=-.83, P=.003$ ). The confirmatory analysis showed that the composite effects index was significantly correlated to security in the AAP ( $r=.26, P=.05$ ) and the AAQ ( $r=.30, P=.04$ ) but not in the AMMI. Repeated measures ANOVAs conducted individually on each of the theory-consistent features revealed that only 7 of the 46 (15%) features had significantly different values among responses to three different stimuli sets.

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EROS DE SOUZA .. The Canada-French cultural region was sampled from the province of Quebec .. English translation included annotations with explanations of difficult w.Keywords:: eros, neo-Victorian fiction, Platonic love, Victorian fiction novels, A. S. Byatt's Possession and John Fowles's The French Lieutenant's Woman. . and dangerous mythic force, much like the Greek version of eros, that, . (), further noting that this erotic attachment has writerly consequences.Love styles (i.e., Eros, Ludus, Storge, Mania, Pragma, Agape) were set out in companionate love contains deep attachment and friendly affection. We used the French version of the Hospital Depression and Anxiety.

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