

PANEL: “PREDICTIVE ANALYSIS IN BEHAVIORAL PSYCHOLOGY – APPLICATIONS IN POLYGRAPH ASSESSMENT, PERSONALITY ASSESSMENT AND ANTISOCIAL TENDENCIES ”.

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In recent years, the field of deception detection and the study of antisocial personality traits have seen significant advancements with the emergence of predictive analysis techniques. Recent advancements in deception detection posit that combining physiological measures, such as polygraph data, with neural markers like EEG signals, can significantly enhance accuracy in identifying deceptive behavior. This approach integrates traditional lie-detection methods with brain activity analysis to provide a more comprehensive assessment of deception. Furthermore, in the study of antisocial personality, machine learning models are now being employed to detect subtle behavioral patterns and physiological responses that are predictive of antisocial tendencies. These models use large datasets to recognize deviations from typical behavioral norms, offering a more dynamic and data-driven approach to understanding and mitigating antisocial behavior.

This panel explores the cutting-edge applications of predictive analysis in behavioral psychology, with a specific focus on polygraph testing, personality assessment, and identifying antisocial tendencies. It seeks to bridge theoretical advancements with practical applications in forensic psychology, highlighting the importance of predictive models in assessing human behavior, deception detection, and profiling antisocial behaviors.

The integration of logistic regression and machine learning techniques in deception detection through polygraph testing offers new insights into improving accuracy and reliability. Additionally, personality assessment using EEG technology introduces innovative methods for evaluating deception. The discussion extends into emerging issues such as online aggression, providing a comprehensive overview of how predictive tools can be applied in modern contexts of behavioral assessment.

The panel also brings into discussion antisocial tendencies and their predictors, exploring the use of data-driven approaches to detect early signs of deviant behavior. Key topics include advancements in understanding the psychological and physiological indicators of antisocial tendencies and how these can be mitigated in social and clinical settings.