

Abstract Book

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basic research and in clinical applications reflects its capabilities to modulate cerebral function in ways not feasible with other techniques.

POSITIVE TECHNOLOGY: USING MOBILE PHONES, BIOSENSORS AND VIRTUAL REALITY IN MENTAL HEALTH AND WELLBEING INTERVENTIONS

Andrea Gaggioli

Studies regarding the possibility of using technologies (e.g. smartphones, wearable sensors and virtual/augmented reality) to enhance mental and physical wellbeing. A new field called 'Positive Technology' has been developed, combining the objectives of Positive Psychology with advances in interaction design.

THE IMPACT OF DUAL TASK ON THE EVALUATION OF DECEPTION

Letizia Caso, Francesca Morganti and Patrizia Patrizi

Detecting liars in juridical contexts is very complex and difficult to manage with traditional techniques. Since deceiving is cognitively demanding (involving executive brain center such as the prefrontal cortex), a dual task can be tested asking to resolve a spatial test when telling the lie, analyzing both verbal and not-verbal behaviors.

STUDIES ON EVALUATION OF SUGGESTIBILITY IN JUVENILE COURTS WITH GUDJONSSON SCALE

Daniela Pajardi & Gisli Gudjonsson, M. Vagni, T. Maiorano

The evaluation of suggestibility is a very intriguing problem in forensic assessment. The Gudjonsson's GSS2 scale aims to evaluate both yield e shift suggestibility in cases of suspect child abuse. Recent studies have addressed the relations with cognitive and emotional-social aspects relevant for the juridical decision.

IS064 INNOVATIVE SCIENTIFIC METHODS FOR APPROACHING COMPLEXITY IN APPLIED PSYCHOLOGICAL RESEARCH

A02. General issues and basic processes - Research design and experimental methods

Convenor Santo Di Nuovo, University of Catania, Catania - Italy
Presenters Andrea Gaggioli, Catholic University of Milan, Milan - Italy

Barbara Colombo, Catholic University of Milan-Brescia, Brescia - Italy

Daniela Maria Pajardi, University of Urbino, Urbino - Italy Letizia Caso, University of Bergamo, Bergamo - Italy

Discussant Alessandro Antonietti, Catholic University of Milan, Milan - Italy

Complexity challenges the methods of scientific research, and the experimental approaches have possible shortcomings, regarding uses and misuses of measurement instruments, variables, statistics.

Is it possible to approach complexity in psychological applied research?

To approach complexity we need appropriate methods, suitable to integrate the classical experimental one, e.g. by monitoring directly the whole action object of study, allowing the 'sense' of the studied event to emerge.

The symposium aims to show how innovative methods and instruments can be used for psychological applications useful to fulfill social needs with full scientific validity.

After an introduction (by the proponent) regarding the methodological issues aimed at challenging complexity, the contributions to the symposium will deal with different fields of psychological applied research:

- Neurostimulation applied to rehabilitation and cognitive empowerment;
- Positive Technology applied to mental health and wellbeing interventions;
- Evaluation of deception in forensic evaluations
- Evaluation of suggestibility in Juvenile Courts.

The methodological advances and shortcomings in these different applied fields of psychology will be compared and discussed.

References:

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