

# New perspectives for developing short forms of tests

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Proponents: Ottavia M. Epifania, Rossella Caliciuri

Chair & Discussant: Rossella Caliciuri

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DIPARTIMENTO DI  
PSICOLOGIA  
GENERALE



Istituto per le Tecnologie Didattiche  
Consiglio Nazionale delle Ricerche

# Why?

Why?



Knowledge Space Theory

Machine Learning

Competence-based Knowledge Space Theory

Item Response Theory

Classical Test Theory

## Measuring the Stability of Adaptive Psychological Assessment

Debora de Chiusole et al., [debora.dechiusole@unipd.it](mailto:debora.dechiusole@unipd.it)

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**More than a short form: Using adaptive assessments to optimize clinical insight from the first session**

Umberto Granziol et al., [umberto.granziol@unipd.it](mailto:umberto.granziol@unipd.it)

# Contributions

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## Shortening tests within competence-based knowledge space theory

Pasquale Anselmi, [pasquale.anselmi@unipd.it](mailto:pasquale.anselmi@unipd.it)

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## Natural selection for items: Evaluating a genetic algorithm for developing questionnaire short forms

Marcello Passarelli, [marcello.passarelli@cnr.it](mailto:marcello.passarelli@cnr.it)



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**Will the suffering ever end? An item response theory algorithm for shortening tests**

Ottavia Epifania et al.,  [ottavia.epifania@unitn.it](mailto:ottavia.epifania@unitn.it)