Understanding the Behavioral Underpinnings of Assessment Center Role-Play Judgments: **A Machine Learning Approach**

In press at HRM! **Read it here:**



Introduction

- Assessment Center (AC) role-plays are key vehicles for employee selection and development.
- However, assessors' judgment pro**cesses** have received surprisingly little attention.
- Why? Costs of cue extraction & limitations in modeling cue integration.
- We leveraged a lens model-based machine learning (ML) approach that allows for cheap & scalable cue extraction as well as large-scale & more complex cue integration modeling.

Research Questions

Research Question 1 (How much?): How much do assessors actually rely on behavioral information when making their judgments?

Research Question 2 (How?): How do assessors integrate the available behavioral information?

Research Question 3 (What?): What information do assessors rely on?

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Results







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RQ3 (What?): Exercise-specific cue patterns, but cross-exercise consistency for behavioral dimensions and strategies: Intellectual competence and friendliness, and getting-along.

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Conclusion

First real-life behavioral predictivity **benchmark** for AC performance

Assessors strongly rely on behavior. **Cross-exercise consistent, linear** cue integration strategies emerge for more general & aggregated behavioral measures.

For fine-grained & objectively extracted **behavior**, **nonlinear** and exercise-specific cue integration strategies gain importance.

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