

Digital Platform for the Assessment of Competencies (D-PAC)

D-PAC was a four year IWT-SBO funded research project. Project partners were University of Antwerp, Ghent University and iMinds (now: imec). During this project, the merits of comparative judgement for the assessment of competencies were investigated. Research provided detailed insights into the reliability, validity and efficiency of the method. Moreover, feedback opportunities towards assessees and organisations were explored. In total, the award-winning D-PAC project will result in four doctoral dissertations.

Dissertations

Mortier, A. V. (2017). Acting upon the true self: The Role of authentic leadership in enhancing followers' well-being at work.

Van Gasse, R. (2018). The drivers and dynamics of data use interactions. Unpacking teacher collaboration.

Lesterhuis, M. (September, 2018). The validity of comparative judgement from an assessor perspective (working title).

Verhavert, S. (fall, 2018) The reliability of comparative judgement: Exploring the SSR (working title).

Articles and book chapters

Bouwer, R., Goossens, M., Mortier, A. V., Lesterhuis, M., & De Maeyer, S. (2018). Een comparatieve aanpak voor peer assessment: Leren door te vergelijken. In D. Sluijsmans & M. Segers (Eds.), *Toetsrevolutie: Naar een feedbackcultuur in het hoger onderwijs* (p. 92-106). Culemborg, NL: Phronese.

Bouwer, R., Lesterhuis, M., Bonne, P., De Maeyer, S. (2018). *Applying criteria to exemplars or learning by comparison: Which instructional practice works best for writing?* Manuscript resubmitted to Frontiers in Education.

Bouwer, R., De Smedt, F., Lesterhuis, M., De Maeyer, S., Van Keer, H. (2018). *A comparative approach to the assessment of writing: Benefits of benchmark ratings and comparative judgement.* Manuscript to be submitted for Journal of Writing Research.

Coenen, T., Coertjens, L., Vlerick, P., Lesterhuis, M, Mortier, A. V., Donche, V., Ballon, P., & De Maeyer, S. (2018). An information system design theory for the comparative judgement of competences. *European Journal of Information Systems*, 27(2), 248-261. doi:10.1080/0960085X.2018.1445461

Coenen, T. & Robijt, S. (2017). Towards FALL: a Framework for Agile Living Lab projects. *Technology Innovation Management Review*, 7(1), 37-43.

Coertjens, L., Lesterhuis, M., Verhavert, S., Van Gasse, R., & De Maeyer, S. (2017). Teksten beoordelen met criterialijsten of via paarsgewijze vergelijking: een afweging van betrouwbaarheid en tijdsinvestering. *Pedagogische Studiën*, 94(4), 283–303.

- Coertjens, L., Lesterhuis, M., Goossens, M., De Maeyer, S., De Winter, B., & Michels, N. (2018). *Assessing self-reflections in medical education using rubrics or using Comparative Judgement*. Manuscript submitted to Medical Education.
- De Kinder, T. (2016). Generaliseerbaarheid van performance assessment met behulp van paarsgewijze vergelijking (Master's thesis). University of Antwerp, Belgium.
- Deneire, A., & De Maeyer, S. (2018). *De kwaliteit van grootschalige performance assessments gewikt en gewogen*. Book is under review.
- Furlong, A., Verhavert, S., Bouwer, R., & De Maeyer, S. (2018). Effects of reference set reliability on the efficiency of a two-stage comparative judgement. Paper in preparation.
- Goossens, M., & De Maeyer, S. (2018). How to obtain efficient high reliabilities in assessing texts: rubrics vs comparative judgement. *Proceedings of Communications in Computer and Information Science*. Berlin: Springer-Verlag.
- Lesterhuis, M., Bouwer, R., De Maeyer, S., & Donche, V. (2018). *How text quality is assessed using comparative judgement: Unraveling schools of thought*. Manuscript submitted to Applied Measurement of Education.
- Lesterhuis, M., Donche, V., De Maeyer, S., Van Daal, T., Van Gasse, R., Coertjens, L., et al. (2015). Competenties kwaliteitsvol beoordelen: brengt een comparatieve aanpak soelaas? *Tijdschrift Voor Hoger Onderwijs*, 1–12.
- Lesterhuis, M., Van Gasse, R., & Verhavert, S. (2018). *What does the misfit statistic mean?* Paper in preparation.
- Lesterhuis, M., Verhavert, S., Coertjens, L., De Maeyer, S., Donche, V. (2016). *Comparative Judgement as a promising alternative to score competences*. In Innovative Practices for Higher Education Assessment and Measurement.
- Lesterhuis, M., Van Daal, T., Van Gasse, R., Coertjens, L., Donche, V., & De Maeyer (2018). When teachers compare argumentative texts: Decisions informed by multiple complex aspects of text quality. *Accepted for publication in L1-Educational Studies in Language and Literature*.
- Lesterhuis, M., Van Daal, T., Donche, V., & De Maeyer, S. (2018). *Comparing texts: The role of the difference in text quality and text quality on the aspects that assessors discriminate*. Paper in preparation for Educational Measurement.
- Maquet, T. (2018). Beoordelingsprocessen van experten en novieten bij comparatief beoordelen van schrijfoopdrachten (Master's thesis). University of Antwerp, Belgium.
- Mortier, A. V., Bouwer, R., Coertjens, L., Volckaert, E., Vrijdag, A., Van Gasse, R., Vlerick, P., & De Maeyer, S. (2018). *De comparatieve beoordelingsmethode voor een betrouwbare en valide cv screening: een vergelijking tussen experts en studenten*. Manuscript submitted to Gedrag & Organisatie.
- Mortier, A. V., Lesterhuis, M., Vlerick, P., & De Maeyer, S. (2015). Comparative judgement within online assessment: Exploring students feedback reactions. *Proceedings of Communications in Computer and Information Science 571*, 69-79. doi: 10.1007/978-3-319-27704-2_8
- Mortier, A. V., Lesterhuis, M., Vlerick, P., Donche, V., & De Maeyer, S. (2016). Supporting students to provide valuable feedback: does comparative judgement offer a valuable alternative? Manuscript in revision.
- Roose, I., Goossens, M., Vanderlinde, R., Vantieghem, W., & Van Avermaet, P. (2018). Measuring professional vision of inclusive classrooms through video-based comparative judgement: An expert study. *Studies in Educational Evaluation*, 56, 71-84. doi:<https://doi.org/10.1016/j.stueduc.2017.11.007>

- Settembri P., Van Gasse R., Coertjens L., De Maeyer S. (2018) Oranges and Apples? Using Comparative Judgement for Reliable Briefing Paper Assessment in Simulation Games. In: Bursens P., Donche V., Gijbels D., Spooren P. (eds), *Simulations of Decision-Making as Active Learning Tools. Professional and Practice-based Learning*, vol 22. Springer, Cham
- Sinakou E, Boeve-de Pauw J, Goossens M, Van Petegem P, Academics in the field of Education for Sustainable Development: Their conceptions of sustainable development, *Journal of Cleaner Production* (2018), doi: 10.1016/j.jclepro.2018.02.279.
- Van Daal, T., Lesterhuis, M., Coertjens, L., van de Kamp, M.-T., Donche, V., & De Maeyer, S. (2017). The Complexity of Assessing Student Work Using Comparative judgement: The Moderating Role of Decision Accuracy. *Frontiers in Education*, 2, 1–14. doi:10.3389/feduc.2017.00044
- Van Daal, T., Lesterhuis, M., Coertjens, L., Donche, V., & De Maeyer, S. (2016). Validity of comparative judgement to assess academic writing: Examining implications of its holistic character and building rank-orders on a shared consensus. *Assessment in Education: Principles, Policy & Practice*. Advance online publication. doi:10.1080/0969594X.2016.1253542
- Van de Kamp, M. T. A. (2017). Reimagine, redesign and transform (chapter 3 in unpublished doctoral dissertation). Amsterdam: University of Amsterdam.
- Van Gasse, R., Bouwer, R., Goossens, M., & De Maeyer, S. (2017). Competenties kwaliteitsvol beoordelen met D-PAC. *Examens: Tijdschrift voor de Toetspraktijk*, 1(1), 11-17.
- Van Gasse, R., Goossens, M., Mortier, A., Vanhoof, J., Van Petegem, P., Vlerick, P., De Maeyer, S. (2017). Feedback opportunities of comparative judgement: An overview of possible features and acceptance at different user levels. In Joosten-ten Brinke D., Laanpere M. (Eds.), *Technology Enhanced Assessment. TEA 2016. Communications in Computer and Information Science* (vol. 653). Springer, Cham.
- Van Gasse, R., Lesterhuis, M., Verhavert, S., Bouwer, R., Vanhoof, J., Van Petegem, P., & De Maeyer, S. (2017). *Encouraging professional learning communities to increase the shared consensus in writing assessments: The added value of Comparative Judgement*. Manuscript submitted to Educational Assessment, Evaluation and Accountability.
- Verhavert, S., Bouwer, R., Donche, V., & De Maeyer, S. (2018). *A meta-analysis of comparative judgement studies: How many comparisons are needed for reliable judgements*. Manuscript submitted for Assessment in Education: Principles, Policy, & Practice.
- Verhavert, S., De Maeyer, S., Donche, V., & Coertjens, L. (2017). Scale separation reliability: what does it mean in the context of comparative judgement? *Applied Psychological Measurement*, 9, 1-18. doi:10.1177/014662161774832
- Verhavert, S., Donche, V., De Maeyer, S. & Coertjens, L. (2018). *Identifying adaptive algorithms for increasing Comparative Judgement efficiency: review study*. Manuscript to be submitted to Educational and Psychological Measurement.

Written and online media

Blog posts are published at the D-PAC website: <https://www.d-pac.be/in-de-praktijk/>

OnderwijsOntwikkeling Zuyd Hogeschool (13-02-2017). Competenties makkelijker en beter beoordelen met D-PAC. <https://onderwijsontwikkeling.zuyd.nl/2017/02/13/competenties-makkelijker-en-beter-beoordelen-met-d-pac/>

Featured article in Media & Learning Newsletter (01-03-2017). Which video is better? Assessing videos in an easy and credible way with D-PAC. https://media-and-learning.eu/files/newsletter/Media-and-Learning-News_2017-03.pdf

Platform Leren van Toetsen (5-09-2017). Zo laat je je studenten lessen trekken uit krachtige feedback met D-PAC. <https://lerenvantoetsen.com/2017/09/05/zo-laait-je-je-studenten-lessen-trekken-uit-krachtige-feedback-met-d-pac/>

University of Antwerp (15-12-2017). Technology offer for D-PAC, a Digital Platform for the Assessment of Competences. <https://www.uantwerpen.be/images/uantwerpen/container29974/files/TTO-25-ENG-171211-Dpac.pdf>

Tijdschrift voor Examens (05-2018): De prijs voor Examens 2017 toegekend aan D-PAC. Interview met Ad de Jongh voor Examens, het tijdschrift voor de toetspraktijk.

De Standaard (01-06-2018): Leerlingen zijn precies als schoenen. Opinion letter published in the Flemish daily newspaper. Beschikbaar via: http://www.standaard.be/cnt/dmf20180531_03540035

Awards and prizes

2016: Best paper award by the Open Living Lab Days in Montreal, Canada for "Towards FALL: a framework for agile living lab projects" author Tanguy Coenen.

November 2016: Nominated with D-PAC for the EAPRIL Best Research & Practice Award (Portugal, runner-up) .

October 2017: Jury award for D-PAC for best examination practice by the Dutch board of Examinations (www.nvexamens.nl).