

The first year of the *Journal of Dynamic Decision Making*

Andreas Fischer, Daniel V. Holt, and Joachim Funke

Department of Psychology, Heidelberg University

We are proud to announce the completion of our first volume 2015, which comprises a range of interesting findings about modelling, training, and assessing Dynamic Decision Making (DDM).

Summary of contributions

These contributions to the first volume of the *Journal of Dynamic Decision Making* exemplify many relevant aspects of DDM as well as multiple perspectives that can be taken to investigate this multi-faceted phenomenon: Dutt and Gonzalez (2015) demonstrate the benefit of using process-data in decision modeling to explain both process and outcomes of DDM. Güss, Tuason and Orduña (2015) write about decision making in complex dynamic environments and investigated how performance can be predicted by observations of certain strategies, tactics, and errors. Kretzschmar and Süß (2015) present an extensive training study and found that training with multiple complex environments had positive effects on knowledge acquisition but not on knowledge application in a DDM transfer task. Hundertmark et al. (2015) report differential effects of cognitive ability on performance in different kinds of DDM tasks (e.g., effects are smaller in case of negative feedback), and Fischer and Neubert (2015) propose a model of problem solving competence (composed of knowledge, skills, abilities and other components) that explains what is required to handle complex dynamic environments. As editors, we are pleased by the breadth and quality of the initial contributions and thank the authors for supporting JDDM!

To visualize the various aspects of DDM and perspectives that are represented in our first volume we decided to build a word cloud based on all the papers of this volume (see Figure 1). Besides being a characterization of our first volume, Figure 1 represents the close connection between DDM and problem solving in complex dynamic environments – “problem”, “model”, “complex problems solving” and “decision” were among the most frequent terms. Further, the figure highlights the importance of “processes”, “knowledge”, “strategies”, and “abilities” for understanding DDM.

Plans for the future

In the future we hope to present more research on the aspects highlighted by Figure 1, but we are also encouraging researchers from different domains of research (e.g., economics, philosophy, or computer science) to contribute



Figure 1. Word cloud based on the relative frequency of thematically relevant terms in the introduction- and discussion-sections of the first volume (2015) of JDDM. Relative frequency of each word (i.e., frequency per length of section summed across all sections) is represented by font size and shading.

their perspectives respectively. In addition to the articles mentioned above, many researchers followed our call to publish supplementary materials such as data sets or cognitive models. This provides interesting material for the readers of the *Journal of Dynamic Decision Making*, and it fosters the replicability of research.

We hope that the contributions to our first volume will encourage more researchers around the world to contribute interesting and replicable research on DDM, and to ensure the *Journal of Dynamic Decision Making* will become a well-balanced journal that represents a wide range of views on all the different aspects of this fascinating topic.

Starting this year, we will also launch a JDDM news blog to aggregate information about interesting papers, new tools or models, conferences, media coverage, or real-world applications of DDM. So, if you have any relevant news about DDM to share, please get in touch!

Appendix: Reviewers and guest editors for JDDM in 2015

We want to thank all our reviewers and guest editors, who did a great job in fostering the quality of submissions:

- Joachim Funke,
- Daniel V. Holt,
- Florian Kutzner (guest editor),
- Magda Osman,
- Jan Rummel (guest editor),
- Wolfgang Schoppek,
- Robert Sternberg,
- David Tobinski.

Declaration of conflicting interests: The authors declare they have no conflict of interests.

Author contributions: All authors contributed equally to the manuscript.

Handling editor: Andreas Fischer

Copyright: This work is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License.

Citation: Fischer, A., Holt, D. V., & Funke, J. (2016). The first year of the Journal of Dynamic Decision Making. *Journal of Dynamic Decision Making*, 2, 1. doi:10.11588/jddm.2016.1.28995

Published: 18 March 2016

References

- Dutt, V. & Gonzalez, C. (2015). Accounting for outcome and process measures in dynamic decision-making tasks through model calibration. *Journal of Dynamic Decision Making*, 1, 2. doi:10.11588/jddm.2015.1.17663
- Fischer, A. & Neubert, J.C. (2015). The multiple faces of complex problems: A model of complex problem solving competency and its assessment. *Journal of Dynamic Decision Making*, 1, 6. doi:10.11588/jddm.2015.1.23945
- Güss, C. D., Tuason, M. T., & Orduña, L.V. (2015). Strategies, tactics, and errors in dynamic decision making in an Asian sample. *Journal of Dynamic Decision Making*, 1, 3. doi:10.11588/jddm.2015.1.13131
- Hundertmark, J., Holt, D. V., Fischer, A., Said, N., & Fischer, H. (2015). System structure and cognitive ability as predictors of performance in dynamic system control tasks. *Journal of Dynamic Decision Making*, 1, 5. doi:10.11588/jddm.2015.1.26416
- Kretschmar, A. & Süß, H.-M. (2015). A study on the training of complex problem solving competence. *Journal of Dynamic Decision Making*, 1, 4. doi:10.11588/jddm.2015.1.15455