

# Foreword to *The Computational Evolution of Cognitive Architectures* by Kotseruba and Tsotsos

Frank E. Ritter  
frank.ritter@psu.edu  
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I greatly enjoyed reading Kotseruba and Tsotso's very useful journal article (2020) providing a review of cognitive and agent architectures. I also enjoyed and profited from reading this longer version, *The Computational Evolution of Cognitive Architectures*, which updates and extends their survey. This book provides a comprehensive review of the literature that includes many useful references and summaries of work along with a framework for interpreting what has been accomplished so far. Their expanded survey is the largest, most comprehensive, insightful, and informative to date.

This book will inspire further work. It provides much useful material for thinking about work in this area and seeing where progress has been made. Equally or perhaps even more importantly, it will help the reader to see where progress has not been made and where the reader can find areas to make progress based on the reader's interests, capabilities, and resources. In my case, it has suggested changes to two books and three projects I'm working on now (e.g., Ritter & Serdiuk, 2024). Thus, this book will be useful for modeling courses, for advanced modelers, and those wanting a survey of the field. The deeper you look into it, the more you will find.

## References

- Kotseruba, I., & Tsotsos, J. K. (2020). A review of 40 years of cognitive architecture research: Focus on perception, attention, learning and applications. *AI Review*, 53, 17–94.
- Ritter, F. E., & Serdiuk, S. (2024). Towards a comprehensive summary of the senses for cognitive architectures. In *Proceedings of 22nd International Conference on Cognitive Modeling (ICCM)*. 152-158.