

PUBLICATIONS

V. Modi, Y. Chen, A. Madan, S. Sueda, and D. I. W. Levin. Multi-agent path planning with heterogenous interactions in tight spaces. *Computer Graphics Forum*.

Abhishek Madan and David I.W. Levin. Fast evaluation of smooth distance constraints on co-dimensional geometry. *ACM Trans. Graph.*, 41(4), 2022.

Abhishek Madan, Alec Jacobson, and David I. W. Levin. Diffusion Structures for Architectural Stripe Pattern Generation. *arXiv e-prints*, page arXiv:2011.05550, November 2020.

Janusz A. Brzozowski, Sylvie Davies, and Abhishek Madan. State complexity of single-word pattern matching in regular languages. In *Descriptive Complexity of Formal Systems*, pages 86–97, 2019.

Dave Pagurek van Mossel, Abhishek Madan, Tai Meng Liu, Paul Bardea, and Andrew McBurney. Controlling procedural modelling interactively with guiding curves. In *Proceedings of Graphics Interface 2019*, 2019.

Janusz A. Brzozowski, Sylvie Davies, and Abhishek Madan. State complexity of pattern matching in regular languages. *Theoretical Computer Science*, 777:121 – 131, 2019.

AWARDS

- **Ontario Graduate Scholarship** (2020–2021)

TEACHING EXPERIENCE

- CSC 2521 — Seminar in Geometry and Animation (University of Toronto), Guest Lecturer, Fall 2022
- CSC 417 — Physics-Based Animation (University of Toronto), Teaching Assistant, Fall 2020
- CSC 418/317 — Computer Graphics (University of Toronto), Teaching Assistant, Fall 2019, Winter 2020, Winter 2021, Winter 2022, Fall 2022