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Books and Book Chapters

- [1] **Mubbasir Kapadia**. *Authoring and Evaluating Autonomous Virtual Human Simulations*. Lambert Academic Publishing, 2012.
- [2] **Mubbasir Kapadia** and Norman I. Badler. Navigation and steering for autonomous virtual humans. *Wiley Interdisciplinary Reviews: Cognitive Science*, 2013.
- [3] **Mubbasir Kapadia**, Alexander Shoulson, Funda Durupinar, and Norman Badler. Authoring Diversity in Personality and Behavior for Multi-Actor Simulations. In *Modeling, Simulation and Visual Analysis of Large Crowds*. Springer-Verlag, 2012 (Book Chapter, To appear).

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- [1] Alejandro Beacco Porres, Nuria Pelechano, Mubbasir Kapadia, and Norman I. Badler. Footstep parameterized motion blending using barycentric coordinates. *Computers and Graphics*, 2014 (To Appear).
- [2] Kai Ninomiya, Mubbasir Kapadia, Alexander Shoulson, Francisco Garcia, and Norman Badler. Planning approaches to constraint-aware navigation in dynamic environments. *Computer Animation and Virtual Worlds*, pages n/a–n/a, 2014.
- [3] Cory D. Boatright, **Mubbasir Kapadia**, Jennie M. Shapira, and Norman I. Badler. Generating a Multiplicity of Policies for Agent Steering in Crowd Simulation. *Journal of Computer Animation and Virtual Worlds*, 2014.
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- [2] Glen Berseth, Brandon Haworth, **Mubbasir Kapadia**, and Petros Faloutsos. Characterizing and Optimizing Game Level Difficulty. In *ACM SIGGRAPH International Conference on Motion in Games*, 2014.
- [3] Glen Berseth, **Mubbasir Kapadia**, Brandon Haworth, and Petros Faloutsos. SteerFit: Automated Parameter Fitting for Steering Algorithms. In *ACM SIGGRAPH/Eurographics Symposium on Computer Animation*, SCA '14, New York, NY, USA, 2014. ACM.
- [4] F.M. Garcia, M. Kapadia, and N.I. Badler. Gpu-based dynamic search on adaptive resolution grids. In *Robotics and Automation (ICRA), 2014 IEEE International Conference on*, pages 1631–1638, May 2014.
- [5] Tianyu Huang, **Mubbasir Kapadia**, Norman I. Badler, and Marcelo Kallmann. Path Planning for Coherent and Persistent Groups. In *IEEE International Conference on Robotics and Automation (ICRA)*, 2014 (To Appear).
- [6] Yu Wang, **Mubbasir Kapadia**, Pengfei Huang, Ladislav Kavan, and Norman I. Badler. Sound Localization and Multi-Modal Steering for Autonomous Agents. In *ACM SIGGRAPH I3D*, 2014.
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- [18] Mubbasir Kapadia, I-kao Chiang, Tiju Thomas, Norman I. Badler, and Joseph T. Kider, Jr. Efficient Motion Retrieval in Large Motion Databases. In *Proceedings of the ACM SIGGRAPH Symposium on Interactive 3D Graphics and Games, I3D '13*, pages 19–28, New York, NY, USA, 2013. ACM.
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- [2] Norman I. Badler, **Mubbasir Kapadia**, Jan Allbeck, Yiorgos Chrysanthou, Nuria Pelechano, and Stephen Guy. Simulating heterogeneous crowds with interactive behaviors. In *EUROGRAPHICS 2014 Tutorials*, April 2014.

Technical Reports and Theses

- [1] Glen Berseth, Petros Faloutsos, and **Mubbasir Kapadia**. SteerFit: Automated Parameter Fitting for Steering Algorithms. York University, March 2014.
- [2] **Mubbasir Kapadia**. *Authoring and Evaluating Autonomous Virtual Human Simulations*. PhD thesis, Los Angeles, CA, 2011 (Published as a book).
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- [4] **Mubbasir Kapadia**, Petros Faloutsos, and Glenn Reinman. Egocentric Affordance Fields in Pedestrian Steering. Intel Software Network, May 2011.
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