Funda Durupınar Babur

Contact Information	E-mail: fundad@cs.bilkent.edu.tr Homepage: www.cs.bilkent.edu.tr/~fundad	
Research Interests	Computer graphics, animation, autonomous intelligent agents, crowd simulation, simulating psychology of virtual agents	1-
Education		
	Bilkent University, Ankara, Turkey	
	• Ph.D., Computer Engineering, July 2010	
	Thesis Topic: Crowd Simulation with Psychological Factors Advisor: Assoc. Prof. Dr. Uğur Güdükbay	
	• M.S., Computer Engineering, 2004	
	Thesis Topic: A 3D Garment Design and Simulation System Advisor: Assoc. Prof. Dr. Uğur Güdükbay	
	Middle East Technical University, Ankara, Turkey	
	• B.S., Computer Engineering, 2002	
	• Minor, Psychology, 2002	
Awards		
	• Scholarship by TUBITAK (The Scientific and Technological Research Council of Turkey) International Fellowship Programme, 2007	of
	• Full Scholarship, including tuition, stipend, and accommodation by Bilkent Un versity, 2002-2010	i-
	\bullet Top 0.01 percentile in National University Entrance Exam, 1997	
	• Ranked 1st upon graduation from Samsun Anatolian High School, 1997	
	\bullet Ranked 3rd in Blacksea Region in National TUBITAK Biology Exams, 1996	
Academic and		
WORKING EXPERIENCE	University of Pennsylvania, Philadelphia, PA, USA	
	• Post-Doctoral Researcher, The Center for Human Modeling and Simulation, 2011 Current	L-
	 Visiting Research Scholar, The Center for Human Modeling and Simulation, 2007 2008 	7-
	Advisor: Prof. Dr. Norman Badler	
	Bilkent University University, Ankara, Turkey	
	Teaching Assistant 2002-201	0

Courses taught:

- * Algorithms and Programming I-II,
- * Introduction to Computing in Engineering and Science,
- * Introduction to Object-Oriented Programming,
- * Introduction to Computing for Social Sciences,
- * Principles of User Interface Design,
- * Computer Graphics I-II

Research Assistant

Participated projects:

- * 3DTV- Integrated 3-D Television: Capture, Transmission and Display, European Council FP6 Network of Excellence Project, 2004-2008
- * Developing an Urban Visualization System for Virtual Environments Using Computer Graphics, *TUBITAK Project*, 2004-2008

TUBITAK-BILTEN

(Information Technologies and Electronic Research Institute), Ankara, Turkey

Summer intern

June-August 2001

Worked on the testing and integration of an OCR program Designed and implemented an LDAP client program

Turkish Armed Forces-Middle East Technical University Modeling and Simulation Laboratory, Ankara, Turkey

Summer intern

June-August 2000

Worked on a radar simulation project

Professional Activities	Program Committee Member
	3DTV Conference, 2011
	10th International Conference on Intelligent Virtual Agents (IVA 2010)
	Reviewer for
	IEEE Computer Graphics and Applications
	Transactions of the Society for Modeling and Simulation International
	Computers & Graphics
	Computer-Aided Design
Journal Publications	O. Oguz, F. Durupinar, U. Gudukbay. Dynamic Point-Region Quadtrees for Particle Simulations, Information Sciences, 2012.
	F. Durupinar, N. Pelechano, J. Allbeck, U. Gudukbay, N. Badler. How the Ocean Personality Model Affects the Perception of Crowds. <i>IEEE Computer Graphics and</i> <i>Applications</i> .pp. 22–31, May/June 2011.
	F. Durupinar and U. Gudukbay. Visualization of Crowd Synchronization on Foot- bridges. Journal of Visualization, 3(1), pp. 6977, 2009.

F. Durupinar and U. Gudukbay. Procedural Visualization of Knitwear and Woven Cloth. Computers and Graphics, 31(5), pp. 778-783, 2007.

2002-2010

Book Chapters	M. Kapadia, A. Shoulson, F. Durupinar, N. Badler. Authoring Personality and Behavior in Multi-Actor Simulations. In Modeling, Simulation and Visual Analysis of Large Crowds. Springer-Verlag, 2012. (To be published)
	U. Gudukbay and F. Durupinar. Three-Dimensional Scene Representations: Modeling, Animation, and Rendering Techniques. In Haldun M. Ozaktas, Levent Onural (Eds.), <i>Three-Dimensional Television: Capture, Transmission, and Display (ch. 6)</i> , Springer Verlag, 2007.
Conference Publications	F. Durupinar, J. Allbeck, N. Pelechano, and N. Badler. Creating Crowd Variation with the OCEAN Personality Model. <i>Proceedings of Autonomous Agents and Multi-Agents Systems (AAMAS'08)</i> , vol. 3, pp. 1217-1220, 2008.
	F. Durupinar and U. Gudukbay. A Virtual Garment Design and Simulation Sys- tem. Proceedings of the 11'th International Conference on Information Visualization (IV07), pp. 862-867, 2007.
	F. Durupinar. Classification of Textures Under Various Lighting and Viewing Con- ditions. Proceedings of the 14th Turkish Symposium on Artificial Intelligence and Neural Networks (TAINN'05), pp. 169-178, 2005.
	F.Durupinar, U. Kahramankaptan and I. Cicekli. Intelligent Indexing, Retrieval and Construction of Crime Scene Photographs. Proceedings of the 13th Turkish Sympo- sium on Artificial Intelligence and Neural Networks(TAINN'04), pp. 297-306, 2004.
Theses	F. Durupinar. From Audiences to Mobs: Crowd Simulation with Psychological Factors. Ph.D. Thesis. 2010.
	F. Durupinar. A 3D garment design and simulation system. M.S. Thesis. 2004.
TECHNICAL SKILLS	
	Programming Languages: C, C++, C ^{\sharp} , Pascal, Lisp, Prolog, Scheme, SML/NJ, Delphi, Visual Basic, Matlab, Java, Cg Libraries: OpenGL, Glut, Cal3d Hardware: 80x86 Assembly Language, MIPS Operating Systems: Microsoft Windows, Linux, UNIX Software: Unity, Matlab
LANGUAGES	Turkish (Native) English (Advanced)
References	Available upon request