

İlker Yıldırım

CONTACT INFORMATION	Department of Computer Engineering Boğaziçi University, 34342, Bebek İstanbul, Turkey	ilker.yildirim@boun.edu.tr http://www.cmpe.boun.edu.tr/~iyildirim
RESEARCH INTERESTS	machine learning, multiagent systems, probabilistic models of perception and cognition, statistical analysis of large graphs, social simulation.	
EDUCATION	M.S. in Computer Engineering, 2007-2009 (expected), current GPA: 3.92 Boğaziçi University, İstanbul, Turkey, Advisor: Dr. Pinar Yolum Summer School, 10 th European Agent Systems Summer School, May 5-9, 2008 Organized by IFAAMAS Lisbon, Portugal B.S. in Computer Engineering, <i>with honors</i> , 2003-2007 Boğaziçi University, İstanbul, Turkey, Research Advisor: Dr. Pinar Yolum Senior Project: Achieving and Maintaining Collaborative Symbiotic Groups through Reciprocity	
AWARDS	The Scientific and Technological Research Council of Turkey (TUBITAK) travel grant, 2008 Ranked 95 th among 1.500.000 students in national university entrance examination, 2003 Valedictorian in high school graduation, 2003 Full Scholarship by Turkish Ministry of National Education to pursue undergraduate degree in USA, 2003 Full Residential Scholarship by Boğaziçi University due to very high ranking in university entrance examination, 2003-2007	
PUBLICATIONS	İlker Yıldırım and Pinar Yolum, "Hybrid Models for Achieving and Maintaining Collaborative Symbiotic Groups". <i>submitted to Mind&Society</i> , Springer. İlker Yıldırım and Pinar Yolum, "Hybrid Models for Achieving and Maintaining Collaborative Symbiotic Groups". <i>In Proceedings of the Fifth Conference of European Social Simulation Association, ESSA'08</i> , 2008. İlker Yıldırım, "A Cooperative Multiagent Architecture for Turkish Sign Language Tutors". <i>In Proceedings of Student Session of 10th European Agent Systems Summer School, EASSS'08</i> , 2008.	
PRESENTATIONS	"A Cooperative Multiagent Architecture for Turkish Sign Language Tutors", <i>in the 10th European Agent Systems Summer School, EASSS'08</i> , on May 7 2008, Lisbon, Portugal.	

"Hybrid Models for Achieving and Maintaining Collaborative Symbiotic Groups", *in the Fifth Conference of European Social Simulation Association, ESSA'08*, on Sept 9 2008, Brescia, Italy.

RESEARCH
EXPERIENCE

A Multiagent Architecture for Turkish Sign Languages:

with Prof. Pınar Yolum, *Research Assistant*, September 2007-present

In this project we are developing a multiagent system in which each agent models other agents in the system in terms of the extent and depth of their knowledge in a particular concept. But we want an agent to be able to effectively model another agent just after a few interactions with that other agent. We are developing a Bayesian model, by combining the data coming from few number of interactions and the possible structures of knowledge, to accomplish that task.

Hybrid Models for Achieving and Maintaining Cooperative Groups:

with Prof. Pınar Yolum, *undergraduate researcher*, September 2006-August 2007

In this project we investigated the problem of selfish invasion in cooperative symbiotic groups. In particular, we modeled reciprocity in several ways in order to achieve maintained and emergent groups.

Cooperation with Complement is Better:

with Prof. Haluk Bingol, *Research Assistant*, December 2007-present

We investigated a crucial aspect of cooperation: is it better to cooperate with the similar, or with the complement. For that purpose we designed and implemented a simulation model. In a setting in which agents could cooperate with other similar agents as well as complement agents, we studied the success of agents who are more inclined to cooperate with similar agents and who are more inclined to cooperate with complement agents.

PROFESSIONAL
EXPERIENCE

Research Assistant, Boğaziçi University, İstanbul, 2007-present

Lab. Teaching Assistant, Boğaziçi University, İstanbul, Fall 2006

INTERNSHIP
EXPERIENCE

Aradiom Enabling Mobility, İstanbul, summer 2006

Designed and developed mobile applications for Blackberry handhelds

Mobinex Middle East and Africa, R&D Center İstanbul, summer 2005

Designed and developed mobile applications

TECHNICAL SKILLS *Programming Languages: Java, MATLAB, Latex, C, C++, Prolog, PHP, MySQL*

Other: Eclipse, Netbeans IDE, XCode, SVN, Tomcat, Sun Application Server, Glassfish

EXTRACURRICULAR *Member of Student Representatives Assembly, Boğaziçi University, 2005-2006*

Traveling, table tennis