

**CAP 6675
Fall 2012
Papers schedule**

<u>Due Date</u>	<u>Papers</u>	<u>Presenters</u>
9/4	Herbert A. Simon (1962), The Architecture of Complexity, <i>Proceedings of the American Philosophical Society</i> , 106 (6) 467-482	Lisa Soros
	Yaneer Bar-Yam (2003). Chapter 0: Overview: The Dynamics of Complex Systems -- Examples, Questions, Methods, and Concepts. <i>Dynamics of Complex Systems</i> . Westview Press.	Taranjeet Bhatia
9/6	Stephen Wolfram (1983). Statistical mechanics of cellular automata. <i>Reviews of Modern Physics</i> , 55, 601-644.	Alam Abbas Syed
	Martin Gardner (1970). Mathematical games: The fantastic combinations of John Conway's new solitaire game "Life". <i>Scientific American</i> , 223: 120-123.	Miguel Becerra
9/11	Melanie Mitchell, Peter T. Hraber, and James P. Crutchfield (1993). Revisiting the edge of chaos: Evolving cellular automata to perform computations. <i>Complex Systems</i> , 7, 89-130.	Charles Snyder
	Robert Axelrod (1980). More effective choice in the Prisoner's Dilemma. <i>Journal of Conflict Resolution</i> , 24:3, 379-403.	John Edison
9/13	Joshua M. Epstein (2002). Modeling civil violence: An agent-based computational approach, <i>Proceedings of the National Academy of Sciences of the United States of America</i> , vol. 99, May 14, p. 7243-7250.	Yazen Ghannam
	Jae-Woo Kim and Robert A. Hanneman (2011), A Computational Model of Worker Protest, <i>Journal of Artificial Societies and Social Simulation</i> 14 (3) 1	David Gross
9/25	Robert Axelrod (2006), Agent-Based Modeling as a Bridge Between Disciplines, <i>Handbook of Computational Economics: Agent-Based Computational Economics</i> , Volume 2, Eds. L Tesfatsion and K. Judd, 1565-1584	
	Joshua M. Epstein (2006), Generative Social Science: Studies in Agent-Based Computational Modeling, Chapter 1, pp. 4-46	
10/2	D. Challet and Y. C. Zhang (1997). Emergence of cooperation and organization in an evolutionary game. <i>Physica A</i> , 246, 407-418.	Vera Kazakova
	Robert L. Axtell (2002), Non-Cooperative Dynamics of Multi-Agent Teams, <i>In Proc. of the International Conference on Autonomous Agents and Multi-Agent Systems</i> .	Justin Pugh

- 10/18 Farmer, J. Dooyne and Geanakoplos, John (2009). The virtues and vices of equilibrium and the future of financial economics, *Complexity*, 14 (3) 11-38
Jun Ding
- W. Brian Arthur (2006), Out-of-Equilibrium Economics and Agent-Based Modeling, In *Handbook of Computational Economics: Agent-Based Computational Economics*, Volume 2, Eds. L Tesfatsion and K. Judd, 1551-1563
Zachary Chenaille
- 10/25 Gianfranco Giulioni (2011). The product innovation process and GDP dynamics, *Journal of Evolutionary Economics* (2011) 21:595–618
- Zahra Kodia, Lamjed Ben Said, and Khaled Ghedira (2010). Stylized Facts Study through a Multi-Agent Based Simulation of an Artificial Stock Market, In M. LiCalzi et al. (eds.), *Progress in Artificial Economics*
- 11/1 Albert-Laszlo Barabasi and Reka Albert (1999). Emergence of scaling in random networks. *Science*, 286, 509-512.
Michael Gabilondo
- Robert Axtell (2001). Zipf Distribution of U.S. Firm Sizes, *Science*, 293 1818-1819
- 11/8 A. M. Turing (1952) The Chemical Basis of Morphogenesis, *Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences*, Vol. 237, No. 641, pp. 37-72.
Fan Wu
- Stuart A. Kauffman (1994), Whispers From Carnot: The Origins of Order and Principles of Adaptation in Complex Nonequilibrium Systems, In *Complexity: Methaphors, Models, and Reality*, Edited by G. Cowan, D. Pines and D. Meltzer, pp. 83-136 Addison-Wesley.