

Learning

Rudolf Kerschbamer

Overview:

SOBEL, J. (2000), "Economists' Models of Learning", *Journal of Economic Theory* 94, 241-261.

MARIMON, R. (1997), "Learning from Learning in Economics", in D. Kreps and K. Wallis, Eds., "Advances in Economics and Econometrics", Cambridge University Press, Cambridge, UK, 278-315

COLISK, J. (1996), "Why Bounded Rationality", *Journal of Economic Literature* 34, 669-700

GALE, D. (1996), "What Have We Learned from Social Learning?" *European Economic Review* 40, 617-628.

FUDENBERG, D. and D. LEVINE (1998), "Learning in Games", *European Economic Review* 42, 631-639

KANDORI, M. (1997), "Evolutionary Game Theory in Economics", in D. Kreps and K. Wallis, Eds., "Advances in Economics and Econometrics", Cambridge University Press, Cambridge, UK, 243-27

BÖRGERS, T. (1996), "On the Relevance of Learning and Evolution to Economic Theorie", *Economic Journal* 106, 1374-1385

HOFBAUER, J. and K. SIGMUND (2003), "Evolutionary Game Dynamics", *Bulletin of the American Mathematical Society* 40, 479-519

VAN DAMME, E. (1994), "Evolutionary Game Theory", *European Economic Review* 38, 847-858

BINMORE, K. and L. SAMUELSON (1994), "Drift", *European Economic Review* 38, 859-867

WEIBULL, J. (1994), "The 'as if' Approach to Game Theory: Three Positive Results and Four Obstacles", *European Economic Review* 38, 868-881

Social/Observational Learning:

BANERJEE, A and D. FUDENBERG (2004), "Word-of-Mouth Learning," *Games and Economic Behavior* 46, pp. 1-22

ELLISON, G. and D. FUDENBERG (1995), "Word-of-Mouth Communication and Social Learning", *Quarterly Journal of Economics* 110, 93-125.

AVERY, C. and P. ZEMSKY (1998) "Multidimensional Uncertainty and Herd Behavior in Financial Markets", *American Economic Review* 88, 724-748

SMITH, L. and P. SORENSEN (2000) "Pathological Outcomes of Observational Learning", *Econometrica* 68, 371-398

Learning in Games:

1) Evolutionary Dynamics

BINMORE, K. and L. SAMUELSON (1992), "Evolutionary Stability in Repeated Games Played by Finite Automata", *Journal of Economic Theory* 57, 278-305.

ROBSON, A. (1990), "Efficiency in Evolutionary Games: Darwin, Nash, and the Secret Handshake", *Journal of Theoretical Biology* 144, 379-396.

KANDORI, M., G. MAILATH, and R. ROB (1993), "Learning to Play Equilibria in Games with Stochastic Perturbations", *Econometrica* 61, 29-56.

YOUNG, P. (1993), "The Evolution of Conventions", *Econometrica* 61, 57-84.

ELLISON, G. (2000), "Basins of Attraction, Long-Run Stochastic Stability, and the Speed of Step-by-Step Evolution", *Review of Economic Studies* 67, pp.17-45.

2) Adaptive Learning Models

FOSTER, D. and P. YOUNG (1998), "On the Nonconvergence of Fictitious Play in Coordination Games", *Games and Economic Behavior* 25, 79-96.

FUDENBERG, D. and D. KREPS (1993), "Learning Mixed Equilibria", *Games and Economic Behavior* 5, 320-367.

FUDENBERG, D. and D. KREPS (1995), "Learning in Extensive-Form Games, I: Self-Confirming Equilibria", *Games and Economic Behavior* 8, 20-55.

MILGROM, P. and J. ROBERTS (1991), "Adaptive and Sophisticated Learning in Normal Form Games", *Games and Economic Behavior* 3, 82-101.

3) Sophisticated Learning Models: Bayesian Priors on Opponent's Strategies

KALAI, E. and E. LEHRER (1993), "Rational Learning Leads to Nash Equilibrium", *Econometrica* 61, 1019-1045.

NACHBAR, J. (1997), "Prediction, Optimization, and Rational Learning in Games", *Econometrica* 65, 275-309.

4) Other 'Learning-in-Games' Models

McKELVEY, R. and T. PALFREY (1995), "Quantal Response Equilibria for Normal Form Games," *Games and Economic Behavior* 10, 6-38.

CAMERER, C. and T. HO (1999), "Experience Weighted Attraction Learning in Normal Form Games", *Econometrica* 67, 827-873

CAMERER, C., T. HO and J. CHONG (2002), "Sophisticated EWA Learning and Strategic Teaching in Repeated Games", *Journal of Economic Theory* 104, 137-188.

CAMERER, C., T. HO and J. CHONG (2003), "Models of Thinking, Learning and Teaching Games", *American Economic Review* 93, 192-195.

STAHL, D. and P. WILSON (1995), "On Players' Models of Other Players – Theory and Experimental Evidence", *Games and Economic Behavior* 10, 213-154.

CAMERER, C., T. HO and J. CHONG (2004), "A Cognitive Hierarchy Model of Games", *Quarterly Journal of Economics* 119, 861-898

HOPKINS, E. (2002), "Two Competing Models of How People Learn in Games", *Econometrica* 70, 2141-2166.

BLUME, L. (2003), "How Noise Matters", *Games and Economic Behavior* 44, 251-271.

BÖRGERS, T., A. MORALES and R. SARIN (2004) "Expedient and Monotone Learning Rules", *Econometrica* 72, 383-405.

- und zwei "Klassiker" (und daher event. nur hist. interessant):

ROTH, A. and I. EREV (1995), "Learning in Extensive-Form Games: Experimental Data and Simple Dynamic Models in the Intermediate Term", *Games and Economic Behavior* 8, 164-212.

SELTEN, R. and R. STOECKER (1986), "End Behavior in Sequences of Finite Prisoners Dilemma Supergames: A Learning Theory Approach", *Journal of Economic Behavior and Organization* 7, 47-70.

Evidence:

EREV, I. and A. ROTH (1998), "Predicting How People Play Games: Reinforcement Learning in Experimental Games with Unique, Mixed Strategy Equilibria", *American Economic Review* 88, 848-881.

MOOKERJEE, D. and B. SOPHER (1997), "Learning and Decision Costs in Experimental Constant-Sum Games", *Games and Economic Behavior* 19, 97- 132.

SLONIM, R. and A. ROTH (1998) "Learning in High Stakes Ultimatum Games: An Experiment in the Slovak Republic", *Econometrica* 66, 569-596.

GALE, J., K. BINMORE, and L. SAMUELSON (1995), "Learning to be Imperfect: The Ultimatum Game", *Games and Economic Behavior* 8, 56-90.

CHEUNG, Y. and D. FRIEDMAN (1997), "Individual Learning in Normal Form Games: Some Laboratory Results", *Games and Economic Behavior* 19, 46-76.

RAPOPORT, A. and I. EREV (1998), "Coordination, Magic, and Reinforcement Learning in a Market Entry Game", *Games and Economic Behavior* 23, 146-175.

