

AGENT BASED MODELING

This is a partial listing of Agent Based Modeling (ABM) related publications that appeared between 2000 and 2007.

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The publications are grouped by general themes (health; environment/natural resources; social sciences; transportation; economics/urban economics; methods). Note that publications can appear multiple times depending on substantive and methodological fit.

General Social Science (*including software – see also statistical and methodological issues section below*)

Batty, M. (2005). Agents, cells, and cities: new representational models for simulating multiscale urban dynamics. *Environment and Planning A*, 37(8), 1373-1394.

Bruun, C. (Ed.). (2006). *Advances in artificial economics: the economy as a complex dynamic system*. Berlin: Springer.

Deutsch, S., Diller, D. E., Benyo, B., & Feinerman, L. (2005). The Simulation Environment for the AMBR Experiments. In K. A. Gluck & R. W. Pew (Eds.), *Modeling human behavior with integrated cognitive architectures: Comparison, evaluation, and validation*. (pp. 45-60). Mahwah, NJ, US: Lawrence Erlbaum Associates Publishers.

Eggleston, R. G., McCreight, K. L., & Young, M. J. (2005). Distributed Cognition and Situated Behavior. In K. A. Gluck & R. W. Pew (Eds.), *Modeling human behavior with integrated cognitive architectures: Comparison, evaluation, and validation*. (pp. 177-235). Mahwah, NJ, US: Lawrence Erlbaum Associates Publishers.

Elliott, E., & Kiel, L. D. (2004). Agent-Based Modeling in the Social and Behavioral Sciences. *Nonlinear Dynamics, Psychology, and Life Sciences*, 8(2), 121-130.

Gilbert, G. N. (2008). *Agent-based models*. Thousand Oaks, Calif.: Sage Publications.

Henrickson, L., & McKelvey, B. (2002). Foundations of "new" social science: Institutional legitimacy from philosophy, complexity science, postmodernism, and agent-based modeling. *Proceedings of the National Academy of Sciences of the United States of America*, 99, 7288-7295.

Kohler, T. A., & Gumerman, G. J. (Eds.). (2000). Dynamics in human and primate societies : agent-based modeling of social and spatial processes. New York: Oxford University Press.

Luna, F., & Stefansson, B. (2000). Economic simulations in Swarm : agent-based modelling and object oriented programming. Boston: Kluwer Academic.

Matthews, R. (2006). The People and Landscape Model (PALM): Towards full integration of human decision-making and biophysical simulation models. *Ecological Modelling*, 194(4), 329-343.

O'Sullivan, D., & Haklay, M. (2000). Agent-based models and individualism: is the world agent-based? *Environment and Planning A*, 32(8), 1409-1425.

Otter, H. S. (2000). Complex adaptive land use systems: an interdisciplinary approach with agent-based models. Delft: Eburon.

Robertson, D. A. (2005). Agent-Based Modeling Toolkits: NetLogo, RePast, and Swarm. *Academy of Management Learning & Education*, 4(4), 525.

Sato, Y. (2006). Self-Organization and Agent-Based Modeling. *Riron to Hoho Sociological Theory and Methods*, 21(1), 1-10.

Szilagyi, M. N., & Szilagyi, Z. C. (2000). A tool for simulated social experiments. *Simulation*, 74(1), 4-10.

Sociology/Criminology/Demography

Benard, S., & Willer, R. (2007). A wealth and status-based model of residential segregation. *Journal of Mathematical Sociology*, 31(2), 149-174.

Cederman, L.-E. (2005). Computational Models of Social Forms: Advancing Generative Process Theory. *American Journal of Sociology*, 110(4), 864-893.

Chen, K., Irwin, E. G., Jayaprakash, C., & Warren, K. (2005). The Emergence of Racial Segregation in an Agent-Based Model of Residential Location: The Role of Competing Preferences. *Computational and Mathematical Organization Theory*, 11(4), 333.

Clark, W. A. V. (2006). Ethnic Preferences and Residential Segregation: A Commentary on Outcomes from Agent-Based Modeling. *The Journal of Mathematical Sociology*, 30(3-4), 319-326.

Espindola, A. L., Silveira, J. J., & Penna, T. J. P. (2006). A Harris-Todaro agent-based model to rural-urban migration. *Brazilian Journal of Physics*, 36(3A), 603-609.

Fossett, M. (2006). Ethnic preferences, social distance dynamics, and residential segregation: Theoretical explorations using simulation analysis. *Journal of Mathematical Sociology*, 30(3-4), 185-274.

Fossett, M. (2006). Including Preference and Social Distance Dynamics in Multi-Factor Theories of Segregation. *The Journal of Mathematical Sociology*, 30(3-4), 289-298.

Fossett, M., & Waren, W. (2005). Overlooked Implications of Ethnic Preferences for Residential Segregation in Agent-Based Models. *Urban Studies*, 42(11), 1893-1917.

Fowler, J. H., & Smirnov, O. (2005). Dynamic Parties and Social Turnout: An Agent-Based Model. *American Journal of Sociology*, 110(4), 1070-1094.

Gilbert, N., & Abbott, A. (2005). Introduction. *American Journal of Sociology*, 110(4), 859-863.

Gorman, D. M., Mezic, J., Mezic, I., & Gruenewald, P. J. (2006). Agent-based modeling of drinking behavior: A preliminary model and potential applications to theory and practice. *American Journal of Public Health*, 96(11), 2055-2060.

Groff, E. R. (2007). Simulation for theory testing and experimentation: An example using routine activity theory and street robbery. *Journal of Quantitative Criminology*, 23(2), 75-103.

Gruenewald, P. J. (2007). The spatial ecology of alcohol problems: niche theory and assortative drinking. *Addiction*, 102(6), 870-878.

Jones, G. T., Mezic, I., Gruenewald, P. J., Gorman, D. M., & Mezic, J. (2007). Agent-Based Modeling: Use with Necessary Caution. *American Journal of Public Health*, 97(5), 780.

Macy, M. W., & van de Rijt, A. (2006). Ethnic preferences and residential segregation: Theoretical explorations beyond Detroit. *Journal of Mathematical Sociology*, 30(3-4), 275-288.

Macy, M. W., & Willer, R. (2002). From Factors to Actors: Computational Sociology and Agent-Based Modeling. *Annual Review of Sociology*, 28, 143-166.

Moss, S., & Edmonds, B. (2005). Sociology and Simulation: Statistical and Qualitative Cross-Validation. *American Journal of Sociology*, 110(4), 1095-1131.

Makowsky, M. (2006). An Agent-Based Model of Mortality Shocks, Intergenerational Effects, and Urban Crime. *Journal of Artificial Societies and Social Simulation*, 9(2).

Todd, P. M., Billari, F. C., & Simao, J. (2005). Aggregate Age-at-Marriage Patterns from Individual Mate-Search Heuristics. *Demography*, 42(3), 559-574.

Torrens, P. M., & Nara, A. (2007). Modeling gentrification dynamics: A hybrid approach. *Computers Environment and Urban Systems*, 31(3), 337-361.

Urban (and Land Use – see also Environmental Studies below)

Andersson, C., Frenken, K., & Hcllervik, A. (2006). A complex network approach to urban growth. *Environment and Planning A*, 38(10), 1941-1964.

Batty, M. (2005). Agents, cells, and cities: new representational models for simulating multiscale urban dynamics. *Environment and Planning A*, 37(8), 1373-1394.

Bishop, I. D., Wherrett, J. R., & Miller, D. R. (2000). Using image depth variables as predictors of visual quality. *Environment and Planning B-Planning & Design*, 27(6), 865-875.

Brown, D. G., & Robinson, D. T. (2006). Effects of heterogeneity in residential preferences on an agent-based model of urban sprawl. *Ecology and Society*, 11(1).

Brown, D. G., Page, S., Riolo, R., Zellner, M., & Rand, W. (2005). Path dependence and the validation of agent-based spatial models of land use. *International Journal of Geographical Information Science*, 19(2), 153-174.

Castella, J. C., & Verburg, P. H. (2007). Combination of process-oriented and pattern-oriented models of land-use change in a mountain area of Vietnam. *Ecological Modelling*, 202(3-4), 410-420.

Curtis, N. J., & Dortmans, P. J. (2004). A Dynamic Conceptual Model to Explore Technology-Based Perturbations to a Complex System: the Land Force*. *Asia - Pacific Journal of Operational Research*, 21(4), 463.

Doran, J. (2001). Intervening to Achieve Co-Operative Ecosystem Management: Towards an Agent Based Model. *Journal of Artificial Societies and Social Simulation*, 4(2).

Fernandez, L. E., Brown, D. G., Marans, R. W., & Nassauer, J. I. (2005). Characterizing location preferences in an exurban population: implications for agent-based modeling. *Environment and Planning B-Planning & Design*, 32(6), 799-820.

Johnson, D. E. A. (2004). A Call for Dynamic Hazard Assessment. *International Journal of Mass Emergencies and Disasters*, 22(3), 9.

Johnson, D. E. A. (2006). Dynamic hazard assessment: Using agent-based modeling of complex, dynamic hazards for hazard assessment. Unpublished Dissertation, University of Pittsburgh.

Laine, T., & Busemeyer, J. (2004). Comparing agent-based learning models of land-use decision making. In M. Lovett, C. Schunn, C. Lebiere & P. Munro (Eds.), *Proceedings of the Sixth International Conference on Cognitive Modeling: ICCCM 2004: Integrating Models*. (pp. 142-147). Mahwah, NJ, US: Lawrence Erlbaum Associates Publishers.

Li, X., & Liu, X. (2007). Defining agents' behaviors to simulate complex residential development using multicriteria evaluation. *J Environmental Management*.

Ligmann-Zielinska, A., & Jankowski, P. (2007). Agent-based models as laboratories for spatially explicit planning policies. *Environment and Planning B-Planning & Design*, 34(2), 316-335.

Mansury, Y., & Gulyas, L. (2007). The emergence of Zipf's Law in a system of cities: An agent-based simulation approach. *Journal of Economic Dynamics & Control*, 31(7), 2438-2460.

Mohring, M., & Troitzsch, K. G. (2001). Lake Anderson Revisited by Agents. *Journal of Artificial Societies and Social Simulation*, 4(3).

Polhill, J. G., Pignotti, E., Gotts, N. M., Edwards, P., & Preece, A. (2007). A Semantic Grid Service for Experimentation with an Agent-Based Model of Land-Use Change. *Journal of Artificial Societies and Social Simulation*, 10(2).

Savage, M., Sawhill, B., & Askenazi, M. (2000). Community dynamics: what happens when we rerun the tape? *J Theor Biol*, 205(4), 515-526.

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Turner, A., & Penn, A. (2002). Encoding natural movement as an agent-based system: an investigation into human pedestrian behaviour in the built environment. *Environment and Planning B*, 29(4), 473-490.

van der Veen, A., & Otter, H. S. (2001). Land use changes in regional economic theory. *Environmental Modeling & Assessment*, 6(2), 145-150.

Yin, L., & Muller, B. (2007). Residential location and the biophysical environment: exurban development agents in a heterogeneous landscape. *Environment and Planning B-Planning & Design*, 34(2), 279-295.

Transportation

Chen, X. W., Meaker, J. W., & Zhan, F. B. (2006). Agent-based modeling and analysis of hurricane evacuation procedures for the Florida Keys. *Natural Hazards*, 38(3), 321-338.

Haklay, M., O'Sullivan, D., Thurstain-Goodwin, M., & Schelhorn, T. (2001). "So go downtown": simulating pedestrian movement in town centres. *Environment and Planning B-Planning & Design*, 28(3), 343-359.

Kerridge, J., Hine, J., & Wigan, M. (2001). Agent-based modelling of pedestrian movements: the questions that need to be asked and answered. *Environment and Planning B-Planning & Design*, 28(3), 327-341.

Schwoon, M. (2006). Simulating the adoption of fuel cell vehicles. *Journal of Evolutionary Economics*, 16(4), 435-472.

Schwoon, M. (2007). A tool to optimize the initial distribution of hydrogen filling stations. *Transportation Research Part D-Transport and Environment*, 12(2), 70-82.

Zou, X., & Levinson, D. (2006). A multi-agent congestion and pricing model. *Transportmetrica*, 2(3), 237-249.

Anthropology and Culture/ Human Behavior

Bednar, J., & Page, S. (2007). Can game(s) theory explain culture? The emergence of cultural behavior within multiple games. *Rationality and Society*, 19(1), 65-97.

Calderon, J. P., & Zarama, R. (2006). How learning affects the evolution of strong reciprocity. *Adaptive Behavior*, 14(3), 211-221.

Cioffi-Revilla, C. (2005). A Canonical Theory of Origins and Development of Social Complexity. *The Journal of Mathematical Sociology*, 29(2), 133-153.

Deadman, P., Robinson, D., Moran, E., & Brondizio, E. (2004). Colonist household decisionmaking and land-use change in the Amazon Rainforest: an agent-based simulation. *Environment and Planning B-Planning & Design*, 31(5), 693-709.

Kuznar, L. A. (2006). High-fidelity computational social science in anthropology - Prospects for developing a comparative framework. *Social Science Computer Review*, 24(1), 15-29.

Pujol, J. M., Flache, A., Delgado, J., & Sanguesa, R. (2005). How can social networks ever become complex? Modelling the emergence of complex networks from local social exchanges. *JASSS-the Journal of Artificial Societies and Social Simulation*, 8(4).

Wilkinson, T. J., Christiansen, J. H., Ur, J., Widell, M., & Altaweel, M. (2007). Urbanization within a Dynamic Environment: Modeling Bronze Age Communities in Upper Mesopotamia. *American Anthropologist*, 109(1), 52-68.

Political Science

Altman, M., & Klass, G. M. (2005). Current research in voting, elections, and technology. *Social Science Computer Review*, 23(3), 269-273.

Bhavnani, R. (2006). Ethnic norms and interethnic violence: Accounting for mass participation in the Rwandan genocide. *Journal of Peace Research*, 43(6), 651-669.

Cederman, L. E., & Gleditsch, K. S. (2004). Conquest and regime change: An evolutionary model of the spread of democracy and peace. *International Studies Quarterly*, 48(3), 603-629.

Clough, E. (2007). Strategic voting under conditions of uncertainty: A re-evaluation of Duverger's law. *British Journal of Political Science*, 37, 313-332.

Fowler, J. H., & Smirnov, O. (2007). *Mandates, parties, and voters: how elections shape the future*. Philadelphia: Temple University Press.

Hammond, R. A., & Axelrod, R. (2006). The evolution of ethnocentrism. *Journal of Conflict Resolution*, 50(6), 926-936.

Harrison, N. E. (Ed.). (2006). Complexity in world politics: concepts and methods of a new paradigm. Albany: State University of New York Press.

Hedstrom, P. (2006). Explaining Social Change: An Analytical Approach. *Papers: Revista de sociologia* (80), 73-95, 2006.

Henrickson, L. (2002). Old Wine in a New Wineskin: College Choice, College Access Using Agent-Based Modeling. *Social Science Computer Review*, 20(4), 400-419.

Kuznar, L. A., & Frederick, W. (2007). Simulating the effect of nepotism on political risk taking and social unrest. *Computational and Mathematical Organization Theory*, 13(1), 29.

Laver, M., & Schilperoord, M. (2007). Spatial models of political competition with endogenous political parties. *Philos Trans R Soc Lond B Biol Sci*.

Lustick, I. (2002). PS-I: A User-Friendly Agent-Based Modeling Platform for Testing Theories of Political Identity and Political Stability. *Journal of Artificial Societies and Social Simulation*, 5(3).

Lustick, I. S. (2000). Agent-Based Modelling of Collective Identity: Testing Constructivist Theory. *Journal of Artificial Societies and Social Simulation*, 3(1).

Mackie, C. J. (2006). EID: A computational model of emergent sociopolitical identity. Unpublished Dissertation, Princeton University.

Murphy, P. (2000). Symmetry, contingency, complexity: Accommodating uncertainty in public relations theory. *Public Relations Review*, 26(4), 447-462.

Rousseau, D., & Van der Veen, A. M. (2005). The emergence of a shared identity - An agent-based computer simulation of idea diffusion. *Journal of Conflict Resolution*, 49(5), 686-712.

Samuelson, D. A. (2005). Agents of Change. *OR-MS Today*, 32(1), 26.

Sato, Y. (Ed.). (2007). Deciphering stratification and inequality : Japan and beyond. Sendai, Japan: Tohoku University.

Walker, B. H., & Janssen, M. A. (2002). Rangelands, pastoralists and governments: interlinked systems of people and nature. *Philos Trans R Soc Lond B Biol Sci*, 357(1421), 719-725.

Environmental Studies

An, L., He, G. M., Liang, Z., & Liu, J. G. (2006). Impacts of demographic and socioeconomic factors on spatio-temporal dynamics of panda habitat. *Biodiversity and Conservation*, 15(8), 2343-2363.

An, L., Linderman, M., Qi, J., Shortridge, A., & Liu, J. (2005). Exploring complexity in a human-environment system: An agent-based spatial model for multidisciplinary and multiscale integration. *Annals of the Association of American Geographers*, 95(1), 54-79.

Bennett, D. A., & Tang, W. (2006). Modelling adaptive, spatially aware, and mobile agents: Elk migration in Yellowstone. *International Journal of Geographical Information Science*, 20(9), 1039-1066.

Evans, T. P., & Kelley, H. (2004). Multi-scale analysis of a household level agent-based model of landcover change. *J Environ Manage*, 72(1-2), 57-72.

Evans, T. P., Sun, W. J., & Kelley, H. (2006). Spatially explicit experiments for the exploration of land-use decision-making dynamics. *International Journal of Geographical Information Science*, 20(9), 1013-1037.

Grimm, V., Revilla, E., Berger, U., Jeltsch, F., & et al. (2005). Pattern-Oriented Modeling of Agent-Based Complex Systems: Lessons from Ecology. *Science*, 310(5750), 987.

Huigen, M. G. A. (2004). First principles of the MameLuke multi-actor modelling framework for land use change, illustrated with a Philippine case study. *Journal of Environmental Management*, 72(1/2), 5.

Huigen, M. G. A., Overmars, K. P., & de Groot, W. T. (2006). Multiactor modeling of settling decisions and behavior in the San Mariano watershed, the Philippines: a first application with the MameLuke framework. *Ecology and Society*, 11(2).

Janssen, M. (Ed.). (2002). Complexity and ecosystem management: the theory and practice of multi-agent systems. Cheltenham, UK ;; Northampton, MA: Edward Elgar Pub.

Janssen, M. A., & Ahn, T. K. (2006). Learning, signaling, and social preferences in public-good games. *Ecology and Society*, 11(2).

Jepsen, M. R., Leisz, S., Rasmussen, K., Jakobsen, J., Moller-Jensen, L., & Christiansen, L. (2006). Agent-based modelling of shifting cultivation field patterns, Vietnam. *International Journal of Geographical Information Science*, 20(9), 1067-1085.

Kraines, S., & Wallace, D. (2006). Applying Agent-based Simulation in Industrial Ecology. *Journal of Industrial Ecology*, 10(1,2), 15.

Matthews, R., & Selman, P. (2006). Landscape as a focus for integrating human and environmental processes. *Journal of Agricultural Economics*, 57(2), 199-212.

Parker, D. C., Berger, T., & Manson, S. M. (2002). Agent-based models of land-use and land-cover change : report and review of an international workshop, October 4-7, 2001, Irvine, California, USA (LUCC report series no. 6): LUCC Focus 1 Office.
<http://www.indiana.edu/%7Eact/focus1/ABM%5FReport6.pdf>

Sengupta, R., Lant, C., Kraft, S., Beaulieu, J., Peterson, W., & Loftus, T. (2005). Modeling enrollment in the Conservation Reserve Program by using agents within spatial decision support systems: an example from southern Illinois. *Environment and Planning B-Planning & Design*, 32(6), 821-834.

Verburg, P. H. (2006). Simulating feedbacks in land use and land cover change models. *Landscape Ecology*, 21(8), 1171-1183.

Agriculture

Happe, K., Balmann, A., & Kellermann, K. (2004). The agricultural policy simulator (AgriPolis) - an agent based model to study structural change in agriculture (version 1.0) (Discussion paper / Institute of Agricultural development in Central and Eastern Europe No. 71). Halle (Saale): IAMO.

Happe, K., Kellermann, K., & Balmann, A. (2006). Agent-based analysis of agricultural policies: an illustration of the agricultural policy simulator AgriPoliS, its adaptation and behavior. *Ecology and Society*, 11(1).

Manson, S. (2006). Land use in the southern Yucatan peninsular region of Mexico: Scenarios of population and institutional change. *Computers Environment and Urban Systems*, 30(3), 230-253.

Manson, S. M. (2005). Agent-based modeling and genetic programming for modeling land change in the Southern Yucatan Peninsular Region of Mexico. *Agriculture Ecosystems & Environment*, 111(1-4), 47-62.

Matthews, R., & Selman, P. (2006). Landscape as a focus for integrating human and environmental processes. *Journal of Agricultural Economics*, 57(2), 199-212.

Schmit, C., & Rounsevell, M. D. A. (2006). Are agricultural land use patterns influenced by farmer imitation? *Agriculture Ecosystems & Environment*, 115(1-4), 113-127.

Economics and Business

Albino, V., Carbonara, N., & Giannoccaro, I. (2007). Supply chain cooperation in industrial districts: A simulation analysis. *European Journal of Operational Research*, 177(1), 261-280.

Alfarano, S., Lux, T., & Wagner, F. (2005). Estimation of Agent-Based Models: The Case of an Asymmetric Herding Model. *Computational Economics*, 26(1), 19.

- Alfarano, S., Lux, T., & Wagner, F. (2006). Estimation of a simple agent-based model of financial markets: An application to Australian stock and foreign exchange data. *Physica A-Statistical Mechanics and Its Applications*, 370(1), 38-42.
- Allen, P. M., & Varga, L. (2006). A co-evolutionary complex systems perspective on information systems. *Journal of Information Technology*, 21(4), 229-238.
- Anosike, A. I., & Zhang, D. Z. (2006). Dynamic reconfiguration and simulation of manufacturing systems using agents. *Journal of Manufacturing Technology Management*, 17(4), 435.
- Araujo, T., & Louca, F. (2007). The geometry of crashes. A measure of the dynamics of stock market crises. *Quantitative Finance*, 7(1), 63-74.
- Bentley, R. A., Lake, M. W., & Shennan, S. J. (2005). Specialisation and wealth inequality in a model of a clustered economic network. *Journal of Archaeological Science*, 32(9), 1346-1356.
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- Black, J. A., & Oliver, R. L. (2005). Proactive Versus Passive Leader Behaviour and Style Influences on the Group Level Context-for-Learning. *Irish Journal of Management*, 26(1), 71.
- Bloomquist, K. M. (2006). A comparison of agent-based models of income tax evasion. *Social Science Computer Review*, 24(4), 411-425.
- Boer, K., Kaymak, U., & Spiering, J. (2007). From discrete-time models to continuous-time, asynchronous modeling of financial markets. *Computational Intelligence*, 23(2), 142-161.
- Boisot, M., MacMillan, I. C., & Han, K. S. (2007). Property rights and information flows: a simulation approach. *Journal of Evolutionary Economics*, 17(1), 63-93.
- Borrelli, F., Ponsiglione, C., Iandoli, L., & Zollo, G. (2005). Inter-organizational learning and collective memory in small firms clusters: an agent-based approach. *Journal of Artificial Societies and Social Simulation*, 8(3).
- Bottazzi, G., Dosi, G., & Rebesco, I. (2005). Institutional architectures and behavioral ecologies in the dynamics of financial markets. *Journal of Mathematical Economics*, 41(1-2), 197-228.
- Bovier, A., Cerny, J., & Hryniv, O. (2006). The Opinion Game: Stock Price Evolution from Microscopic Market Modeling. *International Journal of Theoretical & Applied Finance*, 9(1), 91.

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- Castiglione, F. (2000). Diffusion and aggregation in an agent based model of stock market fluctuations. *International Journal of Modern Physics C*, 11(5), 865-879.
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- Challet, D., & Galla, T. (2005). Price return autocorrelation and predictability in agent-based models of financial markets. *Quantitative Finance*, 5(6), 569-576.
- Chen, S. H., & Liao, C. C. (2005). Agent-based computational modeling of the stock price-volume relation. *Information Sciences*, 170(1), 75-100.
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- Deissenberg, C., & Iori, G. (2006). Introduction. *Journal of Economic Behavior & Organization*, 61(4), 521-524.

- Delre, S. A., Jager, W., & Janssen, M. A. (2007). Diffusion dynamics in small-world networks with heterogeneous consumers. *Computational and Mathematical Organization Theory*, 13(2), 185.
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