

## List of Publications, Martin Neumann PhD.

### Books:

- 1) **Neumann, M.** (2002). *Die Messung des Unbestimmten: Die Geschichte der Konstruktion und Dekonstruktion eines Gegenstandsbereiches der Wahrscheinlichkeitstheorie*. Frankfurt a. M., Hänsl-Hohenhausen (2002).  
Review: [http://www.michael-funken.de/information-philosophie/rezensionen/neumann\\_unbestimmte.html](http://www.michael-funken.de/information-philosophie/rezensionen/neumann_unbestimmte.html)

### Editing

- 2) Voinea, C., **Neumann, M.** (forthcoming). Special issue on Political Culture Research Methodologies. *Quality & Quantity*.
- 3) Lorenz, J., **Neumann, M.** (2018). Special issue on opinion dynamics and collective decisions. *Advances in complex systems* 21(6/7).
- 4) **Neumann, M.**, Elsenbroich, C. (2017). Special issue on societal dimensions of organized crime. *Trends in organized crime* 20(1-2).
- 5) Secchi, D., **Neumann, M.** (2015). *Agent-based simulation of organizational behavior. New frontiers of social science research*. New York: Springer.  
Review: <http://jasss.soc.surrey.ac.uk/19/4/reviews/1.html>

### Journal Articles:

- 6) **Voinea, C.**, Neumann, M. (online first). Political Culture: A Theory in Search for Methodology. An Editorial. *Quality & Quantity*
- 7) **Lorenz, J.**, Neumann, M. (2018). Opinion dynamics and collective decisions. *Advances in complex systems* 21(6/7): 1-9.
- 8) **Neumann, M.**, Lotzmann, U. (2017). Simulation for interpretation. A methodology for growing virtual cultures. *Journal for Artificial Societies and Social Simulation* 20(3).
- 9) **Neumann, M.**, Lotzmann, U., Troitzsch, K.G. (2017) Mafia war. Simulating conflict escalation in criminal organizations. *Trends in Organized Crime* 20(1-2): 139–178.
- 10) **Neumann, M.** and Elsenbroich, C. (2017) Introduction: The societal dimensions of organized crime. *Trends in Organized Crime* 20(1-2): 1-15.
- 11) Nardin, G., Andrighetto, G. Conte, R., Székely, Á. Anzola, D., Elsenbroich, C., Lotzmann, U., **Neumann, M.**, Punzo, V., Troitzsch, K.G. (2016). Simulating protection rackets: a case study of the Sicilian Mafia. *Autonomous Agents and Multi-Agent Systems* 30/6: 1117–1147. 1-31
- 12) **Neumann, M.**, Sartor, N. (2016). A semantic network of laundering drug money. *Journal of Tax Administration* 2/1: 73 – 94
- 13) **Neumann, M.**, Lotzmann, U. (2016). Simulation and Interpretation: a research note on utilizing qualitative research in agent-based simulation. *International journal of swarm intelligence and evolutionary computing* 5/1.
- 14) **Neumann, M.** (2015). Grounded Simulation. *Journal of Artificial Societies and Social Simulation* 18(1).
- 15) **Neumann, M.** (2014). The Escalation of Ethnonationalist Radicalization: Simulating the Effectiveness of Nationalist Ideologies. *Social science computer review* 32/3: 312- 333.
- 16) **Neumann, M.** (2014). Time-scales of socio-cultural dynamics. *Cybernetics and human knowing* 21/1-2: 66-79.
- 17) **Neumann, M.**, Srbljinovic, A., Schatten, M. (2014). Trust me, I know what I'm doing. *European Quarterly of Political Attitudes and Mentalities* 3/2: 18 – 33
- 18) **Neumann, M.**, Srbljinovic, A. (2013). Essays on political actors and attitudes: Do they constitute distributed reflexivity? Part III: Long-Term Dynamics Towards Deliberative Democracy. *European Quarterly of Political Attitudes and Mentalities* 2/4: 55 – 63.

- 19) **Neumann, M.**, Srbljonivic, A. (2013). Essays on political actors and attitudes: Do they constitute distributed reflexivity? Part II: A Dynamical Typology of Rationality. *European Quarterly of Political Attitudes and Mentalities* 2/3: 1– 9.
- 20) **Neumann, M.**, Srbljonivic, A. (2013). Essays on political actors and attitudes: Do they constitute distributed reflexivity? Part I: Median voter theorem vs. competence fields. *European Quarterly of Political Attitudes and Mentalities* 2/2: 9 – 17.
- 21) **Neumann, M.** (2012). The cognitive legacy of norm simulation. *Artificial Intelligence and Law* 20/4: 339 - 357.
- 22) **Neumann, M.** (2012). Modelling the securization of national identities. *INDECS - Journal for Interdisciplinary Description of Complex Systems* 10/1 (2012) pp. 28 – 49.
- 23) **Neumann, M.**, Heinke, E., Braun, A., Srbljinovic, A., Saqalli, M. (2011). Challenges in modelling social conflicts: Grappling with polysemy. *Journal for Artificial Societies and Social Simulation* 14/3.
- 24) **Neumann, M.** (2010). Norm Internalisation in Human and Artificial Intelligence. *Journal of Artificial Societies and Social Simulation* 13/1.
- 25) **Neumann, M.** (2008). Homo Socionicus: a case study of normative agents. *Journal of Artificial Societies and Social Simulation* 11/4.
- 26) **Neumann, M.** (2007). Complexity of Social Stability: A Model-to-Model Analysis of Yugoslavia's decline. *INDECS – Journal for Interdisciplinary Description of Complex Systems* 5/2: 92 – 111.

**Book Chapters:**

- 27) **Neumann, M.**, van Putten, C. (forthcoming). Growing criminal culture. Narrative simulation of conflicts in a criminal group. In: Derzsy, N. (ed.). *Understanding crime through science. Interdisciplinary analysis and modeling of criminal activities*. New York: Springer.
- 28) **Neumann, M.** (2019). The ontological science of collective terms: Johannes von Kries in social statistics. In: Wagner, G. (ed.). *The legacy of Johannes von Kries. An interdisciplinary survey*. Wiesbaden: Harrassowitz Verlag, pp. 101-117.
- 29) Anzola, D., **Neumann, M.**, Möhring, M., Troitzsch, K.G. (2017). National Mafia-Type Organisations: Local Threat, Global Reach. In: C. Elsenbroich, N. Gilbert, D. Anzola (eds.). *Societal Dimensions of Organized Crime*. New York: Springer, pp. 9-23.
- 30) **Neumann, M.**, Lotzmann, U. (2017). Text data and computational qualitative analysis. In: C. Elsenbroich, N. Gilbert, D. Anzola (eds.). *Societal Dimensions of Organized Crime*. New York: Springer, pp. 155-176.
- 31) Lotzmann, U., **Neumann, M.** (2017). A simulation model of intra-organisational conflict regulation in the crime world. In: C. Elsenbroich, N. Gilbert, D. Anzola (eds.). *Societal Dimensions of Organized Crime*. New York: Springer, pp. 177-213.
- 32) **Neumann, M.**, Frazzica, G., Punzo, V. (2017). Mechanisms of the embedding of extortion racket systems. In: A. A. Stachowicz-Stanusch, G. Mangia, A. Caldarelli, W. Amann (Eds.). *Dark side of Organization and social irresponsibility: Tool and theoretical insights*. Charlotte: Information age publishing, pp. 259-286.
- 33) **Neumann, M.**, Lotzmann, U. (2016). Eine Herrschaft des Terrors: Gewalteskalation in illegalen Organisationen. In: C. Equit, A. Grönemeyer and O. Schmidt (Eds.) *Situationen der Gewalt*. Wiesbaden, Beltz, pp. 278 – 302.
- 34) **Neumann, M.**, Secchi, D. (2015). Exploring the new frontier: Computational studies of organizational behavior. In: D. Secchi, M. Neumann (Eds.). *Agent-based simulation of organizational behavior. New frontiers of social science research* . New York: Springer, pp. 1-16.
- 35) **Neumann, M.**, Cowley, S. (2015). Modelling social agency using diachronic cognition: learning from the Mafia. In: D. Secchi, M. Neumann (Eds.) *Agent-based simulation of organizational behavior. New frontiers of social science research*. New York: Springer, pp. 289-310.

- 36) **Neumann, M.** (2014). How are norms brought about? A state of the Art. In: R. Conte, G. Andrighetto, M. Campenni (Eds.). *Minding Norms: Mechanisms and dynamics of social order in agent societies*. Oxford: Oxford University Press, pp. 50 – 66.
- 37) **Neumann, M.** (2014). An Ontology of extortion racket systems. In: C. Voinea, B. Todosijevic, G. Boella (Eds.). *Political Attitudes and Mentalities: Eastern European Political Cultures. Modelling Studies*. Bucharest: Ars Docendi, pp. 123 – 133.
- 38) **Neumann, M.** (2013). Grounded Simulation. In: Kaminski, B., Koloch, G. (Eds.) *Advances in Social Simulation. Proceedings of the 9th Conference of the ESSA*. New York: Springer, Advances in Intelligent systems and computing 229, pp. 352 – 359.
- 39) **Neumann, M.,** Cowley, S. (2013). Human agency and the resources of reason. In: S. Cowley, F. Vallee-Tourangeau, F. (Eds.). *Cognition beyond the brain*. New York: Springer, pp. 13 – 30.
- 40) Amblard, F., Geller, A., **Neumann, M.,** Srbljinović, A., Wijermans, N. (2010). Analyzing Social Conflict via Computational Social Simulation: A Review of Approaches. In: K. Martínás, D. Matika, A. Srbljinović (Eds.) *Complex Societal Dynamics - Security Challenges and Opportunities*. Amsterdam: IOS Press, pp. 126 – 141.
- 41) **Neumann, M.** (2010). Sensitivity and Significance: how to analyze the complexity of conflict dynamics? In: K. Martínás, D. Matika, A. Srbljinović (Eds.). *Complex Societal Dynamics - Security Challenges and Opportunities*. Amsterdam: IOS Press, pp. 158 – 174.
- 42) **Neumann, M.** (2010). A Classification of normative Architectures. In: K. Takadama, C. Cioffi-Revilla, G. Deffuant (Eds.) *Simulating Interacting Agents and Social Phenomena*. New York: Springer, pp. 3 – 18.
- 43) **Neumann, M.** (2009). Measuring the Uncertain: a concept of objective single case probabilities. In: Loewe, B. et al. (Eds.) *Foundations of the Formal Sciences VI: Reasoning about Probabilities and Probabilistic Reasoning*. London: KCL Press (2009) pp. 189 – 215.
- 44) **Neumann, M.** (2009). Emergence as an explanatory principle in Artificial Societies. In: Squazzoni, F. (Ed.) *Epistemological Aspects of Computer Simulation in the Social Sciences. EPOS 2006 Invited and Selected Papers*, LNAI 5466, Berlin, Springer (2009) pp. 69 – 88.
- 45) Review: <http://jasss.soc.surrey.ac.uk/12/4/reviews/wilson.html>
- 46) **Neumann, M.** (2006). A formal bridge between epistemic cultures. In: B. Loewe (Ed.) *Foundations of the Formal Sciences IV: The History of the Concept of the Formal Sciences*, Studies in Logic Vol. 3. London: KCL Press (2006) pp. 169 – 182.

#### **Handbook chapters**

- 47) **Neumann, M.,** Lorenz, J. (2019). Simulation in der Politikwissenschaft. In: Wagemann, C., Goerres, A., Siewert, M. (eds.). *Handbuch der Methoden der Politikwissenschaft*. Wiesbaden: Springer VS, pp. 1 – 24.
- 48) **Neumann, M.,** Troitzsch, K.G. (2019). Social Simulation. In: Atkinson. P. (ed.). *The SAGE encyclopedia of research methods*. Newbury Park: Sage, doi: 10.4135/9781526421036764890.
- 49) Verhagen, H., **Neumann, M.,** Singh, M. (2019). Normative multiagent systems: Foundations and history. In: Verhagen, H., Singh, M., Governatory, G. (Eds.). *Handbook on normative multiagent systems*. Open University Press, pp. 3-25.
- 50) **Neumann, M.,** (2013). Social Constraints. In: B. Edmonds, R. Meyer (Eds.). *Handbook on Simulating Social Complexity*. New York: Springer, pp. 335 – 364 (2<sup>nd</sup> Ed. 2017 pp. 411– 442).
- 51) **Neumann, M.** (2010). An epistemological gap in simulation technologies and the science of society. In: E. Blanchard, D. Allard (Eds.). *Handbook of Research on Culturally-Aware Information Technology: Perspectives and Models*. Hershey: IGI Publishers, pp. 114 – 135.

#### **Peer Reviewed Conference Proceedings:**

- 52) **Neumann, M.** Lotzmann, U. (2016). Growing criminal culture. A framework for simulation in interpretive research. In: *Proceedings of the Social Simulation Conference SSC 2016*, Rome.

- 53) **Neumann, M.**, Lotzmann, U. (2016). Sanction recognition: A simulation model of extended normative reasoning. In: *Proceedings of the COIN/NorMAS Workshop*, The Hague.
- 54) Lotzmann, U., **Neumann, M.**, Moehring, M. (2015). From Text to agents: process of developing evidence based simulation models. In: *Proceedings of the 29th European Conference on Modelling and Simulation*, Varna.
- 55) Balke, T., Mahmoud, S., **Neumann, M.**, Verhagen, H. (2014). Analysing the Electrical Patient Recruiting Agent system using the WIT trinity. In: *Proceedings of the European Conference on Social Intelligence (ECSI 2014)*, CEUR proceedings series.
- 56) **Neumann, M.**, Lotzmann, U. (2014). Modelling the collapse of a criminal network. In: *Proceedings of the 28th European Conference on Modelling and Simulation*, Brescia.
- 57) **Neumann, M.** (2013). Simulation of ethnic conflicts in Yugoslavia. In: *EEW-PAM Conference Proceedings, 1st Eastern European Exploratory Workshop on Political Attitudes and Mentalities*, Bucharest.
- 58) Markisic, S., **Neumann, M.**, Lotzmann, U. (2012): Simulation of ethnic conflicts in former Yugoslavia. In: Troitzsch, K.G., Möhring, M., Lotzmann, U. (Eds.). *26th European Simulation and Modelling Conference 2012*, Koblenz.
- 59) **Neumann, M.** (2012). Securizating the nation: Simulating the dynamics at the case of Yugoslavia. In: *Proceedings of the 5th IMA international conference on influence and conflict*, Sandhurst.
- 60) **Neumann, M.** (2010). Pathways to ethnic cleansing. In: Ernst, A., Kuhn, S., et al. (Eds.). *Proceedings of the 3rd World Congress on Social Simulation WCSS2010*. Kassel, Germany: Center for Environmental Systems Research, University of Kassel.
- 61) **Neumann, M.** (2009). Dissecting the BOID Perspective on Norms. In: *Proceedings of the 6th European Social Simulation Association Conference*, Surrey.
- 62) Amblard, F., Geller, A., **Neumann, M.**, Srbljinović, A., Wijermans, N. (2009). A Meta-Analysis of Social Conflict: The Social Simulation Comprehensive Approach. In: *Proceedings of the 6th European Social Simulation Association Conference*, Surrey.
- 63) **Neumann, M.** (2008). Legitimacy and Conflict: an architecture of an integrated perspective. In: *Proceedings of the 5th Conference of the European Social Simulation Association*, Brescia.
- 64) **Neumann, M.** (2008). A Classification of normative Architectures. In: *Proceedings of the 3rd world congress of social simulation*, Washington.
- 65) **Neumann, M.** (2008). Cognitive Architectures of normative agent systems and social mechanisms of emergence and immergence. In: *Proceedings of the AISB Convention 2008*, Aberdeen.
- 66) **Neumann, M.** (2007). Two Dimensions of Sociality: Institutions and Positions. A Model-to-Model Analysis. In: *Proceedings of the Third international Model-to-Model Workshop*, Marseille.
- 67) **Neumann, M.**, Yilmaz, M. (2005). Replication and Analysis of a Model of the Emergence of the State. In: Toitzsch, K.G. (Ed.) *Proceedings of the 3rd International Congress of the European Social Simulation Association*, Koblenz.
- 68) **Neumann, M.** (2005). Emergent Social Ontology. Examples from Artificial Societies. In: Hill, D. et al. (Eds.). *OICMS 2005, Blaise Pascal University, Clermont-Ferrand*.

#### Reviews:

- 69) **Neumann, M.** (2018). Review of Michael Thompson: Rubbish theory. *European Societies* 20/4: 692-694.
- 70) **Neumann, M.** (2016). Review of Manuel DeLanda: Philosophy and Simulation. The emergence of synthetic reason. *Journal of Artificial Societies and Social Simulation* 19/3.
- 71) **Neumann, M.** (2013). Review of Agent-based computational sociology by Flaminio Squazzoni. *European Quarterly of Political Attitudes and Mentalities* 2/2: 71–72.
- 72) **Neumann, M.** (2009). Review of David N. Sichman, J.S. (Eds.): Multi-Agent-Based Simulation IX. Berlin: Springer 2009. *Journal for Artificial Societies and Social Simulation* 12/4.

- 73) **Neumann, M.** (2008). Review of Frank van Overwalle: Social Connectionism: A Reader and Handbook for Simulation. New York: Psychology Press 2007. *Journal for Artificial Societies and Social Simulation* 11/3.