



Articles Referenced in Tutorial – Use of Systems Thinking Archetypes in Socio-Environmental Modeling

(Sources listed in order of appearance in the video.)

- Elsawah, S., Filatova, T., Jakeman, A.J. et al. (2020). Eight grand challenges in socio-environmental systems modeling. *Socio-Environmental Systems Modelling*, 2. <https://doi.org/10.18174/sesmo.2020a16226>
- Senge, P. (1990). *The Fifth Discipline: The Art & Practice of The Learning Organization*. Doubleday/Currency.
- Kim, Daniel H., & Anderson, V. (1998). *Systems Archetype Basics: From Story to Structure*. Pegasus Communications Inc.
- Goodman, M., & Kleiner, A. (1993). Using the archetype family tree as a diagnostic tool. *The Systems Thinker*, 4(10), 5-6. <https://thesystemsthinker.com/wp-content/uploads/pdfs/041002E.pdf>
- Bahri, M. (2020). Analysis of the water, energy, food and land nexus using the system archetypes: A case study in the Jatiluhur reservoir, West Java, Indonesia. *Science of the Total Environment*, 716, 137025. <https://doi.org/10.1016/j.scitotenv.2020.137025>
- Neudert, R., Salzer, A., Allahverdiyeva, N., Etzold, J., & Beckmann, V. (2019). Archetypes of common village pasture problems in the South Caucasus. *Ecology and Society*, 24(3). <https://doi.org/10.5751/ES-10921-240305>
- Moallemi, E.A., Hosseini, S.H., Eker, S., Gao, L., Bertone, E., Szetey, K., & Bryan, B.A. (2022). Eight Archetypes of Sustainable Development Goal (SDG) Synergies and Trade-Offs. *Earth's Future*, 10(9), e2022EF002873. <https://doi.org/10.1029/2022EF002873>
- Zare, F., Elsawah, S., Bagheri, A., Nabavi, E., & Jakeman, A.J. (2019). Improved integrated water resource modelling by combining DPSIR and system dynamics conceptual modelling techniques. *Journal of Environmental Management* 246, 27-41. <https://doi.org/10.1016/j.jenvman.2019.05.033>
- Zare, F., Bagheri, A., & Elsawah, S. (2017). Using system archetypes for problem framing and a qualitative analysis: A case study in Iranian water resource management. In *22nd International Congress on Modeling and Simulation (MODSIM)*, 3-8, (pp. 1433–1439). https://www.researchgate.net/publication/321705455_Using_system_archetypes_for_problem_framing_and_a_qualitative_analysis_a_case_study_in_iranian_water_resource_management