Faculty of Arts and Social Sciences
Political Science

Course Reading

Method course II: Big data analysis and external monitoring

Valid from 08/31/2026

Course Code: SVAP33
Course Title: Method course II: Big data analysis and external monitoring
Credits: 7.5
Degree Level: Master's level

Books

Foster, I., Ghani, R., Jarmin, R. S., Kreuter, F., & Lane, J. (2020). *Big data and social science: Data science methods and tools for research and practice* (2 ed.). New York: Chapman and Hall/CRC

S.-H. Chen (2018). *Big Data in Computational Social Science and Humanities* (1 ed.). Springer Cham

Welker, M., Stützer, C. M., & Egger, M. (2018). *Computational social science in the age of big data: Concepts, methodologies, tools, and applications* (1 ed.). Köln: Herbert von Halem Verlag

Articles

Amaturo, E., & Aragona, B. (2019). Methods for big data in social sciences. *Mathematical Population Studies*, *26* (2), p. 65-68. https://doi.org/10.1080/08898480.2019.1597577

Gaeta, A., Loia, V., Lorusso, A., Orciuoli, F., & Pascuzzo, A. (2025). Computational analysis of Information Disorder in Cognitive Warfare. *Online Social Networks and Media*, *48*, p. 1-13. https://doi.org/10.1016/j.osnem.2025.100322

Guo, J. (2022). Deep learning approach to text analysis for human emotion detection from big data. *Journal of Intelligent Systems*, *31* (1), p. 113-126. https://doi.org/doi:10.1515/jisys-2022-0001

Lebernegg, N., Eberl, J.-M., Tolochko, P., & Boomgaarden, H. (2025). Do You Speak Disinformation?: Computational Detection of Deceptive News-Like Content Using Linguistic and Stylistic Features. *Digital Journalism*, *13* (8), p. 1373-1398. https://doi.org/10.1080/21670811.2024.2305792

Saeidnia, H. R., Hosseini, E., Lund, B., Tehrani, M. A., Zaker, S., & Molaei, S. (2025). Artificial intelligence in the battle against disinformation and misinformation: A systematic review of challenges and approaches. *Knowledge and Information Systems*, *67* (4), p. 3139-3158. https://doi.org/10.1007/s10115-024-02337-7

Shu, K. (2022). Combating disinformation on social media: A computational perspective. *BenchCouncil Transactions on Benchmarks, Standards and Evaluations*, *2* (1), p. 1-6. https://doi.org/https://doi.org/10.1016/j.tbench.2022.100035

Tindall, D., McLevey, J., Koop-Monteiro, Y., & Graham, A. (2022). Big data, computational social science, and other recent innovations in social network analysis. *Canadian Review of Sociology/Revue canadienne de sociologie*, *59* (2), p. 271-288. https://doi.org/https://doi.org/10.1111/cars.12377

Zhang, C., Gupta, A., Qin, X., & Zhou, Y. (2023). A computational approach for real-time detection of fake news. *Expert Systems with Applications*, *221*, p. 1-13. https://doi.org/https://doi.org/10.1016/j.eswa.2023.119656

Ett antal vetenskapliga artiklar om cirka 200 sidor tillkommer. Dessa meddelas vid kursstart.

Approved by the Faculty Board of Arts and Social Sciences 03/04/2026