SAGE Journal Articles

# Chapter 1: Professional Mindsets

**Journal Article 1.1:** [Kitchin, R. (2014). Big Data, new epistemologies and paradigm shifts. *Big data & society*, *1*(1).](https://journals.sagepub.com/stoken/rbtfl/P0I765UGLKMCLHAZ72NWX4/pdf/10.1177/2053951714528481)

**Explanation:** The article explains the paradigm shift with the arrival of Big Data. This is a complementary reading talking about new perspectives on theory and research in the new age.

# Chapter 2: Introduction to Big Data

**Journal Article 2.1:** [Moorthy, J., Lahiri, R., Biswas, N., Sanyal, D., Ranjan, J., Nanath, K. and Ghosh, P. (2015) ‘Big data: prospects and challenges’, *Vikalpa*, 40(1): 74–96](https://journals.sagepub.com/stoken/rbtfl/CVCNU247SLKRLKAVIRFMXI/pdf/10.1177/0256090915575450).

**Explanation:** The article discusses the advantages, prospects, challenges and disadvantages of Big Data. The main characteristics of Big Data (3Vs) are expanded (10Vs) and discussed along with the relevant technologies.

**Journal Article 2.2:** [Zeng, J. and Glaister, K.W. (2018) ‘Value creation from big data: Looking inside the black box’, *Strategic Organization, 16*(2): 105–140](https://journals.sagepub.com/stoken/rbtfl/546JKJ4P62FBE1RPVEVTK4/pdf/10.1177/1476127017697510).

**Explanation:** The article provides information on how organisations use and benefit from Big Data. The value creation from Big Data is explained from the academic perspective. Interesting quotes from experts provide valuable and practical information about the topic.

# Chapter 3: Introduction to (Advanced) Analytics

**Journal Article 3.1:** [Bornakke, T. and Due, B. L. (2018). Big–Thick Blending: A method for mixing analytical insights from big and thick data sources. *Big Data & Society*, *5*(1).](https://journals.sagepub.com/stoken/rbtfl/7SBBLH6Y8TG2QFXL5IKHKV/pdf/10.1177/2053951718765026)

**Explanation:** The article develops a framework for using Big Data analytics and getting insights from it. Cases provide clear practical examples.

# Chapter 4: Management Decision-Making

**Journal Article 4.1:** [Chongwatpol, J. (2016) ‘Data analysis and decision making: A case study of re-accommodating passengers for an airline company’, *Journal of Information Technology Teaching Cases, 6*(1): 23–35](https://journals.sagepub.com/stoken/rbtfl/18TQCWHW2O52Z1DVETWHL8/pdf/10.1057/jittc.2015.16).

**Explanation:** The article discusses decision making using business intelligence and data analytics. Decision making is explained through analysis and real-world examples/cases that provide practical information for the reader.

**Journal Article 4.2:** [Diesner, J. (2015). Small decisions with big impact on data analytics. *Big Data & Society*, *2*(2).](https://journals.sagepub.com/stoken/rbtfl/CZR9L2U9Q44VO73SGH0I8G/pdf/10.1177/2053951715617185)

**Explanation:** The article discusses how decisions about data cleaning and preparation affect the decision outcome.

# Chapter 5: Analytics in Management Decision-Making

**Journal Article 5.1:** [Calabretta, G., Gemser, G. and Wijnberg, N. M. (2017). The interplay between intuition and rationality in strategic decision making: A paradox perspective. *Organization Studies*, *38*(3–4), 365–401](https://journals.sagepub.com/stoken/rbtfl/71MONES5N8MAUFOMUD724C/pdf/10.1177/0170840616655483)

**Explanation:** This article discusses and emphasizes the relationship and tension between intuition and rational from a complementary angle focusing on the paradoxical nature of the relationship.

**Journal Article 5.2:** [Salas, E., Rosen, M.A. and DiazGranados, D. (2010) ‘Expertise-based intuition and decision making in organizations’, *Journal of Management*, 36(4): 941–973](https://journals.sagepub.com/stoken/rbtfl/LP7JAMD2DMD1SNSHKMXSPY/pdf/10.1177/0149206309350084).

**Explanation:** This article provides detailed explanations about the intuitive decision making, the other side of decision making. It also introduces the main theory, Dual Process Theory, the founding theory adopted in this book.

# Chapter 8: Integrating Contextual Factors in Management Decision-Making

**Journal Article 8.1:** [Head, B.W. and Alford, J. (2015) ‘Wicked problems: Implications for public policy and management’, *Administration & Society,* 47(6): 711–739](https://journals.sagepub.com/stoken/rbtfl/W1SSMTFKPIMQM4ML66003N/pdf/10.1177/0095399713481601).

**Explanation:** The article provides a general overview about wicked problems with some common dimensions. Although the article focuses on the policy and management about wicked problems (and strategies for dealing with them), it provides useful insight into solving difficult problems. The article provides complementary information to decision making from a different perspective for the readers interested in policy side of decision-making.

**Journal Article 8.2:** [Nelson, J.R. and Grubesic, T.H. (2019) ‘Oil spill modeling: computational tools, analytical frameworks, and emerging technologies’, *Progress in Physical Geography: Earth and Environment, 43*(1): 129–143](https://journals.sagepub.com/stoken/rbtfl/D4ZIDP9MSLCKR30BNIY4T/pdf/10.1177/0309133318804977).

**Explanation:** The article explains a recent incident: the Deepwater Horizon oil spill. While there is some discussion about tools and analytical frameworks used in this case, discussion about the technologies provides a connection to Chapter 10, where emerging technologies are discussed.

# Chapter 9: Managing the Ethics, Security, Privacy and Legal Aspects of Data-Driven Decision-Making

**Journal Article 9.1:** [Aitken, M., Toreini, E., Carmichael, P., Coopamootoo, K., Elliott, K. and van Moorsel, A. (2020). Establishing a social licence for Financial Technology: Reflections on the role of the private sector in pursuing ethical data practices. *Big Data & Society*, *7*(1).](https://journals.sagepub.com/stoken/rbtfl/ZCZW7UA8PCICP9DMOV0LR/pdf/10.1177/2053951720908892)

**Journal Article 9.2:** [Beduschi, A. (2019). Digital identity: Contemporary challenges for data protection, privacy and non-discrimination rights. *Big Data & Society*, *6*(2).](https://journals.sagepub.com/stoken/rbtfl/EHHEME65177F5ZBQS5X54E/pdf/10.1177/2053951719855091)

**Journal Article 9.3:** [Obar, J. A. (2015). Big Data and the phantom public: Walter Lippmann and the fallacy of data privacy self-management. *Big Data & Society*, *2*(2)](https://journals.sagepub.com/stoken/rbtfl/37ZZZBAP65TMQHZLH6JXBA/pdf/10.1177/2053951715608876).

**Journal Article 9.4:** [McStay, A. (2020). Emotional AI, soft biometrics and the surveillance of emotional life: An unusual consensus on privacy. *Big Data & Society*, *7*(1).](https://journals.sagepub.com/stoken/rbtfl/R760621BH3L3IHQE3OX1WP/pdf/10.1177/2053951720904386)

**Journal Article 9.5:** [Munn, L., Hristova, T. and Magee, L. (2019). Clouded data: Privacy and the promise of encryption. *Big Data & Society*, *6*(1).](https://journals.sagepub.com/stoken/rbtfl/GI77HSNLAOP2C9XAAFYK2D/pdf/10.1177/2053951719848781)

**Journal Article 9.6:** [Ustek-Spilda, F., Powell, A. and Nemorin, S. (2019). Engaging with ethics in Internet of Things: Imaginaries in the social milieu of technology developers. *Big Data & Society*, *6*(2)](https://journals.sagepub.com/stoken/rbtfl/TTG081NN0CQR4AFVH4ZGE/pdf/10.1177/2053951719879468).

**Explanation:** Following articles cover ethics and privacy topics from various perspectives:

* Ethics and ethical data practices
* Challenges regarding data privacy and protection,
* Data privacy under the age Big Data, self-management,
* Emotional AI, surveillance,
* Privacy relating to different emerging technologies such as cloud computing and blockchain and under different industries,
* Understanding and valuing data along with ethics

# Chapter 10: Managing Emerging Technologies and Decision-Making

**Journal Article 10.1:** [Haenlein, M. and Kaplan, A. (2019) ‘A brief history of artificial intelligence: on the past, present, and future of artificial intelligence’, *California Management Review, 61*(4): 5–14.](https://journals.sagepub.com/stoken/rbtfl/47THBPGEQBCOVPBCZBEDHF/pdf/10.1177/0008125619864925)

**Explanation:** A detailed look into AI. The past, present and future of AI are discussed in the article. Students can start reading this article first to have sufficient background on the topic.

**Journal Article 10.2:** [Metcalf, L., Askay, D.A. and Rosenberg, L.B. (2019) ‘Keeping humans in the loop: pooling knowledge through artificial swarm intelligence to improve business decision making’, *California Management Review, 61*(4): 84–109.](https://journals.sagepub.com/stoken/rbtfl/UEHWJRYF4Y9UE1XJPFPIPA/pdf/10.1177/0008125619862256)

**Explanation:** This article discusses AI and its role and use in decision making. This article provides information about the role of humans along with the developments of AI for decision making. Therefore, it addresses a common question, which was mentioned in the chapter, about decision making in the future when AI is more advanced, along with the role of humans.

**Journal Article 10.3:** [Shrestha, Y.R., Ben-Menahem, S.M. and Von Krogh, G. (2019) ‘Organizational decision-making structures in the age of artificial intelligence’, *California Management Review, 61*(4): 66–83](https://journals.sagepub.com/stoken/rbtfl/RTSAAJXOXYBS3FRUJC1G9/pdf/10.1177/0008125619862257).

**Explanation:** The article complements the discussion about decision making using AI. Interaction of humans and AI are discussed regarding decision making.

**Journal Article 10.4:** [Tambe, P., Cappelli, P. and Yakubovich, V. (2019) ‘Artificial intelligence in human resources management: challenges and a path forward’, *California Management Review, 61*(4): 15–42](https://journals.sagepub.com/stoken/rbtfl/5F97QZ1QKKL4FZJXWO1PHE/pdf/10.1177/0008125619867910).

**Explanation:** The role of AI in the HR domain is explained. Potential challenges as well as HR operations using AI are discussed.