

## MADSAD – Mandatory Bibliography

Semester 1

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### Data Mining I

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| João Manuel Portela da Gama; <b>Extração de conhecimento de dados</b> . ISBN: 978-972-618-914-5  | Not Available in the Drive |
| Jiawei Han; <b>Data Mining: Concepts and Techniques</b> , Moegan Kaufman, 2006   | PDF Version                |
| Tom M. Mitchell; <b>Machine learning</b> , McGraw Hill, 1997   | PDF Version                |
| an Witten, Eibe Frank; <b>Data Mining: practical machine learning tools and Techniques with java implementations</b> , Morgan Kaufmann, 2000 | PDF Version                |
| David Hand, Heikki Mannila; Padhraic Smyth; <b>Principles of Data Mining</b> , MIT Press, 2001   | PDF Version                |

### Laboratory

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| Steven S. Skienna; <b>The data science design manual</b> , Springer, 2017. ISBN: 978-3-319-55443-3  | PDF Version |
| João Mendes Moreira, André C. P. L. F. de Carvalho, Tomáš Horváth; <b>A General Introduction to Data Analytics</b> , Wiley, 2019. ISBN: 9781119296249 | PDF Version |

### Data Bases and Programming

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| Mark Lutz; <b>Learning Python</b> , 2013. ISBN: 1449355730 | PDF Version |
| James R. Groff; <b>Using SQL</b> . ISBN: 0-07-881524-X     | PDF Version |

### Applied Statistics

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|---|-------------|
| Conover,W. J.; <b>Practical nonparametric statistics</b> , John Wiley, 1999 (New York)  | PDF Version |
| Fishman, G. S.; Monte Carlo. <b>Concepts, Algorithms and Applications</b> , Springer, 1996  | PDF Version |
| Ross, S. M.; <b>Simulation</b> , Academic press, (DM 62-443), 1997  | PDF Version |
| Douglas C. Montgomery, George C. Runger; <b>Applied Statistics and Probability for Engineers</b> , wiley, 2018. ISBN: 978-1-119-40036-3 | PDF Version |

### Optimization

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| Gendreau Michel 340; Handbook of metaheuristics. ISBN: 978-1-4419-1663-1           | PDF Version |
| Frederick S. Hillier; Introduction to operations research. ISBN: 978-1-259-25318-8 | PDF Version |

**Data Mining II**

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| João Gama, A. Carvalho, K. Faceli, A. Lorena, M. Oliveira; <b>Extração de Conhecimento de Dados - Data Mining</b> , Edições Silabo         | Not Available in the Drive |
| Jiawei Han; <b>Data Mining: Concepts and Techniques</b> , Morgan Kaufman, 2006   | PDF Version                |
| Joao Gama; <b>Knowledge Discovery From Data Streams</b> , CRC Press, 2009  | PDF Version                |
| P. Brazdil, C. Giraud-Carrier, C. Soares and R. Vilalta; <b>Metalearning – Applications to Data Mining</b> , 2009. ISBN: 978-3-540-73262-4 | PDF Version                |
| Charu Aggarwal; <b>Data Streams - Models and Algorithms</b> , Springer, 2007   | PDF Version                |

**Forecasting Methods and Time Series**

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|---|-------------|
| Wei, W.W.S.; <b>Time Series Analysis - Univariate and Multivariate Methods</b> , Pearson/Addison-Wesley, 2006. ISBN: 0-321-32216-9          | PDF Version |
| Cryer, Jonathan D.; <b>Time series analysis: with applications in R</b> , 2009  | PDF Version |
| Spyros G. Makridakis; <b>Forecasting</b> . ISBN: 0-471-53233-9  | PDF Version |
| Hyndman, R., Athanasopoulos, G.; <b>Forecasting: Principles and Practice</b> , <a href="http://www.otexts.com/fpp3">www.otexts.com/fpp3</a> | PDF Version |

**Data Analysis**

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| Subhash Sharma; <b>Applied Multivariate Techniques</b> , Wiley, 1996                                       | PDF Version                |
| João Maroco; <b>Análise Estatística com utilização do SPSS</b> , Edições Silabo                            | PDF Version in PT          |
| L. Lebart, A. Morineau, M. Piron; <b>Statistique Exploratoire Multidimensionnelle</b> , Dunod, Paris, 1995 | Not Available in the Drive |
| Brian S. Everitt; <b>Applied multivariate Data Analysis</b> . ISBN: 978-0-470-71117-0                      | PDF Version                |

**Decision Analysis**

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| R. T. Clemen and T. Reilly; <b>Making Hard Decisions</b> , Duxbury, 2001 | PDF Version |
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**Risk Analysis**

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| N. L. Bowers Jr, H. U. Gerber, J. C. Hickman, D. Jones e C. J. Nesbitt; <b>Actuarial Mathematics</b> , The Society of Actuaries, Chicago, 1986 | PDF Version |
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**Business Intelligence**

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| Dan Clark; <b>Beginning Power BI</b> , APress, 2020                                 | PDF Version |
| Jeffrey D. Ullman; <b>A first course in databases systems</b> . ISBN: 0-13-861337-0 | PDF Version |

**Data Collection and Sampling**

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| Vic Barnett; <b>Sample Survey – Principles and Methods</b> , 3rd edition, Hodder and Arnold, 2003 | PDF Version |
| Naresh K. Malhotra; <b>Marketing research</b> . ISBN: 978-0-13-609423-4                           | PDF Version |

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| Manuela Magalhães Hill e Andrew Hill; <i>Investigação por Questionário</i> , 2ª Edição, Sílabo, 2008  | Not Available in the Drive |
| J. N. K. Rao, Isabel Molina; <i>Small Area Estimation</i> , 2nd Edition, Wiley, 2015  | PDF Version                |
| Wendy Olsen; <i>Data Collection: Key Debates and Methods in Social Research Paperback</i> , SAGE, 2011  | PDF Version                |
| Robert M. Groves, Floyd J. Fowler Jr., Mick P. Couper, James M. Lepkowski, Eleanor Singer, Roger Tourangeau; <i>Survey Methodology</i> , 2nd edition, Wiley   | PDF Version                |
| <b>Willem E. Saris Irmtraud N. Gallhofer</b> ; <i>Design, Evaluation, and Analysis of Questionnaires for Survey Research</i> , Willey, 2007   | PDF Version                |
| <b>Official Statistics Systems</b>  |                            |
| European Statistical System; <i>Quality Assurance Framework of the European Statistical System</i> . Version 2.0, 2019 (Available at: <a href="https://ec.europa.eu/eurostat/documents/64157/4392716/ESS-QAF-V1-2final.pdf/bbf5970c-1adf-46c8-afc3-58ce177a0646">https://ec.europa.eu/eurostat/documents/64157/4392716/ESS-QAF-V1-2final.pdf/bbf5970c-1adf-46c8-afc3-58ce177a0646</a> .)  | PDF Version                |
| Eurostat; <i>European Statistics Code of Practice, 2017</i> (Available at: <a href="https://ec.europa.eu/eurostat/web/products-catalogues/-/KS-02-18-142">https://ec.europa.eu/eurostat/web/products-catalogues/-/KS-02-18-142</a> .)   | PDF Version                |
| Eurostat; <i>The GSBPM: Generic Statistical Business Process Model, 2020</i> (Available at: <a href="https://ec.europa.eu/eurostat/cros/content/gsbpm-generic-statistical-business-process-model-theme_en">https://ec.europa.eu/eurostat/cros/content/gsbpm-generic-statistical-business-process-model-theme_en</a> .)  | Not Available in the Drive |
| Matthias Templ, Bernhard Meindl, Alexander Kowarik and Shuang Chen; <i>Introduction to Statistical Disclosure Control</i> , IHSN Working Paper No 007, 2014 (Available at: <a href="https://www.ihsn.org/sites/default/files/resources/ihsn-working-paper-007-Oct27.pdf">https://www.ihsn.org/sites/default/files/resources/ihsn-working-paper-007-Oct27.pdf</a> )  | PDF Version                |
| Anco Hundepool, Josep Domingo-Ferrer, Luisa Franconi, Sarah Giessing, Eric Schulte Nordholt, Keith Spicer, Peter-Paul de Wolf; <i>Statistical Disclosure Control</i> , Wiley, 2012. ISBN: ISBN: 978-1-119-97815-2 (A similar document is availabl at: <a href="https://www.cbs.nl/en-gb/our-services/methods/statistical-methods/output/output/statistical-disclosure-control">https://www.cbs.nl/en-gb/our-services/methods/statistical-methods/output/output/statistical-disclosure-control</a> ) | PDF Version                |