

Moodle 4 Administration – An administrator's guide to configuring, securing, customizing, and extending Moodle, Packt Publishing, 640 pages, 2022.

Corporate Learning with Moodle Workplace – Explore concepts, implementation, and strategies for adopting Moodle Workplace in your organization, Packt Publishing, 358 pages, 2020.

Moodle 3 Administration – An administrator's guide to configuring, securing, customizing, and extending Moodle, Packt Publishing, 492 pages, 2016.

Moodle 2 Administration – An administrator's guide to configuring, securing, customizing, and extending Moodle, Packt Publishing, 420 pages, 2011.

Moodle Administration – An administrator's guide to configuring, securing, customizing, and extending Moodle, Packt Publishing, 376 pages, 2008.

**A.G. Büchner**, M. Baumgarten, W.D. Patterson. Contextual Comparison of Discovered Web Mining Patterns, in Proc. 3rd IJCAI Workshop on Intelligent Techniques for Web Personalization, pages 41-48, Edinburgh, Scotland, 2005.

**A.G. Büchner**, W.D. Patterson. Personalised E-Learning Opportunities - Call for a Pedagogical Domain Knowledge Model (*invited paper*), in Proc. 15th International Workshop on Database and Expert Systems Applications (DEXA'04), IEEE Computer Society, pages 410-414, Zaragoza, Spain, September 2004.

**A.G. Büchner**, M. Baumgarten, J.G. Hughes, W.D. Patterson. Contextual Comparison of Discovered Knowledge Patterns, in Proc. 16th Int'l Conf. on Software Engineering and Knowledge Engineering (SEKE'04), pages 388-391, Banff, Canada, June 2004.

**A.G. Büchner**, Context Mediation among Knowledge Discovery Components, Universal Publishers, ISBN 1-58112-228-4, 2004.

M. Baumgarten, **A.G. Büchner**, J.G. Hughes. Tree-Growth based Sequential and Associative Pattern Discovery, in Proc. 15th Int'l Conf. on Software Engineering and Knowledge Engineering (SEKE'03), pages 240-244, San Francisco, CA, July 2003.

M. Baumgarten, **A.G. Büchner**, J.G. Hughes. User-Driven Ranking for Measuring the Interestingness of Knowledge Patterns, in Proc. 2003 Int'l Conf. on Information and Knowledge Engineering (IKE 2003), pages 122-128, Las Vegas, NE, June 2003.

M. Baumgarten, **A.G. Büchner**, J.G. Hughes. Tree Growth Based Episode Mining Without Candidate Generation, in Proc. 2003 Int'l Conf. on Artificial Intelligence (IAI 2003), pages 108-114, Las Vegas, NE, June, 2003.

S.S. Anand, **A.G. Büchner**. Database marketing, web mining, in W. Klösgen, J. Zytkow (eds.) Handbook of Data Mining and Knowledge Discovery, Oxford University Press, pages 843-849, ISBN 0-195-11831-6, 2002.

M. Baumgarten, **A.G. Büchner**, S.S. Anand, M.D. Mulvenna, J.G. Hughes. Navigation Pattern Discovery from Internet Data, in B. Masand, M. Spiliopoulou (eds.) Advances in Web Usage Analysis and User Profiling, Lecturer Notes in Computer Science (LNCS), Vol. 1836, Springer-Verlag, pages 74-91, ISBN 3-540-67818-2, 2000.

M.D. Mulvenna, S.S. Anand, **A.G. Büchner**. Personalization on the Net using Web Mining, *Guest Editors* for Communications of the ACM, ISSN 0001-0782, 43(8): 30-34, 2000.

M.D. Mulvenna, **A.G. Büchner**, L. Moussy, D. Slater. Data Mining: Giving E-Tailers What They Want, in Int'l Journal of e-Business Strategy Management, ISSN 1467-0305, 1(4):289-298, 2000.

S.S. Anand, M. Baumgarten, **A.G. Büchner**, M.D. Mulvenna. Gaining Insights into Web Customers using Web Intelligence, in Proc. 14th European Conf. on Artificial Intelligence, pages 681-685, ISBN 1-586-03013-2, Berlin, Germany, 2000.

M.D. Mulvenna, S.S. Anand, **A.G. Büchner**, R. Böhm, M. Baumgarten. Applying Web Intelligence, in Proc. 2nd Int'l Conf. on Electronic Commerce (ICEC2000), pages 206-212, ISBN 89-95 0049-1-6 93320, Seoul, Korea, 2000.

**A.G. Büchner**, M. Baumgarten, M.D. Mulvenna, R. Böhm, S.S. Anand. Data Mining and XML: Current and Future Issues (*invited paper*), in Proc. 1st Int'l Conf. on Web Information Systems Engineering, pages 127-131, Hong Kong, China, 2000.

**A.G. Büchner**, M. Ranta, J.G. Hughes, M. Mäntylä. Semantic Information Mediation among Multiple Product Ontologies, in Proc. 5th World Conf. on Integrated Design & Process Technology, Dallas, TX, 8 pages, 2000.

M. Ranta, **A.G. Büchner**, M. Mäntylä, J.G. Hughes. Collaboration in Heterogeneous Environments along Product Processes, in Proc. 5th World Conf. on Integrated Design & Process Technology, Dallas, TX, 8 pages, 2000.

M.D. Mulvenna, T. de Bree, S.S. Anand, **A.G. Büchner**, M. Baumgarten: Personalizing Financial Interactions Using Web Mining (*invited paper*), Proc. 5th Int'l Meeting on Artificial Intelligence & Emerging Technologies in Accounting, Finance & Tax, page 32 + CD-ROM, ISBN 84-950895-7-2, Huelva, Spain, 2000.

M.D. Mulvenna, S.S. Anand, **A.G. Büchner**, M. Baumgarten A. Patrick, Z. Neuman. Web Intelligence: Analysis, Representation & Deployment, in B. Stanford-Smith, P.T. Kidd (eds.) E-business: Key Issues, Applications and Technologies, IOS Press, ISBN 1-58603-089-2, pages 789-795, 2000.

M.D. Mulvenna, S.S. Anand, **A.G. Büchner**, M. Baumgarten R. Böhm, Z. Neuman. Web Intelligence: Analysis, Representation & Deployment, eBusiness and eWork 2000 Conf. and Exhibition, Madrid, Spain, 2000.

M.D. Mulvenna, **A.G. Büchner**, S.S. Anand, M. Baumgarten, R. Böhm: Web Intelligence & Representation of Mined Knowledge, INFORMS-2000, Salt Lake City, UT, 2000.

**A.G. Büchner**, J.C.L. Chan, S.L. Hung, J.G. Hughes. A Meteorological Knowledge Discovery Environment, in M. Bramer (ed.). Knowledge Discovery and Data Mining: Theory and Practise, Institution of Electrical Engineers Practical Application and Computing, pages 204-226, ISBN 0-852-96767-5, 1999.

W. Dubitzky, **A.G. Büchner**, J.G. Hughes, D.A. Bell. Towards Concept-Oriented Databases, in Journal on Data and Knowledge Engineering, Elsevier Science B.V., ISSN 0169-023X, 30(1):23-55, 1999.

**A.G. Büchner**, J.G. Hughes, D.A. Bell. Contextual Data and Domain Knowledge for Incorporation in Knowledge Discovery Systems, in Proc. 2nd Int'l and Interdisciplinary Conf. on Modeling and Using Context (CONTEXT-99), Trento, Italy, Lecture Notes in Artificial Intelligence, Vol. 1688, Springer-Verlag, ISBN 3-540-66432-7, pages 447-450, 1999.

**A.G. Büchner**, M.D. Mulvenna, S.S. Anand, J.G. Hughes. An Internet-enabled Knowledge Discovery Process (*best paper award*), in Proc. 9th Int'l. Database Conf., Hong Kong, pages 13-27, July 1999.

K.-D. Thoben, P.M. Wognum, H.J. Pels, **A.G. Büchner**, J.B.M. Goossenaerts, M. Ranta, A.A.M. Ranke, W.M. Gibbons, I.C. Kerssens-van Drongelen. From Product Data to Product Data and Knowledge Management – Requirements and Research Perspective, in Proc. 5th Int'l Conf. on Concurrent Enterprising, The Hague, The Netherlands, pages 147 – 155, 1999.

**A.G. Büchner**, M. Baumgarten, S.S. Anand, M.D. Mulvenna, J.G. Hughes. Navigation Pattern Discovery from Internet Data, in ACM Workshop on Web Usage Analysis and User Profiling (WebKDD) San Diego, CA, pages 25-30, 1999.

**A.G. Büchner**, J.G. Hughes, D.A. Bell. Contextual Domain Knowledge for Incorporation in Data Mining Systems, in Proc. AAAI Workshop on Reasoning in Context for AI Applications, AAAI Press Technical Report WS-99-14, ISBN 1-57735-098-7, Orlando, FL, pages 21-25, 1999.

W. Dubitzky, **A.G. Büchner**, F. Azuaje. Viewing Knowledge Management as a Case-Based Reasoning Application, in Proc. AAAI Workshop on Exploring Synergies of Knowledge Management

and Case-Based Reasoning, AAAI Press, Technical Report WS-99-10, ISBN 1-57735-094-4, Orlando, FL, pages 23-27, 1999.

**A.G. Büchner**, S.S. Anand, M.D. Mulvenna, J.G. Hughes. Discovering Internet Marketing Intelligence through Web Log Mining, Unicom'99, 1999.

D. Slater, M.D. Mulvenna, **A.G. Büchner**, L. Moussy. Mining Marketing Intelligence from Internet Retailing Data: User Requirements & Business Process Description, J.-Y. Roger, B. Stanford-Smith, P.T. Kidd (eds.). Business and Work in the Information Society: New Technologies and Applications, IOS Press, ISBN 90-5199-491-5, pages 63-69, 1999.

S.S. Anand, **A.G. Büchner**. Decision Support Using Data Mining, Financial Times Pitman Publishers, ISBN 0-273-63269-8, 1998.

**A.G. Büchner**, M.D. Mulvenna. Discovering Internet Marketing Intelligence through Online Analytical Web Usage Mining, in ACM SIGMOD Record (special issue on electronic commerce), ISSN 0163-5808, 27(4):54-61, 1998.

M.D. Mulvenna, M.T. Norwood, **A.G. Büchner**. Data-Driven Marketing, in Electronic Markets: The Int'l. Journal of Electronic Commerce and Business Media, 8(3):32-35, ISSN 1019-6781, 1998.

**A.G. Büchner**, D.A. Bell, J.G. Hughes. A Contextualised Object Data Model based on Semantic Values, in Proc. 11th Int'l. Conf. Parallel and Distributed Computing Systems (PDCS-98), Chicago, IL, pages 171-176, ISBN 1-880843-25-0, 1998.

**A.G. Büchner**, D.A. Bell, J.G. Hughes. An Internationalised Object Data Model: a Locale-based Approach, in Proc. 9th Int'l. Conf. on Management of Data (COMAD'98), Hyderabad, India, pp. 22-37, ISBN 0-07-463798-3, McGraw Hill, 1998.

J.B.M. Goossenaerts, M. Ranta, A.A.M. Ranke, P.M. Wognum, W.M. Gibbons, **A.G. Büchner**, I.C. Kerssens-van Drongelen, K.-D. Thoben, H. J. Pels. Product related Data and Knowledge Management in the Intelligent Enterprise, forthcoming in Proc. 1st Int'l. Workshop Intelligent Manufacturing Systems (IMS-Europe'98), Lausanne, Switzerland, pages 429-444, 1998.

G. Colwell, M.D. Mulvenna, **A.G. Büchner**. Mining the Internet for Marketing Intelligence, in The Irish Scientist Year Book No. 6, ISBN 1-898-70616-6, ISSN 0791-878X, pages 142-143, 1998.

L. Moussy, M.D. Mulvenna, **A.G. Büchner**, J. Clinton. Data Mining Techniques in Electronic Shopping Malls, J.-Y. Roger, B. Stanford-Smith, P.T. Kidd (eds.). Technologies for the Information Society: Developments and Opportunities, IOS Press, ISBN 90-5199-450-8, pages 368-372, 1998.

**A.G. Büchner**, M.D. Mulvenna. Discovering Behavioural Patterns in Internet Log Files: Playing the Devil's Advocate, in Proc. 12th Biennial Int'l. Telecommunications Society Conf. (ITS-98), Stockholm, Sweden, 1998.

M.D. Mulvenna, M.T. Norwood, **A.G. Büchner**. Data Mining for Marketing Intelligence on the Internet, in Competing in the Information Society Conference (CIS'98), Genova, Italy, 1998.

**A.G. Büchner**, S.S. Anand, J.G. Hughes. Data Mining in Manufacturing Environments: Goals, Techniques and Applications, in Studies in Informatics and Control, 6(4):319-328, ISSN 1220-1766, 1997.

**A.G. Büchner**, W. Dubitzky, A. Schuster, P. Lopes, P.G. O'Donoghue, J.G. Hughes, D.A. Bell, K. Adamson, J.A. White, J. Anderson, M.D. Mulvenna. Corporate Evidential Decision Making in Performance Prediction Domains, in Proc. 13th Conf. Uncertainty in Artificial Intelligence (UAI'97), Providence, RI, pages 38-45, ISBN 1-55860-485-5, Morgan Kaufmann Publishers, 1997.

M.D. Mulvenna, **A.G. Büchner**, M.T. Norwood, C. Grant. The 'Soft-Push': Mining Internet Data for Marketing Intelligence, in Working Conf. Electronic Commerce in the Framework of Mediterranean Countries, Metsovo, Greece, pages 333-349, 1997.

**A.G. Büchner**, B. Yang, S. Ram, D.A. Bell, J.G. Hughes. A Holistic Architecture for Knowledge Discovery in Multi-Database Environments, in Proc. ACM SIGMOD Workshop on Research Issues on Data Mining and Knowledge Discovery (DMKD'97), Tucson, AZ, page 87, 1997.

S.S. Anand, **A.G. Büchner**, J.G. Hughes. Data Mining - Delving into the Unknown, White Paper, University of Ulster Data Mining Interest Group, 1997.

M. Norwood, M.D. Mulvenna, **A.G. Büchner**, C. Grant. Building Competitive Advantage on the Internet using Relationship Marketing, in 1st Berlin Internet Economics Workshop, Berlin, 1997.

M.D. Mulvenna, **A.G. Büchner**. Data Mining and Electronic Commerce, in Overcoming Barriers to Electronic Commerce (OBEC'97), Málaga, Spain, 1997.

M.D. Mulvenna, R. Mclvor, D.G. Leahy, J.R.C. Allen, **A.G. Büchner**, J.G. Hughes. How Knowledge Based Systems support Business Process Re-Engineering, in Proc. 13th Irish Manufacturing Conference (IMC-13), Limerick, Ireland, pages 309-318, 1996.

S.S. Anand, **A.G. Büchner**, J.G. Hughes, D.A. Bell. Towards Real-World Data Mining, in Proc. Workshop on Data Mining in Real World Databases at the Int. Conf. on Practical Aspects of Knowledge Management, Vol. 1, Basel, Switzerland, 1996.

M.D. Mulvenna, **A.G. Büchner**, J.G. Hughes, D.A. Bell. Re-engineering Business Processes to facilitate Data Mining, in Proc. Workshop on Data Mining in Real World Databases at the Int. Conf. on Practical Aspects of Knowledge Management, Vol. 1, Basel, Switzerland, 1996.

**A.G. Büchner**, S.S. Anand, D.A. Bell, J.G. Hughes. A Framework for Discovering Knowledge from Distributed and Heterogeneous Databases, in Proc. IEE Coll. Knowledge Discovery and Data Mining, Digest No 96/198a, pages 8-1-8/4, London, 1996.

## Committees & Reviewing

- 2005 Program Committee, 2nd Atlantic Web Intelligence Conference, Lodz, Poland
- 2004 Program Committee, 2nd Atlantic Web Intelligence Conference, Cancun, Mexico
- 2003 Program Committee, ACM SIGKDD Workshop WEBKDD (Washington, DC)
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- 2001 Program Committee, International Conference on Electronic Commerce (Vienna, Austria)
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- 2001 Program Committee, 5th European Conference on Principles and Practice of Knowledge Discovery in Databases, Workshop "Data Mining in Marketing", (Freiburg, Germany)
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- 1999- Reviewer, Computers in Industry, Elsevier Science
- 1999 Program Committee, ACM SIGIR'99 Workshop on Customized Information Delivery
- 1998 Reviewer, Artech House Publishers
  
- 2002-2006 Evaluator & Reviewer, European Programme for Research and Technological Development, Framework VI
- 2000-2001 Deputy Chair, Momentum Digital Media Special Interest Group
- 1998-2001 Peer reviewer, European Programme for Research and Technological Development, Framework V
- 1998-2001 Contributing member, International XML standardisation group PMML (Predictive Modeling Markup Language)