

List of Publications

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Books (Authored Books and a Selection of Edited Books)

1. R. Hähnle and W.M.P. van der Aalst, editors. *International Conference on Fundamental Approaches to Software Engineering (FASE 2019)*, volume 11424 of *Lecture Notes in Computer Science*. Springer-Verlag, Berlin, 2019.
2. W.M.P. van der Aalst. *Process Mining: Data Science in Action*. Springer-Verlag, Berlin, 2016.
3. W.M.P. van der Aalst and E. Best, editors. *Application and Theory of Petri nets and Concurrency (Petri Nets 2017)*, volume 10258 of *Lecture Notes in Computer Science*. Springer-Verlag, Berlin, 2017.
4. N. Russell, W.M.P. van der Aalst, and A. ter Hofstede. *Workflow Patterns: The Definitive Guide*. MIT Press, Cambridge, MA, 2016.
5. R. Mans, W.M.P. van der Aalst, and R. Vanwersch. *Process Mining in Healthcare: Evaluating and Exploiting Operational Healthcare Processes*. Springer Briefs in Business Process Management. Springer-Verlag, Berlin, 2015.
6. W.M.P. van der Aalst. *Process Mining: Discovery, Conformance and Enhancement of Business Processes*. Springer-Verlag, Berlin, 2011.
7. W.M.P. van der Aalst and C. Stahl. *Modeling Business Processes: A Petri Net Oriented Approach*. MIT Press, Cambridge, MA, 2011.
8. A.H.M. ter Hofstede, W.M.P. van der Aalst, M. Adams, and N. Russell. *Modern Business Process Automation: YAWL and its Support Environment*. Springer-Verlag, Berlin, 2010.
9. J. Cardoso and W.M.P. van der Aalst. *Handbook of Research on Business Process Modeling*. Information Science Publishing, Hershey, PA, USA, 2009.
10. L.J. Zhang, W.M.P. van der Aalst, and P. Hung, editors. *IEEE International Conference on Services Computing (SCC 2007)*. IEEE Computer Society, 2007.
11. M. Dumas, W.M.P. van der Aalst, and A.H.M. ter Hofstede. *Process-Aware Information Systems: Bridging People and Software through Process Technology*. Wiley & Sons, 2005.
12. W.M.P. van der Aalst, B. Benatallah, F. Casati, and F. Curbera, editors. *International Conference on Business Process Management (BPM 2005)*, volume 3649 of *Lecture Notes in Computer Science*. Springer-Verlag, Berlin, 2005.
13. W.M.P. van der Aalst and K.M. van Hee. *Workflow Management: Models, Methods and Systems (in Chinese)*. Tsingua University Press, Beijing, China, 2004.
14. W.M.P. van der Aalst and K.M. van Hee. *Workflow Management: Models, Methods and Systems (in Dutch, second revised print)*. Academic Service, Schoonhoven, 2004.
15. R. Meersman, Z. Tari, W.M.P. van der Aalst, C. Bussler, and A. Gal et al., editors. *On the Move to Meaningful Internet Systems 2004: CoopIS, DOA, and ODBASE: OTM Confederated International Conferences, CoopIS, DOA, and ODBASE 2004 (Part I)*, volume 3290 of *Lecture Notes in Computer Science*. Springer-Verlag, Berlin, 2004.
16. R. Meersman, Z. Tari, W.M.P. van der Aalst, C. Bussler, and A. Gal et al., editors. *On the Move to Meaningful Internet Systems 2004: CoopIS, DOA, and ODBASE: OTM Confederated International*

- Conferences, CoopIS, DOA, and ODBASE 2004 (Part II)*, volume 3291 of *Lecture Notes in Computer Science*. Springer-Verlag, Berlin, 2004.
17. W.M.P. van der Aalst and E. Best, editors. *24th International Conference on Applications and Theory of Petri Nets (ICATPN 2003)*, volume 2679 of *Lecture Notes in Computer Science*. Springer-Verlag, Berlin, 2003.
 18. W.M.P. van der Aalst, A.H.M. ter Hofstede, and M. Weske, editors. *International Conference on Business Process Management (BPM 2003)*, volume 2678 of *Lecture Notes in Computer Science*. Springer-Verlag, Berlin, 2003.
 19. W.M.P. van der Aalst, J-M. Colom, F. Kordon, G. Kotsis, and D. Moldt. *Petri Net Approaches for Modelling and Validation*, volume 1 of *LINCOM Studies in Computer Science*. Lincom, München, Germany, 2003.
 20. W.M.P. van der Aalst and K.M. van Hee. *Workflow Management: Models, Methods, and Systems*. MIT Press, Cambridge, MA, 2002.
 21. W.M.P. van der Aalst, J. Desel, and A. Oberweis, editors. *Business Process Management: Models, Techniques, and Empirical Studies*, volume 1806 of *Lecture Notes in Computer Science*. Springer-Verlag, Berlin, 2000.
 22. W.M.P. van der Aalst and K.M. van Hee. *Workflow Management: Modellen, Methoden en Systemen (in Dutch)*. Academic Service, Schoonhoven, 1997.

International Journal Publications (Refereed)

23. W.M.P. van der Aalst. Lucent Process Models and Translucent Event Logs. *Fundamenta Informaticae*, 169(1-2):151-177, 2019.
24. E.G.L. de Murillas, H.A. Reijers, and W.M.P. van der Aalst. Case Notion Discovery and Recommendation: Automated Event Log Building on Databases. *Knowledge and Information Systems*, pages 1-37, 2020.
25. M.L. van Eck, N. Sidorova, and W.M.P. van der Aalst. Guided Interaction Exploration and Performance Analysis in Artifact-Centric Process Models. *Business and Information Systems Engineering*, 61(6):649-663, 2019.
26. A.A. Kalenkova, A. Burattin, M. de Leoni, W.M.P. van der Aalst, and A. Sperduti. Discovering High-Level BPMN Process Models From Event Data. *Business Process Management Journal*, 25(5):995-1019, 2019.
27. E. González López de Murillas, H.A. Reijers, and W.M.P. van der Aalst. Connecting Databases With Process Mining: A Meta Model and Toolset. *Software and System Modeling*, 18(2):1209-1247, 2019.
28. A.F. Syring, N. Tax, and W.M.P. van der Aalst. Evaluating Conformance Measures in Process Mining Using Conformance Propositions. In M. Koutny, L. Pomello, and L.M. Kristensen, editors, *Transactions on Petri Nets and Other Models of Concurrency (ToPNoC 14)*, volume 11970 of *Lecture Notes in Computer Science*, pages 192-221. Springer-Verlag, Berlin, 2019.
29. M. Hassani, S.J. van Zelst, and W.M.P. van der Aalst. On the Application of Sequential Pattern Mining Primitives to Process Discovery: Overview, Outlook and Opportunity Identification. *Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery*, 9(6):1-13, 2019.
30. N. Tax, E. Alasgarov, N. Sidorova, R. Haakma, and W.M.P. van der Aalst. Generating Time-Based Label Refinements to Discover More Precise Process Models. *Journal of Ambient Intelligence and Smart Environments*, 11(2):165-182, 2019.

31. N. Tax, N. Sidorova, and W.M.P. van der Aalst. Discovering More Precise Process Models From Event Logs By Filtering Out Chaotic Activities. *Journal of Intelligent Information Systems*, 52(1):107-139, 2019.
32. W.M.P. van der Aalst, J. Carmona, T. Chatain, and B.F. van Dongen. A Tour in Process Mining: From Practice to Algorithmic Challenges. In M. Koutny, L. Pomello, and L.M. Kristensen, editors, *Transactions on Petri Nets and Other Models of Concurrency (ToPNoC 14)*, volume 11970 of *Lecture Notes in Computer Science*, pages 1-35. Springer-Verlag, Berlin, 2019.
33. J. Mendling, I. Weber, W.M.P. van der Aalst, J. vom Brocke, C. Cabanillas, F. Daniel, S. Debois, C. Di Ciccio, M. Dumas, S. Dustdar, A. Gal, L Garcia-Banuelos, G. Governatori, R. Hull, M. La Rosa, H. Leopold, F. Leymann, J. Recker, M. Reichert, H.A. Reijers, S. Rinderle-Ma, A. Solti, M. Rosemann, S. Schulte, M. Singh, T. Slaats, M. Staples, B. Weber, M. Weidlich, M. Weske, X. Xu, and L. Zhu. Blockchains for Business Process Management: Challenges and Opportunities. *ACM Transactions on Management Information Systems*, 9(1):1-16, 2018.
34. Alfredo Bolt, Massimiliano de Leoni, and W.M.P. van der Aalst. Process Variant Comparison: Using Event Logs to Detect Differences in Behavior and Business Rules. *Information Systems*, 74(1):53-66, 2018.
35. F. Mannhardt, M. de Leoni, H.A. Reijers, W.M.P. van der Aalst, and P.J. Toussaint. Guided Process Discovery: A Pattern-Based Approach. *Information Systems*, 76:1-18, 2018.
36. S. Sakr, Z. Maamar, A. Awad, B. Benatallah, and W.M.P. van der Aalst. Business Process Analytics and Big Data Systems: A Roadmap to Bridge the Gap. *IEEE Access*, 6:77308-77320, 2018.
37. W.M.P. van der Aalst, J. Becker, M. Bichler, H.U. Buhl, J. Dibbern, U. Frank, U. Hasenkamp, A. Heinzl, O. Hinz, K.L. Hui, M. Jarke, D. Karagiannis, N. Kliewer, W. Koenig, J. Mendling, P. Mertens, M Rossi, S Voss, C. Weinhardt, R. Winter, and J. Zdravkovic. Views on the Past, Present, and Future of Business and Information Systems Engineering. *Business and Information Systems Engineering*, 60(6):443-477, 2018.
38. N. Tax, B. Dalmas, N. Sidorova, W.M.P. van der Aalst, and S. Norre. Interest-Driven Discovery of Local Process Models. *Information Systems*, 77:105-117, 2018.
39. W.J. Jonathan Lee, H.M.W. Verbeek, J. Munoz-Gama, W.M.P. van der Aalst, and M. Sepulveda. Recomposing Conformance: Closing the Circle on Decomposed Alignment-Based Conformance Checking in Process Mining. *Information Sciences*, 466:55-91, 2018.
40. M. Alizadeh, X. Lu, D. Fahland, N. Zannone, and W.M.P. van der Aalst. Linking Data and Process Perspectives for Conformance Analysis. *Computers and Security*, 73:172-193, 2018.
41. N. Tax, X. Lu, N. Sidorova, D. Fahland, and W.M.P. van der Aalst. The Imprecisions of Precision Measures in Process Mining. *Information Processing Letters*, 135:1-8, 2018.
42. S.J. van Zelst, B.F. van Dongen, W.M.P. van der Aalst, and H.M.W Verbeek. Discovering Workflow Nets Using Integer Linear Programming. *Computing*, 100(5):529-556, 2018.
43. S.J. van Zelst, B.F. van Dongen, and W.M.P. van der Aalst. Event Stream-Based Process Discovery Using Abstract Representations. *Knowledge and Information Systems*, 54(2):407-435, 2018.
44. S.J. van Zelst, A. Bolt, M. Hassani, B.F. van Dongen, and W.M.P. van der Aalst. Online Conformance Checking: Relating Event Streams to Process Models Using Prefix-Alignments. *International Journal of Data Science and Analytics*, 8:269-284, 2019.
45. S.J.J. Leemans, D. Fahland, and W.M.P. van der Aalst. Scalable Process Discovery and Conformance Checking. *Software and Systems Modeling*, 17(2):599-631, 2018.
46. W.M.P. van der Aalst. Spreadsheets for Business Process Management: Using Process Mining To Deal With "Events" Rather Than "Numbers". *Business Process Management Journal*, 24(1):105-127, 2018.
47. W.M.P. van der Aalst. Process Discovery from Event Data: Relating Models and Logs Through Abstractions. *WIREs Data Mining and Knowledge Discovery*, 8(3), 2018.
48. A.A. Mitsyuk, I.A. Lomazova, and W.M.P. van der Aalst. Using event logs for local correction of process models. *Automatic Control and Computer Sciences*, 51(7):709-723, 2017.

49. H.M.W. Verbeek, W.M.P. van der Aalst, and J. Munoz-Gama. Divide and Conquer: A Tool Framework for Supporting Decomposed Discovery in Process Mining. *The Computer Journal*, 60(11):1649-1674, 2017.
50. A. Polyvyanyy, C. Ouyang, A. Barros, and W.M.P. van der Aalst. Process querying: Enabling Business Intelligence Through Query-Based Process Analytics. *Decision Support Systems*, 100:41-56, 2017.
51. W.Z. Low, W.M.P. van der Aalst, A.H.M. ter Hofstede, M.T. Wynn, and J. De Weerd. Change Visualisations: Analysing the Resource and Timing Differences between Two Event Logs. *Information Systems*, 65:106-123, 2017.
52. S. Suriadi, M.T. Wynn, J. Xu, W.M.P. van der Aalst, and A.H.M. ter Hofstede. Discovering Work Prioritisation Patterns From Event Logs. *Decision Support Systems*, 100:77-92, 2017.
53. M.T. Wynn, E. Poppe, J. Xu, A.H.M. ter Hofstede, R. Brown, A. Pini, and W.M.P. van der Aalst. ProcessProfiler3D: A Visualisation Framework for Log-Based Process Performance Comparison. *Decision Support Systems*, 100:93-108, 2017.
54. M. van Eck, M. Firat, W. Nuijten, N. Sidorova, and W.M.P. van der Aalst. Human Performance-Aware Scheduling and Routing of a Multi-Skilled Workforce. *Complex Systems Informatics and Modeling Quarterly*, 12:1-21, 2017.
55. A. Pika, Michael Leyer, M.T. Wynn, C.J. Fidge, A.H.M. ter Hofstede, and W.M.P. van der Aalst. Mining Resource Profiles from Event Logs. *ACM Transactions on Management Information Systems*, 8(1):1:1-1:30, 2017.
56. A.A. Mitsyuk, I.S. Shugurov, A.A. Kalenkova, and W.M.P. van der Aalst. Generating event logs for high-level process models. *Simulation Modelling Practice and Theory*, 74:1-16, 2017.
57. G. Li and W.M.P. van der Aalst. A Framework for Detecting Deviations in Complex Event Logs. *Intelligent Data Analysis*, 21(4):759-779, 2017.
58. M. La Rosa, W.M.P. van der Aalst, M. Dumas, and F.P. Milani. Business Process Variability Modeling: A Survey. *ACM Computing Surveys*, 50(1):2:1-2:45, 2017.
59. A. Polyvyanyy, W.M.P. van der Aalst, A.H.M. ter Hofstede, and M. Wynn. Impact-Driven Process Model Repair. *ACM Transactions on Software Engineering and Methodology*, 25(4):28:1-28:60, 2017.
60. G. Acampora, A. Vitiello, B. Di Stefano, W. van der Aalst, C. Günther, and E. Verbeek. IEEE 1849: The XES Standard - The Second IEEE Standard Sponsored by IEEE Computational Intelligence Society. *IEEE Computational Intelligence Magazine*, 12(2):4-8, 2017.
61. W.Z. Low, S.K.L.M. vanden Broucke, M.T. Wynn, A.H.M. ter Hofstede, J. De Weerd, and W.M.P. van der Aalst. Revising History for Cost-Informed Process Improvement. *Computing*, 98(9):895-921, 2016.
62. N. Tax, N. Sidorova, R. Haakma, and W.M.P. van der Aalst. Mining local process models. *Journal of Innovation in Digital Ecosystems*, 3(2):183-196, 2016.
63. R. Engel, W. Krathu, M. Zapletal, C. Pichler, J.C. Bose, W.M.P. van der Aalst, H. Werthner, and C. Huemer. Analyzing Inter-Organizational Business Processes. *Information Systems and e-Business Management*, 14(3):577-612, 2016.
64. F. Mannhardt, M. de Leoni, H.A. Reijers, and W.M.P. van der Aalst. Balanced Multi-Perspective Checking of Process Conformance. *Computing*, 98(4):407-437, 2016.
65. H.A. Reijers, I.T.P. Vanderfeesten, and W.M.P. van der Aalst. The Effectiveness of Workflow Management Systems: A Longitudinal Study. *International Journal of Information Management*, 36(1):126-141, 2016.
66. W.M.P. van der Aalst, M. La Rosa, and F.M. Santoro. Process Management: Don't Forget to Improve the Process! *Business and Information Systems Engineering*, 58(1):1-6, 2016.
67. C. Diamantini, L. Genga, D. Potena, and W.M.P. van der Aalst. Building Instance Graphs for Highly Variable Processes. *Expert Systems With Applications*, 59:101-118, 2016.
68. S. Suriadi, C. Ouyang, W.M.P. van der Aalst, and A.H.M. ter Hofstede. Event Interval Analysis: Why Do Processes Take Time? *Decision Support Systems*, 79:77-98, 2015.

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70. W.M.P. van der Aalst and E. Damiani. Processes Meet Big Data: Connecting Data Science with Process Science. *IEEE Transactions on Services Computing*, 8(6):810-819, 2015.
71. A. Bolt, M. de Leoni, and W.M.P. van der Aalst. Scientific Workflows for Process Mining: Building Blocks, Scenarios, and Implementation. *International Journal on Software Tools for Technology Transfer*, 18(6):607-628, 2016.
72. A.A. Kalenkova, W.M.P. van der Aalst, I.A. Lomazova, and V.A. Rubin. Process Mining Using BPMN: Relating Event Logs and Process Models. *Software and Systems Modeling*, 16(4):1019-1048, 2017.
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78. D. Fahland and W.M.P. van der Aalst. Model Repair: Aligning Process Models to Reality. *Information Systems*, 47:220-243, January 2015.
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84. W.M.P. van der Aalst. Geschäftsprozessmodellierung: Die "Killer-Applikation" für Petrinetze. *Informatik-Spektrum*, 37(3):191-198, 2014.
85. R.P. Jagadeesh Chandra Bose, W.M.P. van der Aalst, I. Zliobaite, and M. Pechenizkiy. Dealing With Concept Drifts in Process Mining. *IEEE Transactions on Neural Networks and Learning Systems*, 25(1):154-171, 2014.
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