

Curriculum Vitae

Personal Information

FAMILY NAME, FIRST NAMES	van der Aalst, Willibrordus Martinus Pancratius (Wil)
ACADEMIC TITLES	Univ. Prof. Prof. h. c. Dr. Dr. h. c. Ir.
NATIONALITY	Dutch
DATE OF BIRTH	29 January 1966 (Eersel, The Netherlands)
E-MAIL	wvdaalst@pads.rwth-aachen.de
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EDUCATION

Sept 1988	Ph.D. in Mathematics
- Sept 1992	Eindhoven University of Technology, Eindhoven, The Netherlands Thesis: "Timed Colored Petri Nets and Their Application to Logistics" Advisors: prof.dr. J. Wessels and prof.dr. K.M. van Hee
Sept 1984	Bachelor and Master in Computer Science
- Aug 1988	Eindhoven University of Technology, Eindhoven, The Netherlands Master thesis: "Specification and Simulation using ExSpect"

CURRENT POSITIONS

since 2018	Professor RWTH Aachen University RWTH Aachen University, Aachen, Germany <ul style="list-style-type: none"> • Chair of the Process and Data Science group (Lehrstuhl für Informatik 9) • Alexander von Humboldt Professorship • Principal Investigator and Deputy CEO of the Cluster of Excellence Internet of Production (IoP) • Vice-Chair of the Steering Committee of the RWTH Profile Area Information & Communication Technology (ICT) • Board of Directors of the RWTH Artificial Intelligence Center • Board of Directors of the Center for Simulation and Data Science (JARA CSD)
since 2018	Head of PM Department Fraunhofer FIT Leading the process mining group at the Fraunhofer Institute for Applied Information Technology (FIT), Sankt Augustin, Germany
since 2015	Member of the Board of Governors Tilburg University Supervision of the executive board and chair of the committee responsible for research and teaching of Tilburg University, Tilburg, The Netherlands

OTHER ONGOING (UNPAID) PROFESSIONAL ACTIVITIES (EXCLUDING FELLOWSHIPS)

- since 2002 **Adjunct Professor QUT**
Queensland University of Technology (QUT), Brisbane, Australia
- since 2009 **Chair of the IEEE Task Force on Process Mining**
Leading the task force and member of the IEEE CIS Technical Committee
- since 2011 **Member of the Advisory Board of Fluxicon**
Fluxicon, Eindhoven, The Netherlands
- since 2016 **Chief Scientific Advisor of Celonis**
Celonis, München, Germany
- since 2016 **Chief Scientific Advisor to Process Mining**
UiPath, New York, USA
- since 2016 **FBK Affiliated Fellow**
Fondazione Bruno Kessler, Trento, Italy
- since 2017 **Member of the Council for Physics and Technical Sciences of the Royal Netherlands Academy of Arts and Sciences**
KNAW, Amsterdam, The Netherlands
- ongoing **Membership of Various Steering Committees**
- Member of the steering committee of the International Conference Series on Application and Theory of Petri nets (since 2003)
 - Member of the steering committee of the International Conference Series on Business Process Management (since 2003, chair from 2003-2017)
- ongoing **Membership of Various Editorial Boards**
- Vice editor-in-chief of Business & Information Systems Engineering (since 2015)
 - Series Editor of Lecture Notes in Business Information Processing (since 2006)
 - Associate editor of Transactions on Petri Nets and Other Models of Concurrency (since 2008)
 - Field editor/associate editor of Computing (since 2012)
 - Member of the advisory board of Distributed and Parallel Databases (since 2017)
 - Associate editor of Computers in Industry (since 2000)
 - Associate editor of SN Computer Science (since 2019)
 - Member of the senior editorial board of the Annals of Computer Science and Information Systems (ACSIS) (since 2015)
 - Associate editor of the International Journal of Business Process Integration and Management (since 2006)
 - Senior editor of the International Journal on Enterprise Modelling and Information Systems Architectures (since 2005)
 - Member of the editorial board of Computer Supported Cooperative Work (since 2009)
 - Member of the editorial board of Software and Systems Modeling (since 2012)

PREVIOUS POSITIONS

- 2006 -2018 **Distinguished University Professor TU/e**
Chair of the Architecture of Information Systems (AIS) group of the Department of Mathematics and Computer Science of Eindhoven University of Technology (TU/e), Netherlands
- 2013 -2018 **Scientific Director DSC/e**
Scientific director and co-founder of the Data Science Center Eindhoven (DSC/e)
- 2012 - 2015 **Academic supervisor PAIS Lab and Professor HSE**
Scientific Director and co-founder of the International Laboratory of Process-Aware Information Systems (PAIS Lab), National Research University, Higher School of Economics, Moscow
- 2000 -2010 **Full Professor TU/e**
Chair of the Information Systems (IS) group of Eindhoven University of Technology, Netherlands (from 2000-2006). Professor in the Department of Mathematics and Computer Science and the Technology Management Department. Director of the Business Information Systems master.
- 1999 -2010 **Visiting Professor University of Colorado**
Working with prof. Skip Ellis, University of Colorado, Boulder, USA (12 months)
- 1998 -1999 **Visiting Professor University of Georgia**
Working with prof. Amit Sheth, University of Georgia Athens, USA (6 months)
- 1998 -1999 **Visiting Professor AIFB Karlsruhe**
Working with prof. Jörg Desel, University of Karlsruhe, Germany (6 months)
- 1992 -1999 **Assistant / Associate Professor TU/e**
Chair of the Specification and Modeling of Information Systems group at the Department of Mathematics and Computer Science of Eindhoven University of Technology (TU/e), Netherlands. Member of the management team of the research institute BETA.
- 1998 -1999 **Research assistant TNO and TU/e**
Working for the TNO institute IPL while doing a PhD at Eindhoven University of Technology (TU/e), Netherlands. Member of the TASTE working group
- 2018 **Membership of Various Editorial Boards**
- Associate editor of the IEEE Transactions on Systems, Man, and Cybernetics, Part A: Systems and Humans (IEEE-SMC-A) (2011-2013)
 - Member of the editorial board of Distributed and Parallel Databases (2008-2018)
 - Associate editor of IEEE Transactions on Services Computing (2008-2016)
 - Associate editor of IEEE Transactions on Automation Science and Engineering (2008-2010)
 - Associate editor of IEEE Transactions on Industrial Informatics (2009-2013)

PUBLICATION RECORD

H-INDEX	155 (Google Scholar, ranked 14 th worldwide, see http://www.guide2research.com/scientists/)
CITATIONS	> 110.000 (Google Scholar)
BOOKS	22 (10 authored books and 12 edited books)
REVIEWED JOURNAL PAPERS	> 245 (237 indexed by DBLP)
REVIEWED CONFERENCE/WORKSHOP PAPERS	> 550 (482 indexed by DBLP)
BOOK CHAPTERS	> 80 (22 indexed by DBLP)
OTHER PUBLICATIONS (EDITORIALS, REPORTS, ETC.)	> 200

FELLOWSHIPS AND AWARDS

2021	IEEE Fellow Institute of Electrical and Electronics Engineers (IEEE)
2020	ACM Fellow Association for Computing Machinery (ACM)
2020	IFIP Fellow International Federation for Information Processing (IFIP)
2020	Elected member of the North Rhine-Westphalian Academy of Sciences, Humanities and the Arts , Germany
2018	Alexander-von-Humboldt Professor Award (five million euro), Germany
2013	Distinguished University Professor of TU/e (Only five professors had this special position at Eindhoven University of Technology)
2008	Elected member of the Royal Holland Society of Sciences and Humanities (Koninklijke Hollandsche Maatschappij der Wetenschappen), NL
2014	Elected member of the Royal Netherlands Academy of Arts and Sciences (Koninklijke Nederlandse Akademie van Wetenschappen), NL
2011	Elected member of Academia Europaea (The Academy of Europe)
2013	Honorary guest professor at Tsinghua University, Beijing, China
2012	Honorary doctorate from Hasselt University , Hasselt, Belgium
2015	Honorary professorship from Higher School of Economics , Moscow, Russia
2000 - 2019	Over 20 best paper and most influential paper awards (BPM, SoSym, ATPN, ICPM, BIS, etc.)

TEACHING ACTIVITIES

1992 -	<p>Master courses: Introduction to Data Science, Advanced Process Mining, Business Process Management Systems, Workflow Management, and Simulation</p> <p>Bachelor courses: Business Process Intelligence, Introduction to Process Mining, Perspectives on Data Science, Business Information Systems, Systems Engineering, Process Modeling, Business Process Management, and Specification of Information Systems</p> <p>Online courses: Process Mining: Data science in Action, Coursera Massive Open Online Course (>125.000 registered participants)</p> <p>Course and curriculum development: All of the above courses were developed from scratch and taught for several years. Leadership roles (e.g., scientific director) in computer science, data science, and business information systems programs at the bachelor and master level</p>
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Publications Wil van der Aalst Until 2020

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 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.
3. N. Russell, W.M.P. van der Aalst, and A. ter Hofstede. *Workflow Patterns: The Definitive Guide*. MIT Press, Cambridge, MA, 2016.
4. W.M.P. van der Aalst. *Process Mining: Data Science in Action*. Springer-Verlag, Berlin, 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.

Journal Papers

1. W.M.P. van der Aalst and A. Berti. Discovering Object-Centric Petri Nets. *Fundamenta Informaticae*, 175(1-4):1-40, 2020.
2. 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*, 62(7):2539-2575, 2020.
3. M. Fani Sani, S.J. van Zelst, and W.M.P. van der Aalst. Improving the Performance of Process Discovery Algorithms By Instance Selection. *Computer Science and Information Systems*, 17(3):927-958, 2020.
4. M. Pegoraro, M.S. Uysal, and W.M.P. van der Aalst. Efficient Time and Space Representation of Uncertain Event Data. *Algorithms*, 13(11):285:1-27, 2020.
5. L. Cheng, B.F. van Dongen, and W.M.P. van der Aalst. Scalable Discovery of Hybrid Process Models in a Cloud Computing Environment. *IEEE Transactions on Services Computing*, 13(2):368-380, 2020.
6. A. Pika, M. Wynn, S. Budiono, A. ter Hofstede, W.M.P. van der Aalst, and H. Reijers. Privacy-Preserving Process Mining in Healthcare. *Environmental Research and Public Health*, 17(5):1216:1-18, 2020.
7. G. Schuh, A. Gutzlaff, S. Schmitz, and W.M.P. van der Aalst. Data-Based Description of Process Performance in End-to-End Order Processing. *CIRP Annals*, 69(1):381-384, 2020.
8. W.M.P. van der Aalst. Lucent Process Models and Translucent Event Logs. *Fundamenta Informaticae*, 169(1-2):151-177, 2019.
9. 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.
10. 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.

11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.

22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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(3):269-284, 2019.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.

38. 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.
39. 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.
40. 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.
41. 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.
42. 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.
43. 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.
44. 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.
45. 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.
46. 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.
47. 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.
48. 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.
49. 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.
50. 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.
51. 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.
52. 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.
53. A. Pika, W.M.P. van der Aalst, M.T. Wynn, C.J. Fidge, and A.H.M. ter Hofstede. Evaluating and Predicting Overall Process Risk Using Event Logs. *Information Sciences*, 352-353:98-120, 2016.
54. 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.

55. 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.
56. 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.
57. R. Conforti, M. de Leoni, M. La Rosa, W.M.P. van der Aalst, and A.H.M. ter Hofstede. A Recommendation System for Predicting Risks Across Multiple Business Process Instances. *Decision Support Systems*, 69:1-19, 2015.
58. L.T. Ly, F.M. Maggi, M. Montali, S. Rinderle-Ma, and W.M.P. van der Aalst. Compliance Monitoring in Business Processes: Functionalities, Application, and Tool Support. *Information Systems*, 54:209-234, 2015.
59. M. Rovani, F.M. Maggi, M. de Leoni, and W.M.P. van der Aalst. Declarative Process Mining in Healthcare. *Expert Systems With Applications*, 42(23):9236-9251, 2015.
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