

# 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	<b>Ph.D. in Mathematics</b>
- 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	<b>Bachelor and Master in Computer Science</b>
- Aug 1988	Eindhoven University of Technology, Eindhoven, The Netherlands Master thesis: "Specification and Simulation using ExSpect"

## CURRENT POSITIONS

since 2018	<b>Professor RWTH Aachen University</b> RWTH Aachen University, Aachen, Germany <ul style="list-style-type: none"> <li>• Chair of the Process and Data Science group (Lehrstuhl für Informatik 9)</li> <li>• Alexander von Humboldt Professorship</li> <li>• Co-speaker and Principal Investigator of the DFG Cluster of Excellence - Internet of Production (IoP)</li> <li>• Vice-Chair of the Steering Committee of the RWTH Profile Area ICT</li> <li>• Founding Director of the RWTH Artificial Intelligence Center</li> </ul>
since 2021	<b>Chief Scientist at Celonis</b> Guiding R&D activities, product strategy, and academic alliance, München, Germany
since 2018	<b>Lead Scientist at Fraunhofer FIT</b> Guiding process mining research at Fraunhofer FIT, Sankt Augustin, Germany
since 2015	<b>Member of the Board of Governors Tilburg University</b> 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**

- since 2002      **Adjunct Professor QUT**  
Queensland University of Technology (QUT), Brisbane, Australia
- since 2016      **FBK Affiliated Fellow**  
Fondazione Bruno Kessler, Trento, Italy
- 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)
  - Member of the IEEE Task Force on Process Mining (chair from 2009-2021)
- 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**

- 2011-2021      **Member of the Advisory Board of Fluxicon**  
Fluxicon, Eindhoven, The Netherlands
- 2016-2021      **Chief Scientific Advisor of Celonis**  
Celonis, München, Germany
- 2016-2021      **Chief Scientific Advisor of ProcessGold/UiPath**  
ProcessGold/UiPath, Eindhoven, NL/New York, USA
- 2017-2021      **Member of the Council for Physics and Technical Sciences of the Royal Netherlands Academy of Arts and Sciences**  
KNAW, Amsterdam, The Netherlands
- 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, Russia

- 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
- 2008-2021 **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	<b>161</b> (Google Scholar, ranked 17 <sup>th</sup> worldwide, see <a href="http://www.research.com">www.research.com</a> )
CITATIONS	> <b>121.000</b> (Google Scholar)
BOOKS	<b>22</b> (10 authored books and 12 edited books)
REVIEWED JOURNAL PAPERS	> <b>265</b> (251 indexed by DBLP)
REVIEWED CONFERENCE/WORKSHOP PAPERS	> <b>580</b> (519 indexed by DBLP)
BOOK CHAPTERS	> <b>80</b> (22 indexed by DBLP)
OTHER PUBLICATIONS (EDITORIALS, REPORTS, ETC.)	> <b>270</b>

**FELLOWSHIPS AND AWARDS**

2021	<b>IEEE Fellow</b> Institute of Electrical and Electronics Engineers (IEEE)
2020	<b>ACM Fellow</b> Association for Computing Machinery (ACM)
2020	<b>IFIP Fellow</b> International Federation for Information Processing (IFIP)
2020	Elected member of the <b>North Rhine-Westphalian Academy of Sciences, Humanities and the Arts</b> , Germany
2018	<b>Alexander-von-Humboldt Professor Award</b> (five million euro), Germany
2013	<b>Distinguished University Professor of TU/e</b> (Only five professors had this special position at Eindhoven University of Technology)
2008	Elected member of the <b>Royal Holland Society of Sciences and Humanities</b> (Koninklijke Hollandsche Maatschappij der Wetenschappen), NL
2014	Elected member of the <b>Royal Netherlands Academy of Arts and Sciences</b> (Koninklijke Nederlandse Akademie van Wetenschappen), NL
2011	Elected member of <b>Academia Europaea</b> (The Academy of Europe)
2013	Honorary guest professor at Tsinghua University, Beijing, China
2012	<b>Honorary doctorate</b> from <b>Hasselt University</b> , Hasselt, Belgium
2015	<b>Honorary professorship</b> from <b>Higher School of Economics</b> , Moscow, Russia
2000 - now	<b>Over 25 best paper and most influential paper awards</b> (BPM, SoSym, ATPN, ICPM, BIS, etc.)

**TEACHING ACTIVITIES**

1992 - now	<p><b>Master courses:</b> Introduction to Data Science, Advanced Process Mining, Business Process Management Systems, Workflow Management, and Simulation</p> <p><b>Bachelor courses:</b> 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><b>Online courses:</b> Four open online process mining courses, e.g., <b>Process Mining: Data science in Action</b> (Coursera with &gt; 140.000 registered participants)</p> <p><b>Course and curriculum development:</b> 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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## 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 (EXCLUDING DUTCH JOURNALS)

1. V. Bloemen, S.J. van Zelst, W.M.P. van der Aalst, B.F. van Dongen, and J. van de Pol. Aligning Observed and Modelled Behaviour by Maximizing Synchronous Moves and Using Milestones. [INFORMATION SYSTEMS](#), 103:101456, 2022.
2. W.M.P. van der Aalst. Free-Choice Nets With Home Clusters Are Lucent. [FUNDAMENTA INFORMATICA](#), 181(4):273-302, 2021.
3. S.J.J. Leemans, W.M.P. van der Aalst, T. Brockhoff, and A. Polyvyanyy. Stochastic Process Mining: Earth Movers' Stochastic Conformance. [INFORMATION SYSTEMS](#), 102:101724, 2021.
4. M. Rafiei and W.M.P. van der Aalst. Group-Based Privacy Preservation Techniques for Process Mining. [DATA AND KNOWLEDGE ENGINEERING](#), 134:101908, 2021.
5. M. Pegoraro, M.S. Uysal, and W.M.P. van der Aalst. Conformance Checking Over Uncertain Event Data. [INFORMATION SYSTEMS](#), 102:101810, 2021.
6. D. Beverungen, J. Buijs, J. Becker, C. Di Ciccio, W.M.P. van der Aalst, C. Bartelheimer, J. vom Brocke, M. Comuzzi, K. Kraume, H. Leopold, M. Matzner, J. Mendling, N. Ogonek, T. Post, M. Resinas, K. Revoredo, Adela del-Rio-Ortega, M. La Rosa, F. Santoro, A. Solti, M. Song, A. Stein, M. Stierle, and V. Wolf. Seven Paradoxes of Business Process Management in a Hyper-Connected World. [BUSINESS AND INFORMATION SYSTEMS ENGINEERING](#), 63(2):145-156, 2021.
7. M. Fani Sani, S.J. van Zelst, and W.M.P. van der Aalst. The Impact of Biased Sampling of Event Logs on the Performance of Process Discovery. [COMPUTING](#), 103(6):1085-1104, 2021.
8. A. Berti and W.M.P. van der Aalst. A Novel Token-Based Replay Technique to Speed Up Conformance Checking and Process Enhancement. [TRANSACTIONS ON PETRI NETS AND OTHER MODELS OF CONCURRENCY](#), 15:1-26, 2021.
9. N. Martin, D. Fischer, G. Kerpedzhiev, K. Goel, S. Leemans, M. Röglinger, W.M.P. van der Aalst, M. Dumas, M. La Rosa, and M.T. Wynn. Opportunities and Challenges for Process Mining in Organizations: Results of a Delphi Study. [BUSINESS AND INFORMATION SYSTEMS ENGINEERING](#), 63(5):511-527, 2021.

10. W.M.P. van der Aalst. Hybrid Intelligence: To Automate or Not to Automate, That is the Question. [INTERNATIONAL JOURNAL OF INFORMATION SYSTEMS AND PROJECT MANAGEMENT](#), 9(2):5-20, 2021.
11. W.M.P. van der Aalst and A. Berti. Discovering Object-Centric Petri Nets. [FUNDAMENTA INFORMATICAЕ](#), 175(1-4):1-40, 2020.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. W.M.P. van der Aalst. Lucent Process Models and Translucent Event Logs. [FUNDAMENTA INFORMATICAЕ](#), 169(1-2):151-177, 2019.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
  28. 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.
  29. 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.
  30. S. Sakr, Z. Maamar, A. Awad, B. Benattallah, 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.
  31. 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.
  32. 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.
  33. 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.
  34. 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.
  35. 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.
  36. 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.
  37. 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.
  38. 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.
  39. 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.
  40. 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.
  41. 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.
  42. 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.



43. 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.
44. 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.
45. 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.
46. 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.
47. 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.
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