

Curriculum Vitae Mieke Jans

Mieke Jans

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Work experience

- Assistant professor at Hasselt University (since September 1, 2014)
- 80% (senior) manager at Deloitte Enterprise Risk Services (September 1, 2012 – August 31, 2014)
- 20% part-time assistant professor at Hasselt University (December 1, 2012 – August 31, 2014)
- 50% manager at Deloitte Enterprise Risk Services (December 1, 2009 – August 31, 2012)
- 50% post-doc researcher at Hasselt University (December 1, 2009 – August 31, 2012)
- PhD student at Hasselt University (2003-2009)

Research interests

My main research interests go to the nexus of auditing, information systems and business process management: process mining for auditing. My research agenda is inspired by challenges that stem from bringing these two worlds together. From a more technical point of view, I am interested in how process mining techniques, algorithms, and metrics could be aligned with an auditing mindset. From an auditing point of view, I am interested in investigating which aspects of auditing can be facilitated by process mining and under which circumstances.

Teaching

- Business Process Analytics: course in masters program 'Business Informatics'
- ERP systems: course in masters program 'Business Informatics'
- Business Information Systems: course in bachelors programs 'Business Informatics' and 'Business Engineer'
- IT Governance, Risk, and Compliance: course in masters program 'Business Informatics'

Before, between 2003 and 2009, I taught mainly accounting-related courses (financial accounting, management accounting, and financial analysis) in bachelor programs.

Professional service

2017	Program chair of the International Symposium of Accounting Information Systems, Valencia
Since 2017	Member of the Editorial Board of the International Journal of Accounting Information Systems
Since 2016	Member of the Program Committee of the Business Process Management conference, Hasselt University
Since 2014	Member of Education Program Committee for Bachelor and Master in Business Informatics, Hasselt University
Since 2014	Member of Education Program Committee for Master of Management, Hasselt University
Since 2014	Secretary and member of several Examination Boards, Hasselt University
Since 2012	Member of advisory board of the Continuous Auditing and Reporting Lab, Rutgers University

Awards

- 2015 **Bright Ideas Research** Award, issued by the New Jersey Policy Research Organization (NJPRO) and the Stillman School of Business at Seton Hall University
- 2014 **Bright Ideas Research** Award, issued by the New Jersey Policy Research Organization (NJPRO) and the Stillman School of Business at Seton Hall University
- **Best paper** award at 5th International Conference on Enterprise Systems, Accounting and Logistics, Heraklion, July 7-8, 2008:
"Business Process Mining for Internal Fraud Risk Reduction: Results of a Case Study" (co-authors: Nadine Lybaert and Koen Vanhoof)
- **Best paper** award at 11th European Conference on Accounting Information Systems, Maastricht, April 21-22, 2008:
"Internal Fraud Risk Reduction: Results of a Data Mining Case Study" (co-authors: Nadine Lybaert and Koen Vanhoof)

Collaboration with other research institutes

- Lead of the **Scientific Research Community of Process Mining**, granted with an FWO-fund (Flemish body to support scientific research)

This particular Research Community is led by UHasselt, involving UGent and KULeuven. Apart from the Flemish partners, 12 other research units over the world are united in this community: the universities of Amsterdam, Bozen, Catalunya, Denmark, Queensland, New Jersey, Tartu, Eindhoven, and Vienna, and research institutes Fondazione Bruno Kessler (Italy), Data61 (Australia).

See <https://srcprocessmining.com> for more information.

- Rutgers CAR-Lab, collaboration with prof. Miklos Vasarhelyi:
Member of Advisory Board
Research visits in September 2015, November 2015, and December 2016
- WU Vienna, collaboration with prof. Jan Mendling:
Research visits in December 2015, February/March 2016, March 2017, March 2018

Invited seminars/presentations (last 5 years)

- Panelist on plenary opening session of the International Symposium on Auditing Research (June 2018)
- Research talk at WU Vienna, March 12, 2018: "The auditor as oracle when testing process controls"
- Keynote of Network for AIS Research in the Netherlands (NAIS) (Business University Neijenrode, november 29, 2017)
- Workshop 'Event log building' at Process mining camp (Fluxicon) (Eindhoven, juni 2017)
- Data Science Community Meet-up: 'How to build an event log', Brussels, October 20, 2016
- The Rutgers Accounting Information Systems Seminars, Rutgers University CAR-Lab, New Jersey, September 18, 2015:
"Process mining for auditing – From relational database to event log"
- Introduction in Process Mining for Auditing - Presentation on the international annual Audit conference for internal auditors within AXA at Malta (November 2014)
- Presentation on the academic opening of the Post-master Accounting course at Tilburg University (September 5, 2014, Tilburg University)

Publications

- Jans M. and Soffer P. (2018) "From Relational Database to Event Log: Decisions with Quality Impact". In: Teniente E., Weidlich M. (eds) Business Process Management Workshops. BPM 2017. **Lecture Notes in Business Information Processing**, vol 308. Springer, Cham
- Jans, Mieke J. and Hosseinpour, Marzie (2017) "Process mining-technieken voor internecontroletoetsen - mogelijkheden nu en in de toekomst.", **Maandblad voor Accountancy en Bedrijfseconomie**, 91(3/4), p. 90-95.
- Niels Martin, Marijke Swennen, Benoît Depaire, Mieke Jans, Koen Vanhoof, and An Caris (2017) "Retrieving batch organization of work insights from event logs", **Decision Support Systems** 100, p. 119-128
- Creemers, Mathijs and Jans, Mieke J. (2017) "Leveraging process mining techniques for up-to-date resource profiles". In: Gulden, Jens; Nurcan, Selmin; Reinhartz-Berger, Iris; Guédria, Wided; Bera, Palash; Guerreiro, Sérgio; Fellman, Michael; Weidlich, Matthias (Ed.). BPMDS 2017 Radar, EMMSAD 2017 Radar, and EMISA 2017 Workshop Proceedings, CEUR Workshop Proceedings, 1859, p. 143-147.
- Mathijs Creemers, Mieke Jans, (2016) "Social Mining as a Knowledge Management Solution" In: España, Sergio; Ivanović, Mirjana; Savić, Miloš (Ed.). Proceedings of the CAiSE'16 Forum at the 28th International Conference on Advanced Information Systems Engineering (CAiSE 2016), p. 57-64. (CEUR Workshop Proceedings, 1612)
- Marijke Swennen, Niels Martin, Niels, Gert Janssenswillen, Mieke Jans, Benoît Depaire, An Caris, Koen Vanhoof, (2016) "Capturing resource behaviour from event logs". In: Ceravolo, Paolo; Guetl, Christian; Rinderle-Ma, Stefanie (Ed.). Proceedings of the 6th International Symposium on Data-driven Process Discovery and Analysis (SIMPDA), RWTH Aachen University, p. 130-134. (CEUR Workshop Proceedings, 1757)
- Mehrnush Hosseinpour, Mieke Jans, (2016) "Categorizing Identified Deviations for financial Statements Auditing" In: Ceravolo, Paolo; Guetl, Christian; Rinderle-Ma, Stefanie (Ed.). Proceedings of the 6th International Symposium on Data-driven Process Discovery and Analysis (SIMPDA), p. 125-129 (CEUR Workshop Proceedings, 1757)

- Gert Janssenswillen , Marijke Swennen, Benoît Depaire, Mieke Jans, Koen Vanhoof, (2015) "Enabling Event-data Analysis in R – Demonstration"
In: Ceravolo, Paolo; Rinderle-Ma, Stefanie (Ed.). Proceedings of the 5th International Symposium on Data-driven Process Discovery and Analysis (SIMPDA), p.189-198 (CEUR Workshop Proceedings, 1527)
- Niels Martin, Marijke Swennen, Benoît Depaire, Mieke Jans, An Caris, Koen Vanhoof, (2015) "Batch Processing: Definition and Event Log Identification"
In: Ceravolo, Paolo; Rinderle-Ma, Stefanie (Ed.). Proceedings of the 5th International Symposium on Data-driven Process Discovery and Analysis (SIMPDA), p.137-140 (CEUR Workshop Proceedings, 1527)
- Marijke Swennen, Gert Janssenswillen, Mieke Jans , Benoît Depaire , Koen Vanhoof, (2015) "Capturing Process Behavior with Log-Based Process Metrics"
In: Ceravolo, Paolo; Rinderle-Ma, Stefanie (Ed.). Proceedings of the 5th International Symposium on Data-driven Process Discovery and Analysis (SIMPDA), p. 141-144 (CEUR Workshop Proceedings, 1527)
- Jans Mieke, Alles Michael, Vasarhelyi Miklos, (2014) "A Field Study on the Use of Process Mining of Event Logs as an Analytical Procedure in Auditing", **The Accounting Review**, Vol. 89, No. 5, pp. 1751-1773. *SSCI Impact factor: 2.319*
- Jans Mieke, Alles Michael, Vasarhelyi Miklos, (2013) "The case for process mining in auditing: Sources of value added and areas of application", **International Journal of Accounting Information Systems** 14, 1-20 - *SSCI Impact factor: 1.219*
- Depaire Benoît, Swinnen Jo, Jans Mieke, Vanhoof Koen, (2012) "A Process Deviation Analysis Framework", Published in: **LNBIP** 132, pp 701-706, Business Process Management Workshops - BPM 2012 International Workshops, Tallinn, Estonia, September 3, 2012. Revised Papers
- Jans Mieke, van der Werf Jan Martijn, Lybaert Nadine, Vanhoof Koen, "A Business Process Mining Application for Internal Transaction Fraud Mitigation", **Expert Systems with Applications** 38 (2011), p.13351-13359 – *SCI Impact Factor:2.908*
- Jans Mieke, Depaire Benoît, Vanhoof Koen, "Does Process Mining Add to Internal Auditing: An Experience Report", Published in: **LNBIP** 81, Enterprise, Business-Process, and Information Systems Modelling, 12th International Conference BPMDS and 16th International Conference EMMSAD at CAiSE 2011, London, UK, June 20-21 (2011) - ISI proceedings
- Jans Mieke, "Process Mining in Auditing: From Current Limitations to Future Challenges", Published in: **LNBIP** 100, pp 394-397, Business Process Management Workshops - BPM 2011 International Workshops, Clermont-Ferrand, France, August 29 (2011) – ISI proceedings
- Swinnen Jo, Depaire Benoît, Jans Mieke, Vanhoof Koen, "A process deviation analysis – Case study", Published in: **LNBIP** 99 pp 87-98, Business Process Management Workshops - BPM 2011 International Workshops, Clermont-Ferrand, France, August 29 (2011) – ISI proceedings
- Damer Nour, Jans Mieke, Depaire Benoît, Vanhoof Koen, "Making Compliance Measures Actionable: A New Compliance Analysis Approach", Published in: **LNBIP** 99 pp 159-164, Business Process Management Workshops - BPM 2011 International Workshops, Clermont-Ferrand, France, August 29 (2011) – ISI proceedings
- Jans Mieke, Lybaert Nadine, Vanhoof Koen, "Data Mining and Economic Crime Risk Management" , Published in: *Koyuncugil, Ali Serhan & Ozgulbas, Nermin (Ed.) **Surveillance technologies and early warning systems: Data mining applications for risk detection**, (2011) p. 205-227.*
- Jans Mieke, Lybaert Nadine, Vanhoof Koen, "Internal Fraud Risk Reduction: Results of a Data Mining Case Study", **International Journal of Accounting Information Systems** 11 (2010) 17-41, *SSCI Impact factor: 1.219*
- Jans Mieke, Lybaert Nadine, Vanhoof Koen, "Internal Fraud Risk Reduction by Data Mining and Process Mining", **Accountancy & Bedrijfskunde** 30(1) (2010) pp. 21-32
- Jans Mieke, Lybaert Nadine, Vanhoof Koen, "A Framework for Internal Fraud Risk Reduction at IT Integrating Business Processes: The IFR² Framework", **The International Journal of Digital Accounting Research** 9 (2009) 1-29
- Jans Mieke, Lybaert Nadine, Vanhoof Koen, "Internal Fraud Risk Reduction: Results of a Data Mining Case Study", Proceedings of 10th International Conference on Enterprise Information Systems, Barcelona, June 12-16 (2008) – **ISI Proceedings**

Conferences (last 5 years)

- 30th **International Conference on Advanced Information Systems Engineering (CAiSE)**, Tallinn, June 11-15, 2018
- 24th Annual **International Symposium on Audit Research (ISAR)**, Maastricht, June 7-8, 2018 (panelist at opening session)
- 5th **Belgian Process Mining Research Day**, Leuven, June 1, 2018
- 8th meeting of **the Network for AIS Research in the Netherlands (NAIS)**, Neijenrode, november 29, 2017
- 41st **World Continuous Auditing and Reporting Symposium**, Huelva, Spain, November 2017
- 15th **International Conference on Business Process Management**, Barcelona, September 2017, presentation at the workshop 'Quality Data for Process Analytics':
"From Relational Database to Event Log: Decisions with Quality Impact"
- BPMDS, workshop at the 29th **International Conference on Advanced Information Systems Engineering (CAiSE)**, Essen, June 2017
- **International Symposium on Accounting Information Systems (ISAIS)** (program chair), Valencia, May 8-9, 2017: "Closing the gap between process mining and continuous auditing research"
- 4th **Belgian Process Mining Research Day**, Gent, May 31, 2017
- 7th meeting of the **Network for AIS Research in the Netherlands (NAIS)**, Neijenrode, November 16, 2016: *"Empowering audit by data analytics, a focus on deviation mining"*
- 28th **International Conference on Advanced Information Systems Engineering**, Ljubljana, June 13-17, 2016
- 39th **Annual Congress of the European Accounting Association**, Maastricht, May 11-13, 2016: *"Auditor decisions during event log building for process mining – A first exploratory study"*
- 14th **European Academic Conference on Internal Audit and Corporate Governance**, Rotterdam, April 6-8, 2016:
"Auditor decisions during event log building for process mining – A first exploratory study"
- 3rd **Belgian Process Mining Research Day**, Hasselt, March 22, 2016 (co-organisor)
- 5th **International Symposium on Data-Driven Process Discovery and Analysis**, Vienna, December 9-11, 2015 (presentation of PhD students)
- 13th **International Conference on Business Process Management**, Innsbruck, September 1-3, 2015
- 35th **World Continuous Auditing and Reporting Symposium**, Newark, November 6-7, 2015:
"Process Mining for Auditing - From Relational Database to Event Log"
- 5th meeting of the **Network for AIS Research in the Netherlands (NAIS)**, Neijenrode, November 19, 2014
- 35th **Annual Congress of the European Accounting Association**, Ljubljana, May 9-11, 2012
- 24th **World Continuous Auditing and Reporting Symposium**, Malatya, Turkey, May 3-4, 2012