Curriculum vitæ **Prof. dr. Seppe K.L.M. vanden Broucke**

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Prof. dr. Seppe vanden Broucke is currently working as an associate professor at the Department of Business Informatics and Operations Management at UGent (Belgium) and is a guest lecturer at KU Leuven (Belgium). Seppe's research interests include machine learning, business analytics, and process mining. His work has been published in well-known international journals and presented at top conferences. Seppe received his PhD in Applied Economics at KU Leuven, Belgium in 2014. Seppe is co-holder of several research chairs, is the co-academic organizer of Postgraduate in Big Data & Analytics in Business and Management, and has authored several books on machine learning and data related topics.

Career Summary

UGent October 2019 – present – Associate professor at UGent

- Research and education at the Department of Business Informatics and Operations Management
- Co-authored book on Managing Model Risk

KU Leuven October 2019 – present – Guest lecturer at KU Leuven

- Holder of the "Smart Airport Operational Analytics" research chair sponsored by Brussels Airport (2018-2021 and 2022-2025)
- Holder of the "Predictive Process Mining for Financial Market Infrastructure Services" research chair sponsored by Euroclear (2023-2026)
- Holder of the "Real Estate Analytics (REA)" research chair sponsored by Fednot (2020-2022)
- Co-academic organizer of Postgraduate in Big Data & Analytics in Business and Management

KU Leuven September 2016 – September 2019 – Assistant professor at KU Leuven

- Co-beneficiary of FWO grant for project "Profit Driven Analytics: New Techniques and Applications" (G063217N, EUR 209.668,25)
- Co-authored book on Principles of Database Management (Cambridge University Press) and a book on Web Scraping (Apress)
- Project researcher in collaboration with KBC Group on the topic of fraud analytics; developed and lectured
 a serious business game for KBC University on big data, presented to top-300 management in KBC Group

KU Leuven November 2014 – August 2016 – Postdoctoral researcher at KU Leuven

- Co-authored book on Beginning Java Programming (Wiley Wrox series)
- Project researcher in collaboration with KBC Group on the topic of customer analytics
- Public speaker and trainings
- Peer reviewing journal papers, book proposals
- Maintaining various educational projects

KU Leuven September 2011 – October 2014 – PhD researcher at KU Leuven

- Thesis: Advances in Process Mining: Artificial Negative Events and Other Techniques (Accessible at: <u>http://www.seppe.net/phd.pdf</u>)
- Published in international journals and top conferences, experience with grant project writing and planning
- Travel experience (conferences, international bilateral research collaborations)
- Algorithmic programming, strong knowledge of data/process mining techniques and business process management

Hitpoint 2008 - present – Freelance Journalist at Hitpoint

- Freelance writing in entertainment industry
- Work against hard deadlines, travel experience (U.S., Europe, Asia), honed writing and language skills, dealt with journalists, developers, producers, PR

Freelance 2003 - present – Freelance Developer

- Created and designed multiple web sites and applications for variety of clients . •
 - Contributed to various open source projects. E.g. Tablix, Apache, others

AL-INVEST III 2005 - 2008 - Freelance Developer for European Commission AL-INVEST III Program

- Web application development and database administration, managed a large-scale Intranet application . developed over just one month serving hundreds of thousands of companies and chambers of commerce over Europe and Latin-America
- Dealt with concerns of businesses abroad (Latin-America, Europe)
- Involved in setting up presence at CeBIT fair, Hannover as an exhibitor .

Publications

Articles in Internationally Reviewed Academic Journals

Information Systems	Gunnarsson, B. R., vanden Broucke, S., & De Weerdt, J. (2024). LS-ICE: A Load State Intercase Encoding framework for improved predictive monitoring of business processes. Information Systems, 125, 102432.
Machine Learning	Ortega Vázquez, C., vanden Broucke, S. , & De Weerdt, J. (2024). Hellinger distance decision trees for PU learning in imbalanced data sets. Machine Learning, 113(7), 4547-4578.
Machine Learning	Verdonck, T., Baesens, B., Oskarsdottir, M., vanden Broucke, S. (2024). Special Issue on Advances in Feature Engineering - Editorial. Machine Learning.
Data Mining and Knowledge Discovery	Geerts, M., vanden Broucke, S. & De Weerdt, J. (2014). GeoRF: a geospatial random forest. Data Min Knowl Disc.
International Journal of GIS	Guo, Y., vanden Broucke, S. (2024). Enhancing geospatial prediction models with feature engineering from road networks: a graph-driven approach. International Journal of Geographical Information Science.
Information Systems	Peeperkorn, J., vanden Broucke, S. , De Weerdt, J. with Peeperkorn, J. (2024). Validation set sampling strategies for predictive process monitoring. Information Systems, 121, Art.No. ARTN 102330.
IEEE Access	Baesens, B., Adams, A., Pacheco-Ruiz, R., Baesens, A-S., vanden Broucke, S. (2023). Explainable Deep Learning to Classify Royal Navy Ships. Ieee Access, 1-1.
Expert Systems with Applications	Zhu, B., Qian, C., vanden Broucke, S. , Xiao, J., Li, Y. with Zhu, B. (2023). A bagging-based selective ensemble model for churn prediction on imbalanced data. Expert Systems with Applications, 227, Art.No. ARTN 120223.
Engineering Applications of AI	Peeperkorn, J., vanden Broucke, S. , De Weerdt, J. with Peeperkorn, J. (2023). Global conformance checking measures using shallow representation and deep learning. Engineering Applications of Artificial Intelligence, 123, Art.No. ARTN 106393.
ISPRS International Journal of Geo- Information	Geerts, M., Vanden Broucke, S. , De Weerdt, J. (2023). A Survey of Methods and Input Data Types for House Price Prediction. ISPRS International Journal of Geo-Information, 12 (5), 200-200.
Data Mining And Knowledge Discovery	Vazquez, C.O., vanden Broucke, S. , De Weerdt, J. with Vazquez (2023). A two-step anomaly detection based method for PU classification in imbalanced data sets. Data Mining And Knowledge Discovery, 37 (3), 1301-1325.
Information Sciences	Van der Schraelen, L., Stouthuysen, K., vanden Broucke, S. , Verdonck, T. with Verdonck, T. (corresp. author) (2023). Regularization oversampling for classification tasks: To exploit what you do not know. Information Sciences, 635, 169-194.
Machine Learning	Vazquez, C.O., vanden Broucke, S. , De Weerdt, J. with Vazquez (2023). Hellinger distance decision trees for PU learning in imbalanced data sets. Machine Learning.
IEEE TSC	Gunnarsson, B.R., vanden Broucke , S. , De Weerdt, J. with Gunnarsson (2023). A Direct Data Aware LSTM Neural Network Architecture for Complete Remaining Trace and Runtime Prediction. IEEE Transactions on Services Computing, 1-13.
Journal Of Intelligent Information Systems	Peeperkorn, J., vanden Broucke, S. , De Weerdt, J. (2022). Can recurrent neural networks learn process model structure? Journal Of Intelligent Information Systems.
Information Sciences	Zhu, B., Pan, X., vanden Broucke, S. , Xiao, J. with Zhu, B., Xiao, J., Zhu, B., Pan, X. (2022). A GAN- based hybrid sampling method for imbalanced customer classification. Information Sciences, 609, 1397-1411.
Software and Systems Modeling	Augusto, A., Dumas, M., La Rosa, M., Leemans, S.J J., vanden Broucke, S.K L M. with Augusto, A. (corresp. author) (2021). Optimization framework for DFG-based automated process discovery approaches. SOFTWARE AND SYSTEMS MODELING, 20 (4), 1245-1270.
Deep Learning for Credit Scoring: Do or Don't?	Gunnarsson, B.R., vanden Broucke, S. , Baesens, B., Óskarsdóttir, M., Lemahieu, W. (2021). Deep Learning for Credit Scoring: Do or Don't? European Journal Of Operational Research, 295 (1), 292- 305.

IEEE Access	Aberkane, A-J., Poels, G., vanden Broucke, S. (2021). Exploring Automated GDPR-Compliance in Requirements Engineering: A Systematic Mapping Study. IEEE ACCESS, 9, 66542-66559.
Knowledge And Information Systems	De Koninck, P., Nelissen, K., vanden Broucke, S. , Baesens, B., Snoeck, M., De Weerdt, J. (2021). Expert-driven Trace Clustering with Instance-level Constraints. Knowledge And Information Systems.
IEEE Access	Huang, L., Zhao, J., Zhu, B., Chen, H., vanden Broucke, S. (2020). An Experimental Investigation of Calibration Techniques for Imbalanced Data. Ieee Access, 8, 127343-127343.
IEEE TSC	Hasic, F., De Smedt, J., vanden Broucke, S. , Serral Asensio, E. (2020). Decision as a Service (DaaS): A Service-Oriented Architecture Approach for Decisions in Processes. IEEE Transactions On Services Computing.
European Journal of Operational Research	Höppner S., Stripling E., Baesens B., vanden Broucke S. , Verdonck T. (2020). Profit Driven Decision Trees for Churn Prediction. European Journal of Operational Research.
SoftwareX	Zhu, B., Gao, Z., Zhao, J., vanden Broucke, S. (2019). IRIC: An R library for binary imbalanced classification. SoftwareX, 10.
Knowledge-Based Systems	Smedt, J.D., Hasić, F., vanden Broucke, S., Vanthienen, J. (2019). Holistic discovery of decision
International Journal of Logistics	models from process execution data. Knowledge-Based Systems, 104866-104866. Wang, Y., Huang, L., vanden Broucke, S. (2018). An activity theory based approach for ontological modelling of collaborative logistics process dynamics. International Journal of Logistics, Taylor & Francis, 1367-5567.
Big Data	Lemahieu, W., Vanden Broucke, S., & Baesens, B. (2018). An Interview with Bart Baesens, One of the Authors of Principles of Database Management. <i>Big Data</i> , 6(2), 69-71.
ACM Transactions on Information Systems	Nelissen K., Snoeck M., vanden Broucke S. , Baesens B. (2018). Swipe and tell: using implicit feedback to predict user engagement on tablets. ACM Transactions on Information Systems.
Swarm and Evolutionary Computation	Stripling, E., Vanden Broucke, S ., Antonio, K, Baesens, B, & Snoeck, M. (2018). Profit maximizing logistic model for customer churn prediction using genetic algorithms. Swarm and Evolutionary Computation, 40, 116-130.
Information Sciences	Ponce de Leon H., Nardelli L., Carmona J., vanden Broucke S. (2018). Incorporating negative information to process discovery of complex systems. Information Sciences, 422, 480-496.
Business & Information Systems Engineering	Lismont J., Van Calster T., Oskarsdottir M., vanden Broucke S. , Baesens B., Lemahieu W., Vanthienen J. (2018). Closing the gap between experts and novices using analytics-as-a-service: an experimental study. Business & Information Systems Engineering.
Decision Support Systems	Stripling E., Baesens B., Chizi B., vanden Broucke S. (2018). Isolation-based conditional anomaly detection on mixed-attribute data to uncover workers' compensation fraud. Decision Support Systems.
Journal of the Operational Research Society	Zhu, B., Baesens, B., Backiel, A., vanden Broucke, Seppe KLM. (2018). Benchmarking sampling techniques for imbalance learning in churn prediction. Journal of the Operational Research Society, 69(1), 49-65.
Decision Support Systems	vanden Broucke S., De Weerdt J. (2017). Fodina: a Robust and Flexible Heuristic Process Discovery Technique. Decision Support Systems, 100, 109-118.
Data Mining and Knowledge Discovery	De Koninck P., De Weerdt J., vanden Broucke S. (2017). Explaining clusterings of process instances. Data Mining and Knowledge Discovery, 31 (3), 774-808.
Information Sciences	Zhu B., Baesens B., vanden Broucke S. (2017). An empirical comparison of techniques for the class imbalance problem in churn prediction. Information Sciences, 408, 84-99.
Journal of Computing	Low W., vanden Broucke S. , Wynn M., ter Hofstede A., De Weerdt J., van der Aalst W. (2016). Revising history for cost-informed process improvement. Computing, 98 (9), 895-921.
Journal of Information Technology and Management	vanden Broucke, S., Caron, F., Lismont, J., Vanthienen, J., Baesens, B. (2016). On the gap between reality and registration: a business event analysis classification framework. Information Technology & Management, 17 (4), 393-410.
Decision Support Systems	Zhu, X., vanden Broucke, S. , Zhu, G., Vanthienen, J., Baesens, B. (2016). Enabling flexible location- aware business process modeling and execution. Decision Support Systems, (83), 1-9.
Computers in Biology and Medicine	Lismont, J., Janssens, A., Odnoletkova, I., vanden Broucke, S. , Caron, F., Vanthienen, J. (2016). A guide for the application of analytics on healthcare processes: a dynamic view on patient pathways. Computers in Biology and Medicine, 77, art.nr. S0010-4825(16)30198-6, 125-134.

Ruanjian Xuebao	Zhu, X., Zhu, G., vanden Broucke, S. (2015). 地理空间约束的业务流程建模方法. Ruanjian Xuebao (Journal of Software) 《计算机集成制造系统》期刊, 26 (3), 584-599, ISSN 1000-9825.
IEEE Transactions on Knowledge and Data Engineering	vanden Broucke, S. , De Weerdt, J., Vanthienen, J., Baesens, B. (2014). Determining process model precision and generalization with weighted artificial negative events. IEEE Transactions on Knowledge and Data Engineering, 26 (8), 1877-1889.
Expert Systems with Applications	Seret, A., vanden Broucke , S. , Baesens, B., Vanthienen, J. (2014). A dynamic understanding of customer behavior processes based on clustering and sequence mining. Expert Systems with Applications, 41 (10), 4648-4657.
IEEE Transactions on Knowledge and Data Engineering	De Weerdt, J., vanden Broucke, S., Vanthienen, J., Baesens, B. (2013). Active trace clustering for improved process discovery. IEEE Transactions on Knowledge and Data Engineering, 25 (12), 2708-2720.
Journal of Biomedical Informatics	Van den Bulcke, T., Vanden Broucke, P., Van Hoof, V., Wouters, K., vanden Broucke, S. , Smits, G., Smits, E., Proesmans, S., Van Genechten, T., Eyskens, F. (2011). Data mining methods for classification of Medium-Chain Acyl-CoA dehydrogenase deficiency (MCADD) using non-derivatized tandem MS neonatal screening data. Journal of Biomedical Informatics, 44 (2), 319-325.

Articles in International Scientific Conferences and Symposia

- ICPM 2024 Wuyts, B., Broucke, S. V., & De Weerdt, J. (2024, October). SuTraN: an Encoder-Decoder Transformer for Full-Context-Aware Suffix Prediction of Business Processes. In 2024 6th International Conference on Process Mining (ICPM) (pp. 17-24). IEEE.
- *CSAI 2024* Gyo, Y., **vanden Broucke, S.**, Ren, Q. (2024). Interpretable Top Manager Turnover Prediction using a Heterogeneous Graph Neural Network. 8th International Conference on Computer Science and Artificial Intelligence (CSAI 2024), December 6-8, 2024, Beijing, China.
- STRL 2023 Guo, Y., vanden Broucke, S. (2023). Geospatial Prediction Using Road Topology: A Graph-based Perspective. In Proceedings of the 2nd International Workshop on Spatio-Temporal Reasoning and Learning (STRL 2023) co-located with the 32nd International Joint Conference on Artificial Intelligence (IJCAI 2023) (Vol. 3475). CEUR Workshop Proceedings.
- STRL 2023Geerts, M., vanden Broucke, S., De Weerdt (2023). An Evolutionary Geospatial Regression Tree. In:
M. Sioutis, Z. Long, J.H. Lee, M. Bhatt (Eds.), Proceedings of the 2nd International Workshop on
Spatio-Temporal Reasoning and Learning (STRL 2023) co-located with the 32nd International Joint
Conference on Artificial Intelligence (IJCAI 2023) (Vol. 3475). CEUR Workshop Proceedings.
- BPM 2023 Wuyts, B., Weytjens, H., vanden Broucke, S., De Weerdt, J. (2023). DyLoPro: Profiling the Dynamics of Event Logs. In: Lecture Notes in Computer Science: vol. 14159. Presented at the 21st International Conference on Business Process Management (BPM 2023), Utrecht, The Netherlands, 11 Sep 2023-15 Sep 2023.
- IEEE RE 2023 Aberkane, A-J., **vanden Broucke, S.**, Poels, G. (2023). Toward Data Protection by Design: Assessing the Current State of GDPR Disclosure in Web Applications. Presented at the 31st IEEE International Requirements Engineering Conference (RE), GERMANY, Hannover, 04 Sep 2023-05 Sep 2023.
 - ORBEL 37 Reusens, M., Stevens, A., Tonglet, J., De Smedt, J., Verbeke, W., **vanden Broucke**, **S**., Baesens, B. (2023). A review and experimental evaluation of the state-of-the-art in text classification. Presented at the 37th Annual Conference of the Belgian Operatonal Research Society, ORBEL 37, Liège.
 - RCIS 2022 Geerts, M., Shaikh, K., De Weerdt, J., vanden Broucke, S. (2022). Predicting the State of a House using Google Street View. In: Proceedings - International Conference on Research Challenges in Information Science. Presented at the RCIS 2022: Research Challenges in Information Science, Barcelona, Spain, 17 May 2022-20 May 2022
 - ICPM 2022 Peeperkorn, J., vanden Broucke, S., De Weerdt, J. (2022). Can Deep Neural Networks Learn Process Model Structure? An Assessment Framework and Analysis. In: J. Munoz-Gama, X. Lu (Eds.), Process Mining Workshops, (127-139). Presented at the ICPM, Eindhoven. Cham. ISBN: 978-3-030-98581-3.
- ICPM 2021 Peeperkorn, J., vanden Broucke, S., De Weerdt, J. (2021). Supervised Conformance Checking Using Recurrent Neural Network Classifiers. vol. LNBIP 406, (175-187). Presented at the International Workshop on Leveraging Machine Learning in Process Mining, Padua. Cham, Switerland. ISBN: 978-3-030-72692-8.
- *BPM Forum 2020* Peeperkorn, J., De Weerdt, J., **vanden Broucke, S.** (2020). Conformance checking using activity and trace embeddings. In: Springer's series Lecture Notes in Business Information Processing. Presented at the BPM Forum, Seville, 13 Sep 2020-18 Sep 2020.

- World Conference on
Information SystemsOrtega Vazquez, C.E., Mitrovic, S., De Weerdt, J., vanden Broucke, S. (2020). A Comparative Study
of Representation Learning Techniques for Dynamic Networks. In: Trends and Innovations in
Information Systems and Technologies: vol. 1161, (523-530). Presented at the World Conference on
Information Systems and Technologies, Budva, Montenegro.
 - LAK 2020 Van Goidsenhoven, S., Bogdanova, D., Deeva, G., vanden Broucke, S., De Weerdt, J., Snoeck, M. (2020). Predicting Student Success in a Blended Learning Environment. In: LAK20: 10th International Conference on Learning Analytics & Knowledge, accepted.
 - ICDMW 2019 Gunnarsson, B.R., vanden Broucke, S., De Weerdt, J. (2019). Optimizing Marketing Campaign Targeting Using Uncertainty-Based Predictive Modelling. In: 2019 IEEE International Conference on Data Mining Workshops (ICDMW) - 19th IEEE International Conference on Data Mining (ICDM). Presented at the 19th IEEE International Conference on Data Mining (ICDM), Beijing, China, 08 Nov 2019-11 Nov 2019.
 - BPI 2019 Gunnarsson, B.R., vanden Broucke, S., De Weerdt, J. (2019). Predictive Process Monitoring in Operational Logistics: A Case Study in Aviation. In: Business Process Management Workshops (BPM 2019). Presented at the 17th International Conference on Business Process Management (BPM), Vienna, Austria, 01 Sep 2019-06 Sep 2019.
- *EAJ Conference 2018* Reynkens, T., Antonio, K., Devriendt, S., Baesens, B., **Vanden Broucke, S.** (2018). Network-based fraud detection in insurance using GOTCHA! 4th European Actuarial Journal Conference, Leuven, Belgium.
 - *BPM 2018* De Koninck, P., **vanden Broucke, S.**, De Weerdt, J. (2018). act2vec, trace2vec, log2vec, and model2vec: Representation learning for Business Processes. Proceeding of the 16th International Conference on Business Process Management (BPM 2018). Sydney (Australia), 9-14 September 2018.
 - KDD 2018 Utility-
Driven Mining
WorkshopStripling, E., Baesens, B., vanden Broucke, S. (2018). Regularized Empirical EMP MaximizationDriven Mining
WorkshopFramework for Profit-Driven Model Building. Workshop on Utility-Driven Mining in conjunction with
the 24th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, Date:
August 19 23, 2018. London, United Kingdom.
 - DSSV 2018 Höppner S., Stripling E., Baesens B., vanden Broucke S., Verdonck T. (2018). Profit Driven Decision Trees for Churn Prediction, Proceedings of the conference on Data Science, Statistics and Visualisation (DSSV 2018), Vienna, Austria, July 9-11, 2018.
 - EURO 2018 Stripling E., Baesens B., vanden Broucke S. (2018). Building profit-sensitive classifiers for maximum profit: vol. accepted. European Conference on Operational Research (EURO 2018). Valencia (Spain), 8-11 July 2018.
 - IEEE DSW 2018 Devos, A., Dhondt, J., Stripling, E., Baesens, B., vanden Broucke, S., Sukhatme, G. (2018). Profit Maximizing Logistic Regression Modeling for Credit Scoring. IEEE Data Science Workshop (IEEE DSW 2018). Lausanne (Switzerland) 4-6 June 2018.
 - BPM 2017 De Smedt, J., Hasic, F., vanden Broucke, S., Vanthienen, J. (2017). Towards a Holistic Discovery of Decisions in Process-Aware Information Systems. Proceeding of the 15th International Conference on Business Process Management (BPM 2017). Barcelona (Spain), 10-15 September 2017.
 - Credit Scoring and
Credit Control XVHaupt J., Stripling E., Baesens B., vanden Broucke S., Lessmann S. (2017). Profit-maximizing
scorecard development. Credit Scoring and Credit Control XV Conference. Edinburgh (Scotland), 30
August 1 September 2017.
 - *CAiSE 2017* De Koninck P., Nelissen K., Baesens B., **vanden Broucke S.**, Snoeck M., De Weerdt J. (2017). An approach for incorporating expert knowledge in trace clustering. International Conference on Advanced Information Systems Engineering (CAiSE 2017). Essen (Germany), 12-16 June 2017.
 - DeMiMoP'16De Smedt J., vanden Broucke S., Obregon J., Kim A., Jung JY., Vanthienen J. (2017) Decision Mining
in a Broader Context: An Overview of the Current Landscape and Future Directions. In: Dumas M.,
Fantinato M. (eds) Business Process Management Workshops. BPM 2016. Lecture Notes in Business
Information Processing, vol 281. Rio de Janeiro (Brazil), 18-22 September 2016, Springer.
 - EI-KDD'16 Van Calster, T., Lismont, J., Oskarsdottir, M., vanden Broucke, S., Vanthienen, J., Lemahieu, W., Baesens, B. (2016). Automated analytics: the organizational impact of analytics-as-a-service. Proceedings of the EI-KDD'16 workshop: Vol. accepted. Workshop on Enterprise Intelligence in conjunction with 22nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining. San Francisco (US), 14 August 2016.
- Efficiency in Educationvanden Broucke, S., Vanthienen, J., De Smedt, J. (2015). Student Journey Mapping: Learningand the Use of Big DataAnalytics in Action. Efficiency in Education and the use of Big data. Leuven (Belgium), 19-202015November 2015.

- DSAA 2015 Stripling, E., vanden Broucke, S., Antonio, K., Baesens, B., Snoeck, M. (2015). Profit maximizing logistic regression modeling for customer churn prediction. IEEE International Conference on Data Science and Advanced Analytics (DSAA' 2015). Paris (France), 19-21 October 2015.
- BPM 2015Ponce-de-Leon, H., Carmona, J., vanden Broucke, S. (2015). Incorporating negative information in
process discovery. Proceeding of the 13th International Conference on Business Process Management
(BPM 2015). Innsbruck (Austria), 31 August 3 September 2015.
- CBPM 2014 Zhu, X., Zhu, G., vanden Broucke, S. (2014). 地理空间约束的业务流程建模方法. 第四届中国业务过程管理大会 (China BPM 2014). Shanghai, China, 17 October 2014.
- CoopIS 2014 vanden Broucke, S., Muñoz-Gama, J., Carmona, J., Baesens, B., Vanthienen, J. (2014). Event-based real-time decomposed conformance analysis, 18 pp. OnTheMove Federated Conferences & Workshops, CoopIS 2014 (CoopIS'14), Amantea, Calabria (Italy), 27-31 October 2014.
- GRMSE 2014 Zhu, X., Zhu, G., vanden Broucke, S., Vanthienen, J., Baesens, B. (2014). Supporting Sustainable Business Processes through a Geospatial Context Extension. 2nd International Conference on Geo-Informatics in Resource Management & Sustainable Ecosystem (GRMSE'14). Michigan (USA), 3-5 October 2014.
 - DAB 2014 Zhu X., Zhu G., vanden Broucke, S., Vanthienen, J., Baesens, B. (2014). Towards Location-Aware Process Modeling and Execution. Workshop on Data- & Artifact- centric BPM (DAB'14). Haifa (Israel), 7-11 September 2014.
- DeMiMoP 2014 De Weerdt, J., vanden Broucke, S., Caron, F. (2014). Bidimensional Process Discovery for Mining BPMN Models. Workshop on Decision Mining & Modeling for Business Processes (DeMiMoP'14). Haifa (Israel), 7-11 September 2014.
 - *BPM 2014* De Weerdt, J., **vanden Broucke**, **S.**, Vanthienen, J., Baesens, B. (2014). Explaining Clustered Process Instances, Business Process Management Conference 2014, Haifa (Israel), 7-11 September 2014.
- IEEE CEC 2014 vanden Broucke, S., Vanthienen, J., Baesens, B. (2014). Declarative Process Discovery with Evolutionary Computing. 2014 IEEE Congress on Evolutionary Computation Proceedings: Vol. accepted. 2014 IEEE. Beijing (China), 6-11 July 2014.
- IEEE CEC 2014 Low, W.Z., De Weerdt, J., ter Hostede, A.H.M., van der Aalst, W.M.P., vanden Broucke, S. (2014). Cost Optimisation of Business Process Execution. 2014 IEEE Congress on Evolutionary Computation Proceedings: Vol. accepted. 2014 IEEE. Beijing (China), 6-11 July 2014.
 - BPI 2013 vanden Broucke, S., Vanthienen, J., Baesens, B. (2013). Volvo IT Belgium VINST. Proceedings of the 3rd Business Process Intelligence Challenge co-located with 9th International Business Process Intelligence workshop (BPI 2013): Vol. 1052. Business Process Intelligence Challenge 2013 (BPIC 2013). Beijing (China), 26 August 2013 (art.nr. 3). Aachen (Germany): RWTH Aachen University.
- DeMiMoP 2013 vanden Broucke, S., Caron, F., Vanthienen, J., Baesens, B. (2013). Validating and enhancing declarative business process models based on allowed and non-occurring past behavior. Business Process Management Workshops. Workshop on Decision Mining & Modeling for Business Processes (DeMiMoP'13). Beijing (China), 26-30 August 2013.
- DeMiMoP 2013 vanden Broucke, S., Delvaux, C., Freitas, J., Rogova, T., Vanthienen, J., Baesens, B. (2013). Uncovering the relationship between event log characteristics and process discovery techniques. Business Process Management Workshops. Workshop on Business Process Intelligence (BPI2013). Beijing (China), 26-30 August 2013.
- DeMiMoP 2013 Seret, A., vanden Broucke, S., Baesens, B., Vanthienen, J. (2013). An exploratory approach for understanding customer behavior processes bases on clustering and sequence mining. Business Process Management Workshops. Workshop on Decision Mining & Modeling for Business Processes (DeMiMoP'13). Beijing (China), 26-30 August 2013.
- IEEE CIDM 2013 vanden Broucke, S., De Weerdt, J., Vanthienen, J., Baesens, B. (2013). A comprehensive benchmarking framework (CoBeFra) for conformance analysis between procedural process models and event logs in ProM. Proceedings of the IEEE Symposium on Computational Intelligence and Data Mining, CIDM 2013, part of the IEEE Symposium Series on Computational Intelligence 2013, SSCI 2013: vol. accepted. IEEE Symposium on Computational Intelligence and Data Mining (CIDM 2013). Singapore, 16-19 April 2013.
- *ICIS JAIS 2012* Caron, F., **vanden Broucke, S.**, Vanthienen, J., Baesens, B. (2012). On the distinction between truthful, invisible, false and unobserved events. Sprouts: Working Papers on Information Systems: vol. 12 (16). 11th JAIS Theory Development Workshop at ICIS 2012. Orlando, Florida, 16 December 2012.
 - ACIS 2012 Caron, F., vanden Broucke, S., Vanthienen, J., Baesens, B. (2012). On the distinction between truthful, invisible, false and unobserved events.

Proceedings of the 18th Americas Conference on Information Systems: Vol. e-pub. Americas Conference on Information Systems. Seattle, Washington (US), 9-12 August 2012 (art.nr. 24) Association for Information Systems.

- IEEE CEC 2012 De Weerdt, J., vanden Broucke, S., Vanthienen, J., Baesens, B. (2012). Leveraging process discovery with trace clustering and text mining for intelligent analysis of incident management processes. Evolutionary Computation (CEC), 2012 IEEE Congress on. Congress on Evolutionary Computation (CEC), 2012 IEEE. Brisbane (Australia), 10-15 June 2012 (pp. 1-8) IEEE computational intelligence society.
 - CAiSE 2012 vanden Broucke, S., De Weerdt, J., Baesens, B., Vanthienen, J. (2012). An improved artificial negative event generator to enhance process event logs. In Ralyt, J. (Ed.), Franch, X. (Ed.), Brinkkemper, S. (Ed.), Wrycza, S. (Ed.), Lecture Notes in Computer Science. International Conference on Advanced Information Systems Engineering (CAiSE'12). Gdansk (Poland), 25-29 June 2012 (pp. 254-269) Springer.

Books and Book Chapters

- Book vanden Broucke, S., Baesens, B. (2021). Managing Model Risk. Independently published. ISBN: 979-8521686988.
- Book Chapter Verbeke, W., Moeyersoms, J., **vanden Broucke, S.**, De Weerdt, J. (2021). AI in bedrijfsvoering in De Bruyne, J., & Bouteca, N. (Eds.). (2021). Artificiële intelligentie en maatschappij. Gompel&Svacina.
 - Book Lemahieu W., vanden Broucke S., Baesens B. (2020). 数据库管理:大数据与小数据的存储、管理 及分析实战. China Machine Press.
 - Book vanden Broucke S., Baesens B. (2018). 数据科学实战之网络爬取: Python实践和示例. Apress.
 - Book vanden Broucke S., Baesens B. (2018). Pythonスクレイピングの基本と実践. Apress.
 - *Book* vanden Broucke S., Baesens B. (2018). Practical Web Scraping for Data Science: Best Practices and Examples with Python. Apress.
 - Book Lemahieu W., vanden Broucke S., Baesens B. (2018). Principles of database management the practical guide to storing, managing and analyzing small and big data. Cambridge University Press.
 - Book Baesens, B., Backiel, A., vanden Broucke, S. (2015). Java для начинающих. Объектноориентированный подход. Wrox. Wiley.
 - *Book* vanden Broucke S., Baesens B. (2018). Web scraping for data science with Python. CreateSpace Amazon.
- *Book Chapter* De Smet J., **Vanden Broucke S.**, Vanthienen J., De Witte K. (2017). Improved student feedback with process and data analytics. In: Vanthienen J., De Witte K. (Eds.), Data analytics applications in education, (pp. 11-37) Taylor and Francis.
 - *Book* Baesens, B., Backiel, A., **vanden Broucke**, **S.** (2015). Beginning Java: Object Oriented Programming for Business Applications. Wrox, Wiley.
- Book Chapter Baesens, B. (2014). Chapter: Business Process Analytics by **vanden Broucke S.** in Analytics in A Big Data World: The Essential Guide to Data Science and its Applications. Wiley, June 2014.

Articles in Professionally Oriented Journals, Technical Reports, Science Outreach

Tech Report	Augusto, A., Dumas, M., La Rosa, M., Leemans, S., Vanden Broucke, S. (2020). Optimized Discovery of Process Models From Event Logs: Framework and Evaluation: The University of Melbourne.
Tech Report	Hasic, F., De Smedt, J., vanden Broucke , S. , Serral Asensio, E. (2019). A Parameter Assessment of Service-Oriented Architecture Process Mining Integrating Decisions (SOAP-MInD). FEB Research Report KBI_1914, 11 pp. Leuven (Belgium): KU Leuven - Faculty of Economics and Business.
Big Data Quarterly	Lemahieu, W., vanden Broucke, S. , Baesens, B. (2018). Data Warehouses, Data Marts, Operational Data Stores, and Data Lakes: What's in a Name? Big Data Quarterly.
KDnuggets	Lemahieu, W., vanden Broucke, S. , Baesens, B. (2018). Principles of Database Management: The Practical Guide to Storing, Managing and Analyzing Big and Small Data. KDnuggets.

Information Management	Lemahieu, W., vanden Broucke, S. , Baesens, B. (2018). Opinion: Building the ideal data quality team starts with these roles. September 25, 2018 Information-management.com.
Cutter Consortium	Baesens, B., vanden Broucke, S. , Lemahieu, W. (2018). Relational Databases vs. NoSQL Databases: The End of the One-Size-Fits-All Era? September 18, 2018, Cutter Consortium.
KDnuggets	Lemahieu, W., vanden Broucke, S. , Baesens, B. (2018). OLAP queries in SQL: A Refresher. KDnuggets.
Cutter Consortium	Baesens, B., vanden Broucke, S. , Lemahieu, W. (2018). Just in Case: A Database Perspective on Business Continuity. July 24, 2018, Cutter Consortium.
Information Management	Lemahieu, W., vanden Broucke, S. , Baesens, B. (2018). Opinion: SQL, NoSQL or NewSQL: How organizations can make the right pick. July 18, 2018 Information-management.com.
Information Management	Baesens, B., Lemahieu, W., vanden Broucke, S. (2018). Opinion: How database management practices impact business continuity. June 11, 2018 Information-management.com.
DataScience.com	Lemahieu, W., Baesens, B., vanden Broucke, S. (2018). To SQL Or Not To SQL: That's The Question. DataScience.com.
Analytics India Mag	Lemahieu, W., Baesens, B., vanden Broucke, S. (2018). To SQL Or Not To SQL: That's The Question! Analytics India Magazine.
KDnuggets	Lemahieu, W., vanden Broucke, S. , Baesens, B. (2018). To SQL or not to SQL: that is the question! KDnuggets.
Datamation	Baesens, B., vanden Broucke, S. , Lemahieu, W. (2018). Big Data Experts: Top Job Titles. May 1, 2018, Datamation.
Cutter Consortium	Baesens, B., vanden Broucke, S. , Lemahieu, W. (2018). Data Integration Vs. Data Quality: Friends or Foes? May 1, 2018, Cutter Consortium.
DBTA	Wells, J., vanden Broucke, S. (interviewee) (2017). Using Web Scraping as a Data Science Tool. Database Trends and Applications, 4/12/2017.
Financieel Management	Van Sas, E.J., vanden Broucke, S. (interviewee) (2017). Voorbij de hype Big data gaat volgende fase in. Financieel Management, 27/11/2017.
Trends	Vangelder, J., vanden Broucke, S. (interviewee) (2017). Geld verdienen met big data blijkt moeilijker dan gedacht. Trends, 31/08/17.
KDnuggets	vanden Broucke, S., Baesens, B. (2017). Web Scraping for Data Science with Python. KDnuggets.
KDnuggets	Zhu, B. Baesens, B., vanden Broucke, S. (2017). Do We Need Balanced Sampling? KDnuggets.
KDnuggets	vanden Broucke, S. (2017). Process Mining with R: Introduction. KDnuggets.
ECONnect	vanden Broucke, S. , De Weerdt, J. (2016). Van groot naar groots: toekomstige uitdagingen in big data en analytics. ECONnect 2016.
Cutter Consortium	Baesens, B., Backiel, A., vanden Broucke, S. (2015). The State of Database Access in Java: Passchendaele revisited! Cutter IT Email Advisor, January 19, Cutter Consortium.
Informatie	vanden Broucke, S., Baesens, B., Lismont, J., Vanthienen, J. (2014). Sluit de lus: moderne technieken in Business Process Analytics. Informatie.
Informatie	Baesens, B., vanden Broucke, S. , Dejaeger, K., Eerola, T., Goedhuys, L., Riis, M., Wehkamp, R. (2013). Cloudcomputing in analytics: de hype ontraadseld. Informatie.
Cutter Consortium	vanden Broucke, S., Baesens, B., Vanthienen, J. (2013). Closing the loop: state of the art in business process analytics. Data Insight & Social BI: Executive Update, Cutter Consortium.
ECONnect	vanden Broucke, S. (2013). What's in a name: Bitcoin, de digitale munteenheid. ECONnect (Q2), 40-41.
Techila Technologies White Paper	Dejaeger, K., vanden Broucke, S. , Eerola, T., Wehkamp, R., Goedhuys, L., Riis, M., Baesens, B. (2012). Beyond the hype: cloud computing in analytics. Finland: Techila Technologies.
Cutter Consortium	Dejaeger, K., vanden Broucke, S. , Eerola, T., Wehkamp, R., Goedhuys, L., Riis, M., Baesens, B. (2012). Beyond the hype: cloud computing in analytics. Data Insight & Social BI: Executive Update, Cutter Consortium.

- *Tech Report* Ponce-de-Léon, H., Carmona, J., **vanden Broucke, S.** (2015). Incorporating negative information in process discovery. FEB Research Report KBI_1510, 17 pp. Leuven (Belgium): KU Leuven Faculty of Economics and Business.
- Tech ReportDe Smedt, J., vanden Broucke, S., De Weerdt, J., Vanthienen, J. (2015). A full R/I-net construct
lexicon for declare constraints. FEB Research Report KBI_1506, 20 pp. Leuven (Belgium): KU
Leuven Faculty of Economics and Business.
- *Tech Report* vanden Broucke, S., Vanthienen, J., Baesens, B. (2014). Straightforward Petri net-based event log generation in ProM. FEB Research Report KBI_1417, 12 pp. Leuven (Belgium): KU Leuven Faculty of Economics and Business.
- *Tech Report* vanden Broucke, S., Muñoz-Gama, J., Carmona, J., Baesens, B., Vanthienen, J. (2013). Eventbased real-time decomposed conformance analysis, 21 pp: Polytechnic University of Catalonia, Department of Information Languages and Systems.
- Tech Reportvanden Broucke, S., De Weerdt, J., Vanthienen, J., Baesens, B. (2013). On replaying process
execution traces containing positive and negative events. FEB Research Report KBI_1311, 17 pp.
Leuven (Belgium): KU Leuven Faculty of Economics and Business.
- *Tech Report* De Weerdt, J., **vanden Broucke, S.**, Vanthienen, J., Baesens, B. (2012). Leveraging process discovery with trace clustering and text mining for intelligent analysis of incident management processes. FEB Research Report KBI_1215, 9 pp. Leuven (Belgium): KU Leuven Faculty of Business and Economics.
- *Tech Report* vanden Broucke, S., De Weerdt, J., Vanthienen, J., Baesens, B. (2012). An improved process event log artificial negative event generator. FEB Research Report KBI_1216, 1-17 pp. Leuven (Belgium): KU Leuven Faculty of Economics and Business.

Teaching

Master Course, UGent	2022-2023 – present – Deep Learning (F000918A, F000918B)
	LecturerFundamentals, MLPs, CNNs, RNNs, Transformers, Generative AI
Bachelor Course, UGent	2019-2020 – present – Databasesystemen (F000910) • Lecturer
	 On database modelling and design, SQL, relational databases, NoSQL
Bachelor Course, UGent	2019-2020 – present – Informatica (F000886)
	 Lecturer Basic theory on hardware, algorithms, data, business information systems
Master Course, KU Leuven	2023 – present – Realization of AI (B30778)
	LecturerDevelopment and deployment of AI models in practice
Master Course, KU Leuven	2016-2017 – present – Advanced Analytics in Business (D0S07a)
	 Lecturer On advanced topics in business analytics and data mining (supervised and unsupervised data mining, deep learning, text mining)
Master Course, KU Leuven	2016-2017 – present – Big Data Platforms & Technologies (D0S06a) Lecturer
	 Lecturer On big data tooling, frameworks, platforms (Spark, H2O, NoSQL, graph databases)
Postgraduate Course,	2016 – present – Postgraduate Studies: Big Data & Analytics in Business and Management
KU Leuven	 Academic coordinator and lecturer On data analytics, big data, business applications of analytics, process mining and big data management
Visiting Lecturer, Beijing Jiatong	November 2018 – Frontiers of Information Systems
University	 Visiting lecturer, Beijing Jiatong University, China Project: "Management Data Science" For master student's audience
Master Course, KU Leuven	2018-2019 – Basic Programming (I0D41A)
	 Lecturer Master course for statisticians, information management students, bio-engineers on Java programming
Visiting Lecturer, Beijing Jiatong	September 2017 – Web Scraping with Python and Context-aware and Declarative Process Mining
University	 Visiting lecturer, Beijing Jiatong University, China Project: "Management Data Science" For master student's audience
Bachelor Course, KU Leuven	2015-2016 – 2017-2018 – Grondslagen van Beleidsinformatica (D0T06A, D0H17A, HBN74b)
Ro Leaven	 Lecturer, campus Leuven and Brussels Introductory course to IT and management informatics (Dutch)
Master Course, KU Leuven	2015-2016 – Knowledge Management and Business Intelligence (D0I74A)
	Substitute lecturerOn knowledge engineering, knowledge management, data mining, AI, business intelligence
Course Assistant	September 2011 - October 2014 – Various Courses, KU Leuven
	 Business Information Systems: exam coordination and grading, set up online SQL exercise environment Authington and Modeling of Information Systems: aggisting with even setup.
	 Architecture and Modeling of Information Systems: assisting with exam setup Software Development and Programming: exam setup, coordination, grading, student aid, developed an automatic correction system to provide objective, detailed, and immediate feedback

 Basic Programming: course materials preparation, co-authored book on Java Programming, set up online e-learning platform

 Practical Session,
 2013 – Intermediate Excel and Access, KU Leuven

 KU Leuven
 Teaching intermediate Excel and Access usage to students in practical hands-on sessions

Academic Miscellanea

Chairs and Committee Memberships

- 2024: Program committee member for the International Workshop on Spatio-Temporal Reasoning and Learning (STRL)
- 2022, 2023, 2024, 2025: Program committee member for the International Conference on Advanced Information Systems Engineering CAiSE
- 2019, 2020, 2021, 2022, 2023, 2024: Program committee member for the International Conference on Process Mining (ICPM)
- 2020, 2021, 2022, 2023, 2024: Program committee member for the International Conference on Business Process Management (BPM)
- 2016, 2017, 2018, 2019: Program committee member for Process Querying (PQ)
- 2015, 2016, 2017, 2018, 2019: Program committee member for the International Workshop on Business Process Intelligence (BPI)
- 2018: Program committee member for Data Mining in Marketing DMM 2018 (DMM)
- 2018: Program committee member for Cost-Sensitive Learning Workshop at SIAM (COST)
- 2017: Program chair for the International Workshop on Learning with Imbalanced Domains: Theory and Applications (LIDTA)
- 2015, 2016, 2017: Program chair for Algorithms & Theories for the Analysis of Event Data (ATAED)
- 2013, 2014, 2015, 2016: Program committee member for the International Workshop on Decision Mining & Modeling for Business Processes (DeMiMoP)
- 2017: Program committee member for the International Workshop on Declarative/Decision/Hybrid Mining & Modeling for Business Processes (DeHMiMoP)
- 2017: Program committee member for the International Workshop on Quality Data for Process Analytics (QD-PA 2017)
- Board member of SAI vzw (<u>www.sai.be</u>)
- Member of LRISK the Leuven center for research, training and advice in the field of insurance and financial risk analysis (KU Leuven)
- Member of the Leuven Big Data Platform (KU Leuven)
- Co-chair of DataMiningApps (<u>www.dataminingapps.com</u>)

Projects and Grants

- 2023: Research Chair holder Brussels Airport "Smart Operational Airport Analytics" (3 years)
- 2023: Research Chair holder Euroclear "Predictive Process Mining for Financial Market Infrastructure Services" (3 years)
- 2019: Research Chair co-holder FedNOT "Real Estate Analytics" (3 years)
- 2019: Beneficiary of UGent BOF start-up grant (EUR 100.000)
- 2018: Research Chair holder Brussels Airport "Smart Operational Airport Analytics" (3 years)
- 2018: Funding for visiting lecturer Beijing Jiaotong University (60.000 RMB)
- 2017: Beneficiary of KU Leuven start-up grant (STG/16/027, EUR 100.000)
- 2017: Funding for visiting lecturer Beijing Jiaotong University (45.500 RMB)
- 2016: Beneficiary of FWO grant for project "Profit Driven Analytics: New Techniques and Applications", together with Prof. dr. Bart Baesens, (G063217N, EUR 209.668,25)

Foreign Collaboration and Visits

- 2018: China (Beijing Jiaotong University, invited by Prof. dr. Ying Wang), visiting lecturer
- 2017: China (Beijing Jiaotong University, invited by Prof. dr. Ying Wang), visiting lecturer
- 2017: China (Wuhan University, invited by Prof. dr. Guobin Zhu), visiting researcher
- 2014, 2016: South Korea (Kyung Hee University, invited by Prof. dr. Jae-Yoon Jung), visiting researcher
- 2014: China (Wuhan University, invited by Prof. dr. Guobin Zhu), visiting researcher
- 2013, 2014: Australia (Queensland University of Technology, invited by Prof. dr. Arthur ter Hofstede), visiting researcher
- 2013: Spain (Technical University of Catalonia, invited by Prof. dr. Josep Carmona), visiting researcher
- 2012, 2013: China (Tsinghua University, invited by Prof dr. Guoqing Chen), visiting researcher
- 2013: China (Beijing Jiaotong University, invited by Prof. dr. Wang Ying), visiting researcher

Supervision and Mentoring

PhD students:

- Ongoing: Promotor of Yameng Guo
- Ongoing: Member of supervisory committee of Margot Geerts
- Ongoing: Member of PhD committee of Abdel Aberkane
- Ongoing: Member of supervisory committee of Xiaomeng He
- Ongoing: Member of supervisory committee of Brecht Wuyts

- 2023: Member of supervisory committee of Carlos Eduardo Ortega, "Novel Methods for Positive Unlabeled Learning in Imbalance Data Sets with Applications in Fraud Detection"
- 2023: Member of supervisory committee of Jari Peeperkorn, "Novel Conformance Checking Methods and Validation Strategies for Deep Learning in Process Mining"
- 2024: Member of PhD committee of Georgios Georgiadis, "Big data, GDPR en EA"
- 2023: Member of supervisory committee of Hans Weytjens, "Machine Learning for Predictive and Prescriptive Process Monitoring"
- 2023: Promotor of Gunnarsson, Björn Rafn, "Deep Learning for Process and Business Analytics"
- 2022: Member of supervisory committee of Thomas Dierckx, "Data Science in Portfolio Allocations"
- 2020: Member of supervisory committee of Höppner, Sebastiaan, "Advanced statistical techniques for fraud detection"
- 2019: Member of supervisory committee of Nelissen, Klaas, "Measuring user engagement in various domains"
- 2019: Member of supervisory committee of De Koninck, Pieter. "Advanced Trace Clustering Techniques for Business Process Executions"
- 2019: Co-supervisor of Nelissen, Klaas. "Essays on measuring user engagement with online news"
- 2018: Member of supervisory committee of Óskarsdóttir, María. "Leveraging Mobile Phone Data and Social Network Analytics for Profit Driven Modeling"
- 2018: Co-supervisor of Stripling, Eugen. "Business-Oriented Data Analytics: Advances in Profit-Driven Model Building and Fraud Detection"
- 2016: Member of supervisory committee of De Smedt, Johannes. "Studies on declarative process modeling and its relation to procedural techniques"

Expertise

Computer Usage	Operating systems: Microsoft Windows, Linux (Debian, Ubuntu, Arch, Redhat, SuSE) Data/process mining, AI: R (caret, dplyr, rml, iml, others), Matlab, Julia, Python (Pytorch, Numpy, scikit- learn, Pandas), ProM, Disco, Weka, Rapidminer, CPN Tools, Hadoop, Spark, Tensorflow, Keras, CNTK, Pytorch Editing: Office suites, LaTeX, Adobe Photoshop, Openshot, SketchUp, 3d Max, others Databases: MySQL (MariaDB), PostgreSQL, Neo4j, Memgraph, SQLite, NoSQL (MongoDB, CouchDB), InterSystems Caché, others
Programming Languages	Python, R, Java, PHP, HTML (5), CSS, Delphi (Pascal), CPN ML, JavaScript, Bash, Visual Basic .NET, Prolog, others
Languages	Fluent: English, Dutch Basics: Mandarin (Level 3 certified), French, German
Open Source and Side Projects	Open Source Contributor: R CRAN "EMP" package, Tablix, Apache ("mu_antiloris") GitHub: <u>https://github.com/macuyiko</u> (side projects and public repositories)
Areas of Expertise	Economics: micro/macro, industrial theory, entrepreneurship, strategy Analytics: big data mining, machine learning, process mining, constraint programming, operations research, business analytics/intelligence, deep learning Information Systems: management, programming, planning Digital Technology: mobile web, the cloud, conversational commerce, cyber security, digital money (crypto currencies), blockchain
Public Speaking	 International conferences, invited seminars and workshops (Tsinghua University, Wuhan University, Queensland University of Technology, T/U Eindhoven, Kyung Hee University, Universiteit Hasselt, Ben Gurion University of the Negev) Company presentations, courses and trainings (e.g. banking, consulting sector, The SAS Institute, The OR Society, European Data Innovation Hub, Business Analytics 4 All, SAI, Analytics Experience, London Financial Studies, CFA Society Belgium, Acerta, and many more)

Education

PhD	September 2011 - October 2014 – PhD in Applied Economics at KU Leuven
	Thesis: Advances in Process Mining: Artificial Negative Events and Other Techniques (Accessible at: <u>https://www.seppe.net/phd.pdf</u>)
Master of Science	2009 - 2011 – Master of Science, Business Economics: Information Systems Engineer at KU Leuven, Belgium
	Major: Management Information SystemsMinor: Entrepreneurship
	Thesis: Building a MERODE Pattern Catalogue at SmalsGrade: magna cum laude
Bachelor of Science	2006 - 2009 – Bachelor of Science, Business Economics: Information Systems Engineer at KU Leuven, Belgium
	Major: Industrial Organization and Strategy
Acting Degree	At Academy for Music, Spoken Word and Dance, Ninove, Belgium
Lower and Middle Education	

Miscellaneous

Google Scholar Statistics	Citations: 2264 H-index: 25
	https://scholar.google.be/citations?user=uIfUaMMAAAAJ
Date of Birth	9 November, 1986
Myers-Briggs Type	INTJ
Casual Interests	Reading (fiction and non-fiction), cinema, gaming, recreational computer programming, blogging (<u>http://blog.macuyiko.com</u>), physics, technology. Ask me about current trends in artificial intelligence, cyber security, digital money (crypto currencies), blockchain, and China's transition in the global economy.