

Publications Dr N.R.T.P. van Beest

31 August 2022

Journals

1. van Beest, M.R.R.S., Arpino, F., Hlinka, O., Sauret, E., van Beest, N.R.T.P., Humphries, R.S., Buonanno, G., Morawska, L., Governatori, G., Motta, N.: Influence of indoor airflow on particle spread of a single breath and cough in enclosures: Does opening a window really ‘help’? *Atmospheric Pollution Research* (2022) 101473.
2. Groefsema, H., van Beest, N.R.T.P., Armas-Cervantes, A.: Efficient conditional compliance checking of business process models. *Computers in Industry* **115** (2020) 103181.
3. Van Beest, N.R.T.P., Groefsema, H., García-Bañuelos, L., Aiello, M.: Variability in business processes: automatically obtaining a generic specification. *Information Systems* **80** (2019) 36–55.
4. Ghanbari Ghoshchi, N., Van Beest, N.R.T.P., Governatori, G., Olivieri, F., Sattar, A.: Synthesis of compliant business processes. *IEEE Transactions on Services Computing* (2018).
5. García-Bañuelos, L., Van Beest, N.R.T.P., Dumas, M., La Rosa, M., Mertens, W.: Complete and interpretable conformance checking of business processes. *IEEE Transactions on Software Engineering* **44** (2018) 262–290.
6. Groefsema, H., Van Beest, N.R.T.P., Aiello, M.: A formal model for compliance verification of service compositions. at *IEEE Transactions on Services Computing* **11** (2018) 466–479.
7. Van Beest, N.R.T.P., Kaldeli, E., Bulanov, P., Wortmann, J.C., Lazovik, A.: Automated runtime repair of business processes. *Information Systems* **39** (2014) 45–79.
8. Mărușter, L., Van Beest, N.R.T.P.: Redesigning business processes: a methodology based on simulation and process mining techniques. *Knowledge and Information Systems* **21**(3) (2009) 267–297.

Conferences

9. Groefsema, H., van Beest, N.R.T.P., Governatori, G.: On the use of the conformance and compliance keywords during verification of business processes. In: The 20th International Conference on Business Process Management, Springer (2022).
10. Colombo Tosatto, S., van Beest, N.R.T.P.: Dealing with unexpected runtime outcomes within process models. In: The 20th International Conference on Business Process Management, Springer (2022).
11. Tosatto, S.C., Governatori, G., van Beest, N.R.T.P.: Verifying compliance of process compositions through certification of its components. In: 2020 IEEE 24th International Enterprise Distributed Object Computing Conference (EDOC), IEEE Computer Society (2020) 87–96.
12. Colombo Tosatto, S., Governatori, G., van Beest, N.R.T.P.: Checking regulatory compliance: Will we live to see it? In: International Conference on Business Process Management, Springer (2019) 119–138.
13. Ferraro, G., Lam, H.P., Tosatto, S.C., Olivieri, F., Islam, M.B., van Beest, N.R.T.P., Governatori, G.: Automatic extraction of legal norms: Evaluation of natural language processing tools. In: JSAI International Symposium on Artificial Intelligence, Springer (2019) 64–81.
14. Olivieri, F., G.G.C.M., Van Beest, N.R.T.P., Colombo Tossatto, S.: Resource-driven substructural defeasible logic. In: International Conference on Principles and Practice of Multi-Agent Systems (PRIMA 2018), Springer International Publishing (2018).
15. Klinkmüller, C., Van Beest, N.R.T.P., Weber, I.: Towards reliable predictive process monitoring. In: CAiSE 2018, Lecture Notes in Business Information Processing, Springer International Publishing (2018).
16. Olivieri, F., Governatori, G., Van Beest, N.R.T.P., Ghanbari Ghooshchi, N.: Declarative approaches for compliance by design. In: Lecture Notes in Business Information Processing 234, Springer International Publishing (2018).
17. Armas Cervantes, A., van Beest, N.R.T.P., La Rosa, M., Dumas, M., García-Bañuelos, L.: Interactive and incremental business process model repair. In: International Conference on Cooperative Information Systems, Springer (2017) 53–74.
18. Ghanbari Ghooshchi, N., Van Beest, N.R.T.P., Governatori, G., Olivieri, F., Sattar, A.: Visualisation of compliant declarative business processes. In: Enterprise Distributed Object Computing Conference (EDOC), 2017 IEEE 21st International, IEEE (2017) 89–94.

19. Van Beest, N.R.T.P., Dumas, M., García-Bañuelos, L., La Rosa, M.: Log delta analysis: Interpretable differencing of business process event logs. In: Proc. of BPM 2015, Springer (2015) 386–405.
20. Groefsema, H., Van Beest, N.R.T.P.: Design-time compliance of service compositions in dynamic service environments. In: Service-Oriented Computing and Applications (SOCA), 2015 IEEE 8th International Conference on, IEEE (2015) 108–115.
21. D’Souza, A., Van Beest, N.R.T.P., Huitema, G.B., Wortmann, J.C., Velthuisen, H. In: A Review and Evaluation of Business Model Ontologies: A Viability Perspective. Springer International Publishing (2015) 453–471.
22. Van Beest, N.R.T.P., Russell, N., Ter Hofstede, A., Lazovik, A.: Achieving intention-centric bpm through automated planning. In: International Conference on Service-Oriented Computing and Applications. (2014).
23. D’Souza, A., Van Beest, N.R.T.P., Huitema, G.B., Wortmann, J.C., Velthuisen, H.: An assessment framework for business model ontologies to ensure the viability of business models. In: Proceedings of the 16th International Conference on Enterprise Information Systems (ICEIS). (2014) 226–235.
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25. Van Beest, N.R.T.P., Bucur, D.: Continuous correctness of business processes against process interference. In: Service-Oriented Computing and Applications (SOCA), 2013 IEEE 6th International Conference on, IEEE (2013) 110–117.
26. Van Beest, N.R.T.P., Bulanov, P., Wortmann, J.C., Lazovik, A.: Resolving business process interference via dynamic reconfiguration. In: International Conference on Service-Oriented Computing. Volume 6470/2010., Springer (2010) 47–60.
27. Van Beest, N.R.T.P., Szirbik, N.B., Wortmann, J.C.: Assessing the interference in concurrent business processes. In: Proceedings of the 12th International Conference on Enterprise Information Systems. Volume 3. (2010) 261–270.
28. Van Beest, N.R.T.P., Szirbik, N.B., Wortmann, J.C.: A vision for agile model-driven enterprise information systems. In: Proceedings of the 11th International Conference on Enterprise Information Systems. (2009) 188–193.
29. Van Beest, N.R.T.P., Maruster, L.: A process mining approach to redesign business processes - a case study in gas industry. In: Symbolic and Numeric Algorithms for Scientific Computing, 2007. SYNASC. International Symposium on, IEEE (2007) 541–548.

30. Meijler, T.D., Kruithof, G., Van Beest, N.R.T.P.: Top down versus bottom up in service-oriented integration: an mda-based solution for minimizing technology coupling. In: International Conference on Service-Oriented Computing, Springer (2006) 484–489.

Workshops

31. Su, Z., Polyvyanyy, A., Lipovetzky, N., Sardina, S., van Beest, N.R.T.P.: Grace: A simulator for continuous goal recognition over changing environments. In: International IJCAI Workshop on Process Management in the AI era (PMAI@IJCAI). (2022).
32. Van Beest, N.R.T.P., Weber, I.: Behavioral classification of business process executions at runtime. In: BPM Workshops: International Workshop on Runtime Analysis of Process-Aware Information Systems (PRAISE), Springer (2016).
33. García-Bañuelos, L., Van Beest, N.R.T.P., Dumas, M., La Rosa, M.: Business process conformance checking based on event structures. In: Proc. of NWPT’2015, Reykjavik University (2015) 3 pages.
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Demos

35. Groefsema, H., Van Beest, N.R.T.P., Armas-Cervantes, A.: Automated compliance verification of business processes in apromore. In: Proc. of BPM Demos 2017, CEUR. Volume 1920., Springer (2017).
36. Armas-Cervantes, A., Van Beest, N.R.T.P., La Rosa, M., Dumas, M., Raboczi, S.: Incremental and interactive business process model repair in apromore. In: Proc. of BPM Demos 2017, CEUR. Volume 1920., Springer (2017).
37. Armas-Cervantes, A., Van Beest, N.R.T.P., Dumas, M., García-Bañuelos, L., La Rosa, M.: Behavior-based process comparison in apromore. In: Proc. of BPM Demos 2016, CEUR. Volume 1789., Springer (2016).

Books

38. Van Beest, N.R.T.P.: Process interference: automated identification and repair. PhD thesis, University of Groningen (2013).

Invited talks

39. García-Bañuelos, L., Van Beest, N.R.T.P., Dumas, M., La Rosa, M., Mertens, W.: Complete and interpretable conformance checking of business processes. In: European Software Engineering Conference. (2017).