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### 2021

1. V. Rodriguez-Fernández, A. Trzcionkowska, A. González-Pardo, E. Brzychczy, G. J. Nalepa, and D. Camacho, "**Conformance Checking for Time-Series-Aware Processes**," *IEEE Trans. Ind. Informatics*, vol. 17, no. 2, pp. 871–881, 2021, doi: [10.1109/TII.2020.2977126](https://doi.org/10.1109/TII.2020.2977126).
2. M. Kuk, S. Bobek, and G. J. Nalepa, "**Explainable clustering with multidimensional bounding boxes**," in *8th IEEE International Conference on Data Science and Advanced Analytics, DSAA 2021, Porto, Portugal, October 6-9, 2021*, 2021, pp. 1–10, doi: [10.1109/DSAA53316.2021.9564220](https://doi.org/10.1109/DSAA53316.2021.9564220).
3. L. Zuchowska, K. Kutt, and G. J. Nalepa, "**Bartle Taxonomy-based Game for Affective and Personality Computing Research**," in *Proceedings of the Twelfth International Workshop Modelling and Reasoning in Context (MRC 2021) co-located with the 30th International Joint Conference on Artificial Intelligence (IJCAI 2021), Montréal, Quebec, Canada, August 19-20, 2021*, 2021, vol. 2995, pp. 51–55, [Online]. Available: <http://ceur-ws.org/Vol-2995/paper7.pdf>.
4. G. J. Nalepa, S. Bobek, K. Kutt, and M. Atzmueller, "**Semantic Data Mining in Ubiquitous Sensing: A Survey**," *Sensors*, vol. 21, no. 13, p. 4322, 2021, doi: [10.3390/s21134322](https://doi.org/10.3390/s21134322).
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6. S. Bobek and G. J. Nalepa, "**Introducing Uncertainty into Explainable AI Methods**," in *Computational Science - ICCS 2021 - 21st International Conference, Krakow, Poland, June 16-18, 2021, Proceedings, Part VI*, 2021, vol. 12747, pp. 444–457, doi: [10.1007/978-3-030-77980-1\\_34](https://doi.org/10.1007/978-3-030-77980-1_34).
7. S. Bobek, P. Balaga, and G. J. Nalepa, "**Towards Model-Agnostic Ensemble Explanations**," in *Computational Science - ICCS 2021 - 21st International Conference, Krakow, Poland, June 16-18, 2021, Proceedings, Part IV*, 2021, vol. 12745, pp. 39–51, doi: [10.1007/978-3-030-77970-2\\_4](https://doi.org/10.1007/978-3-030-77970-2_4).

8. K. Kutt, L. Zuchowska, S. Bobek, and G. J. Nalepa, "**People in the Context - an Analysis of Game-based Experimental Protocol**," in *Proceedings of the Twelfth International Workshop Modelling and Reasoning in Context (MRC 2021) co-located with the 30th International Joint Conference on Artificial Intelligence (IJCAI 2021), Montréal, Quebec, Canada, August 19-20, 2021*, 2021, vol. 2995, pp. 46–50, [Online]. Available: [paper6.pdf](#).
9. S. Bobek, M. Mozolewski, and G. J. Nalepa, "**Explanation-Driven Model Stacking**," in *Computational Science - ICCS 2021 - 21st International Conference, Krakow, Poland, June 16-18, 2021, Proceedings, Part VI*, 2021, vol. 12747, pp. 361–371, doi: [10.1007/978-3-030-77980-1\\_28](https://doi.org/10.1007/978-3-030-77980-1_28).
10. K. Kutt, S. Skoczen, and G. J. Nalepa, "**A Voice-Based Travel Recommendation System Using Linked Open Data**," in *Computational Science - ICCS 2021 - 21st International Conference, Krakow, Poland, June 16-18, 2021, Proceedings, Part III*, 2021, vol. 12744, pp. 370–377, doi: [10.1007/978-3-030-77967-2\\_31](https://doi.org/10.1007/978-3-030-77967-2_31).
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12. S. Bobek, M. Kuk, J. Brzegowski, E. Brzychczy, and G. J. Nalepa, "**KnAC: an approach for enhancing cluster analysis with background knowledge and explanations**," *CoRR* abs/2112.08759, 2021, [Online]. Available: <https://arxiv.org/abs/2112.08759>.
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14. K. Kutt, D. Drazyk, S. Bobek, and G. J. Nalepa, "**Personality-Based Affective Adaptation Methods for Intelligent Systems**," *Sensors*, vol. 21, no. 1, p. 163, 2021, doi: [10.3390/s21010163](https://doi.org/10.3390/s21010163).
15. S. Bobek and G. J. Nalepa, "**Augmenting Automatic Clustering with Expert Knowledge and Explanations**," in *Computational Science - ICCS 2021 - 21st International Conference, Krakow, Poland, June 16-18, 2021, Proceedings, Part IV*, 2021, vol. 12745, pp. 631–638, doi: [10.1007/978-3-030-77970-2\\_48](https://doi.org/10.1007/978-3-030-77970-2_48).

## 2020

1. S. Bobek, M. M. Tragarz, M. Szelażek, and G. J. Nalepa, "**Explaining Machine Learning Models of Emotion Using the BIRAFFE Dataset**," in *Artificial Intelligence and Soft Computing - 19th International Conference, ICAISC 2020, Zakopane, Poland, October 12-14, 2020, Proceedings, Part II*, L. Rutkowski, R. Scherer, M. Korytkowski, W. Pedrycz, R. Tadeusiewicz, and J. M. Żurada, Eds. Springer, 2020, pp. 290–300, doi: [10.1007/978-3-030-61534-5\\_26](https://doi.org/10.1007/978-3-030-61534-5_26).
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3. G. J. Nalepa, M. Atzmueller, M. Araszkiwicz, and P. Novais, Eds., "**Proceedings of the 2nd EXplainable AI in Law Workshop (XAILA 2019) co-located with 32nd International Conference on Legal Knowledge and Information Systems (JURIX 2019), Madrid, Spain, December 11, 2019**," 2020, vol. 2681, [Online]. Available: <http://ceur-ws.org/Vol-2681>.
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  6. K. Kutt, D. Drazyk, M. Szelazek, S. Bobek, and G. J. Nalepa, “**The BIRAFFE2 Experiment. Study in Bio-Reactions and Faces for Emotion-based Personalization for AI Systems,**” *CoRR* abs/2007.15048, 2020, [Online]. Available: <https://arxiv.org/abs/2007.15048>.
  7. S. Bobek, A. Trzcionkowska, E. Brzychczy, and G. J. Nalepa, “**Cluster Discovery from Sensor Data Incorporating Expert Knowledge,**” in *Proceedings of the International Workshop on Knowledge Representation and Representation Learning co-located with the 24th European Conference on Artificial Intelligence (ECAI 2020), Virtual Event, September, 2020*, 2020, vol. 3020, pp. 10–21, [Online]. Available: [KR4L\\_paper\\_5.pdf](#).

## 2019

1. B. Gizycka, K. Kutt, and G. J. Nalepa, “**Knowledge-based Development of Games Using Design Patterns Ontology,**” in *Proceedings of the Posters and Demo Track of the 15th International Conference on Semantic Systems co-located with 15th International Conference on Semantic Systems (SEMANTICS 2019), Karlsruhe, Germany, September 9th - to - 12th, 2019*, 2019, vol. 2451, [Online]. Available: [paper-12.pdf](#).
2. M. Z. Lepicki and S. Bobek, “**Affective Context-Aware Systems: Architecture of a Dynamic Framework,**” in *Artificial Intelligence and Soft Computing - 18th International Conference, ICAISC 2019, Zakopane, Poland, June 16-20, 2019, Proceedings, Part II*, 2019, vol. 11509, pp. 575–584, doi: [10.1007/978-3-030-20915-5\\_51](#).
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4. K. Kluza and G. J. Nalepa, “**Formal Model of Business Processes Integrated with Business Rules,**” *Inf. Syst. Front.*, vol. 21, no. 5, pp. 1167–1185, 2019, doi: [10.1007/s10796-018-9826-y](#).
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9. M. Marcos et al., Eds., “**Artificial Intelligence in Medicine: Knowledge Representation**

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  14. G. J. Nalepa, K. Kutt, and S. Bobek, “**Mobile platform for affective context-aware systems,**” *Futur. Gener. Comput. Syst.*, vol. 92, pp. 490-503, 2019, doi: [10.1016/j.future.2018.02.033](https://doi.org/10.1016/j.future.2018.02.033).
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6. G. J. Nalepa, “**Techniques for Construction and Integration of Rule Bases,**” in *Advances in Data Analysis with Computational Intelligence Methods - Dedicated to Professor Jacek Żurada,* 2018, vol. 738, pp. 203-223, doi: [10.1007/978-3-319-67946-4\\_8](https://doi.org/10.1007/978-3-319-67946-4_8).
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