

Publication List of Wilfried Elmenreich

Journal Papers

- [1] Hafsa Bousbiat, Anthony Faustine, Christoph Klemenjak, Lucas Pereira, and Wilfried Elmenreich. Unlocking the full potential of neural NILM: On automation, hyperparameters & modular pipelines. *IEEE Transactions on Industrial Informatics*, pages 1–9, 9 2022.
- [2] Franzisca Weder, Renate Hbner, Wilfried Elmenreich, Robert Sposato, and Stefanie Mertl. Re-framing sustainability in a pandemic. understanding sustainability attitudes, behaviors, visions and responsibilities for a post-covid future. *Journal of Sustainability Research*, 6 2022.
- [3] Khalil Alrahman Youssefi Darmian, Modjtaba Rouhani, Habib Rajabi Mashhadi, and Wilfried Elmenreich. A swarm intelligence-based robotic search algorithm integrated with game theory. *Applied Soft Computing*, 122, 4 2022.
- [4] Franzisca Weder, Jennifer Yarnold, Stefanie Mertl, Rentate Hübner, Wilfried Elmenreich, and Robert Sposato. Social learning of sustainability in a pandemicchanges to sustainability understandings, attitudes, and behaviors during the global pandemic in a higher education setting. *Sustainability*, 14(6):1–18, 2022.
- [5] H. Bousbiat, G. Leitner, and W. Elmenreich. Ageing safely in the digital era: A new unobtrusive activity monitoring framework leveraging on daily interactions with hand-operated appliances. *Sensors*, 22(4), 2022.
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- [7] Sascha Einspieler, Benjamin Steinwender, and Wilfried Elmenreich. Mixed-triggered communication with limited elastic slot boundaries. *Microprocessors and Microsystems*, 86, October 2021.
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- [11] Christoph Klemenjak, Stephen Makonin, and Wilfried Elmenreich. Investigating the performance gap between testing on real and denoised aggregates in non-intrusive load monitoring. *Energy Informatics*, 4, 2021.
- [12] Melanie Schranz, Gianni di Caro, Thomas Schmickl, Wilfried Elmenreich, Farshad Arvin, Ahmet Sekercioglu, and Micha Sende. Swarm intelligence and cyber-physical systems: Concepts, challenges and future trends. *Swarm and Evolutionary Computation*, 60, 2021.
- [13] Midhat Jdeed, Melanie Schranz, and Wilfried Elmenreich. A study using the low-cost swarm robotics platform spiderino in education. *Computers and Education Open*, 2020.
- [14] Heiko Hamann, Melanie Schranz, Wilfried Elmenreich, Vito Trianni, Carlo Pinciroli, Nicolas Bredeche, and Eliseo Ferrante. Editorial: Designing self-organization in the physical realm. *Frontiers in Robotics and AI*, 7(164), 2020.
- [15] Melanie Schranz, Micha Sende, Martina Umlauft, and Wilfried Elmenreich. Swarm robotic behaviors and current applications. *Frontiers in Robotics and AI*, 7(36), 2020.
- [16] Christoph Klemenjak, Christoph Kovatsch, Manuel Herold, and Wilfried Elmenreich. A synthetic energy dataset for non-intrusive load monitoring in households. *Scientific Data*, 7(1):1–17, 2020.
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Conference and Workshop Papers

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