

Methods and AI solutions for anomaly detection and potential use cases in modern work environment

Roberts Volkovics, PhD candidate
Vidzeme University of Applied Sciences (ViA)

PhD studies in methods and AI solutions for anomaly detection, research done in different domains by creating models for different use cases.

Research projects

2023 - Anomaly detection - review of methods, tools and algorithms. Roberts Volkovičs Modelling of sociotechnical systems. Vidzeme University of Applied Sciences Valmiera, Latvia. This research was funded by the European Commission, Research Executive Agency grant number 101079206, "Twinning in Environmental Data and Dynamical Systems Modelling for Latvia"

2024 - Environmental Data and Digital Twins for Road Traffic Safety in Rural Areas, Roberts Volkovičs Modelling of sociotechnical systems Vidzeme University of Applied Sciences Valmiera, Latvia, Viesturs Bambāns Modelling of sociotechnical systems Vidzeme University of Applied Sciences Valmiera, Latvia, Dr.sc.ing. Ginta Majore Modelling of sociotechnical systems Vidzeme University of Applied Sciences Valmiera, Latvia. This research was funded by the European Commission, Research Executive Agency grant number 101079206, "Twinning in Environmental Data and Dynamical Systems Modelling for Latvia"

Research papers

2023 - Anomaly detection - review of methods, tools and algorithms. Roberts Volkovičs Modelling of sociotechnical systems. Vidzeme University of Applied Sciences Valmiera, Latvia.

2024 - Environmental Data and Digital Twins for Road Traffic Safety in Rural Areas, Roberts Volkovičs Modelling of sociotechnical systems Vidzeme University of Applied Sciences Valmiera, Latvia, Viesturs Bambāns Modelling of sociotechnical systems Vidzeme University of Applied Sciences Valmiera, Latvia, Dr.sc.ing. Ginta Majore Modelling of sociotechnical systems Vidzeme University of Applied Sciences Valmiera, Latvia.

Conference presentations

2023 - Environment. Technology. Resources. Rezekne, Latvia Proceedings of the 14th International Scientific and Practical Conference. Anomaly detection - review of methods, tools and algorithms. Roberts Volkovičs Modelling of sociotechnical systems. Vidzeme University of Applied Sciences Valmiera, Latvia.

2024 - Environment. Technology. Resources. Rezekne, Latvia Proceedings of the 15th International Scientific and Practical Conference. Environmental Data and Digital Twins for Road Traffic Safety in Rural Areas, Roberts Volkovičs Modelling of sociotechnical systems Vidzeme University of Applied Sciences Valmiera, Latvia, Viesturs Bambāns Modelling of sociotechnical systems Vidzeme University of Applied Sciences Valmiera, Latvia, Dr.sc.ing. Ginta Majore Modelling of sociotechnical systems Vidzeme University of Applied Sciences Valmiera, Latvia.