1. Record Nr. UNINA9911047670603321

Autore	Fischer Lukas
Titolo	Database and Expert Systems Applications - DEXA 2025 Workshops : AISys and AI4IP, Bangkok, Thailand, August 25–27, 2025, Proceedings / / edited by Lukas Fischer, Ulrich Göhner, Sebnem Gül-Ficici, Dirk Jacob, Gabriele Kotsis, A Min Tjoa, Ismail Khalil
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2026
ISBN	3-032-02003-4
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (175 pages)
Collana	Communications in Computer and Information Science, , 1865-0937 ; ; 2615
Altri autori (Persone)	GohnerUlrich Gül-FiciciSebnem JacobDirk KotsisGabriele TjoaA Min KhalilIsmail
Disciplina	005.74
Soggetti	Database management Data mining Data structures (Computer science) Information theory Software engineering Artificial intelligence Computer engineering Computer networks Database Management Data Mining and Knowledge Discovery Data Structures and Information Theory Software Engineering Artificial Intelligence Computer Engineering and Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

Nota di contenuto	-- AI System Engineering: Math, Modelling and Software. -- Exploring the benefits of iterative retrieval-augmented generation for risk mitiga tion in LLM response. -- TrustAI: Designing and Implementing a Trustworthy and User-Centered AI Plat form. -- Collaborative Trustworthy Foundation Model Framework: An Environmental Sustainability Use-Case to Detect Contamination Objects in Organic Waste Streams. -- Optimisation of Industrial Production with AI Algorithms. -- Efficient Federated Learning Integration into Existing MLOps Pipelines via Centralized Model Management. -- Deep Photometric Stereo for Tool Wear Inspection. -- Multi-Objective Reinforcement Learning for Energy-Efficient Industrial Control. -- Deep learning-based defect detection in laser powder bed fusion. -- Prediction of CNC Manufacturing Time Under Real-World Conditions Using Graph Convolutional Networks. -- A Vision-Guided Approach to Pick-and-Place Robotics: From Assembly Drawings to Industrial Assembly Automation. -- Towards Real-time Tool Wear Detection on Edge Devices: A Lightweight Di mensionality Reduction Approach for Spindle Integrated Cutting Force Sensor Data. -- Energy Optimized Piecewise Polynomial Approximation Utilizing Modern Ma chine Learning Optimizers.
Sommario/riassunto	This volume constitutes the refereed proceedings of the 7th International Workshop on AI System Engineering: Math, Modelling and Software, AISys 2025 and the First International Workshop on Optimisation of Industrial Production with AI Algorithms, AI4IP, co-located with the 36th International Conference on Database and Expert Systems Applications, DEXA 2025, which took place in Bangkok, Thailand, during August 25-27, 2025. The 11 full papers were thoroughly reviewed and selected from a total of 23 submissions. They are organized in topical sections as follows: AI System Engineering: Math, Modelling and Software; and Optimization of Industrial Production with AI Algorithms.