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Curriculum, Resources, Class Size, Learning Environment, and Support Services Using NLP -- Advanced Learning Analytics with AI: Analyzing Stakeholder Perceptions of Feedback, Assessment, Engagement, and Faculty Development in MENA Higher Education Using NLP -- Maintaining Life Insurance Contracts of Joint Commercial Banks with Insurance Links -- Leveraging Big Data and AI for Improved Energy Efficiency in MENA Utilities: A Framework for Consumption Management and Operational Insights -- SMOTE and Optimized Forest for Software Defect Prediction -- Automatic reasoning-code generation using NLP-based entity relations identification -- Enhancing Credit Card Fraud Detection Using Hybrid Machine Learning Models with Federated Learning Prospects.

Sommario/riassunto	This book presents a collection of high-quality, peer-reviewed research papers from 9th International Conference on Information System Design and Intelligent Applications (ISDIA 2025), held in Dubai, UAE, from 3–4 January 2025. It covers a wide range of topics in computer science and information technology, including data mining and data warehousing, high-performance computing, parallel and distributed computing, computational intelligence, soft computing, big data, cloud computing, grid computing, cognitive computing, and information security.