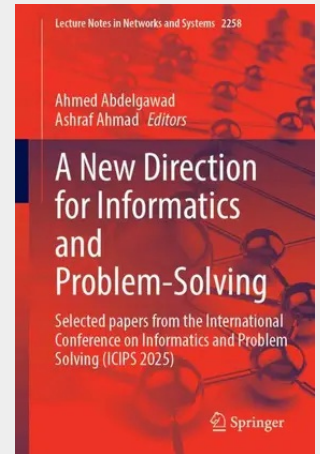


A New Direction for Informatics and Problem-Solving

Selected Papers from the International Conference on Informatics and Problem Solving (ICIPS 2025)

This book brings together peer-reviewed research that bridges competitive programming, artificial intelligence, data analytics, and modern computing education with practical applications and emerging technologies. It highlights innovative approaches for developing problem-solving skills, advancing trustworthy AI, enhancing learning through intelligent systems, and addressing real-world challenges through interdisciplinary research. Covering topics ranging from programming education and large language models to knowledge graphs, machine learning, human-machine interaction, and student well-being, this book reflects current research directions presented at ICIPS 2025. It is intended for researchers, academics, graduate students, and practitioners in computer science, artificial intelligence, and educational technologies. This book serves as a valuable reference for research, teaching, curriculum development, and future innovations in intelligent computing and problem solving.

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