

1. Record Nr.	UNINA9911031629603321
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Titolo	Artificial Intelligence-Empowered Software Engineering 2024 : Proceedings of the 15th International Conference on Artificial Intelligence-Empowered Software Engineering (AIESE2024, formerly JCKBSE), Piraeus, Greece, August 27–30, 2024 // edited by Maria Virvou, Yoshinori Tanabe, Lakhmi C. Jain
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-031-98410-2
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (605 pages)
Collana	Learning and Analytics in Intelligent Systems, , 2662-3455 ; ; 52
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Disciplina	006.3
Soggetti	Computational intelligence Software engineering Artificial intelligence Computational Intelligence Software Engineering Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	AI Empowered Software Engineering A Retrospective on Thirty Years of Contributions in Knowledge Based Software Engineering and AI from JCKBSE to AIESE2024 -- Introduction to the 15th International Conference on AI Empowered Software Engineering AIESE 2024 Contributions, Emerging Themes, and Future Vision -- Machine Learning Software Engineering based on Multi view Modeling with Patterns and MLOps -- Artemis Interactive Learning with Generative AI -- Privacy under Pressure Individual Rights, Big Data, and the Growing Generative AI Boom -- Balancing Autonomy and Ethics in AI Empowered Software Engineering by Addressing User Centred Requirements Tension Keynote -- Artificial Intelligence or Cybernetics Why Not Cybernetic Artificial Intelligence CAI A New Scientific Field -- Preventing a Nuclear September 11th Challenges, Solutions, and Concerns in AI empowered Analysis Software in Sensors -- Toward the

Formation of Common Understanding of Arts and Mental Health Questionnaire based Analysis of Perception on Arts and Therapy -- Comparison of decision making technologies and basic concepts of Naturally Decision Intelligence -- Remote Play System for Adaptive Sports Players with Severe Physical Disabilities -- Tutorial system displaying on other device following video game progress -- User experience in serious games adaptivity in the plot and environment of the game -- Architecture Design for Enterprise Real time Systems -- A Method to Improve the Consistency Between SRS and StRS Based on Backward Traces -- Project Practice Based Anti Patterns for Machine Learning Projects -- A Support Method to Develop Interactive Applications of Novel Devices by Using Network Analysis Approach -- A Simple Negative Benchmark Generation for Safety Checking -- Role of University in Dual Use AI Technology -- Unified File Storage With Self Hosted Nodes -- A proposed architecture for an Intelligent Cooking Fire Prevention System Incorporating IoT and Fuzzy Logic -- Enhancing Soft Skills Alongside Hard Skills for Programming and Software Engineering through an Intelligent Educational Adventure Game -- AI empowered Approaches to Border Sanitization in Frequent Itemset Mining -- Evaluating Stakeholder Decision-Making Trust and Efficiency in AI Empowered Energy Software A VIRSTI Model Approach within an Agile Process -- Using ChatGPT in Requirements Engineering Processes Preliminary Report -- Graph Theory Based Value Estimation of Artificial Intelligence Interventions the Case of the Patient Journey -- The potential of LLM generated reports in DevSecOps -- Artificial Intelligence Empowered Autonomous Software Moral Dilemmas, Ethics, Regulations, Challenges and Requirements Interdisciplinary Panel Discussion -- Navigating the Nexus Leveraging Deep Learning for Social Network Analysis -- Incorporating Fuzzy Logic in Intelligent Software Systems -- Evaluating Multimodal Large Language Models Benchmarks, Methods, and Analytical Approaches.

#### Sommario/riassunto

This book contains extended versions of the works and new research results presented at the 15th International Conference on Artificial Intelligence-empowered Software Engineering (AIESE2024, formerly Joint Conference on Knowledge-based Software Engineering, JCKBSE), University of Piraeus, August 27–30, 2024, Greece. AIESE (formerly JCKBSE) is a well-established international biennial conference that focuses on the applications of Artificial Intelligence on Software Engineering. Its 15th edition was organized by the Department of Informatics of the University of Piraeus, Greece. This book is a valuable resource for experts and researchers in the field of (artificial intelligence-empowered and knowledge-based) software engineering. It is also valuable to general readers in the fields of artificial and computational intelligence and, more generally, computer science, who wish to learn more about this exciting research field of software engineering and its applications. An extensive list of bibliographic references at the end of each chapter helps readers to probe deeper into the application areas of interest to them.