Table of Contents

Real-World Validation of Arkangel AI: A Conversational Agent for Real-Time, Evidence- Based Medical Question-Answering 1
Natalia Castano Villegas, Isabella Llano, Maria Camila Villa, and Jose David Gomez Zea

AI for Referable Knee Radiograph Detection in Primary Care: A Pathway-Specific Taxonomy for Dataset Generation from Reports 3
Imanol Pinto, Alvaro Olazaran, David Jurio, Miguel Sainz, Natalia Alvarez, and Mikel Galar

Implementation of AI Characters for Simulation of Root Cause Analysis in the ICU Setting 10
Yuqi Hu, Qiwen Xiong, Zhenzhen Qin, Brandon Watanabe, Yujing Wang, and Ilmi Yoon

De-Identifying German Clinical Notes Under Small-Corpus Constraints: Transferring State-of-the-Art Approaches from English Benchmarks 16
Anna-Lena Artmann

Evaluating Different Explainability Methods for Coronary Artery Segmentation 22
Apostolos Stogiannis, Nikos Tsolakis, Miriam Gutierrez, Laura Valeria Perez, Karen Lopez-Linares, Christoniki Maga-Nteve, Georgios Meditskos, and Stefanos Vrochidis

Assessing the Effectiveness of an Artificial Intelligence Tool for Note-taking in a General Practice Setting 31
Shreya Shah, Aarya Shetye, and Carol Habib

SmartCHANGE: From Risk Prediction to Daily Habits Through AI and Gamified Lifestyle changes 37
Valentina Di Giacomo, Federica Sacca, Lotte van der JagdJagt, Harm op den Akker, Martijn Vastenburg, and Elena Mancuso

Interpreting Human Ambiguity through Neuro-Fuzzy Intelligence in Holistic Healthcare Lifecycle 40
Andrea Pitrone and Intissar Haddiya

GuardianRx: An AI-Driven Predictive Tool for Monitoring Emerging Psychoactive Drug Trends 48
Dip Patel, Balasree S. Pillai, Roopa Foulger, Safura Sultana, Christopher S. Gondi, and Rima Shrestha

Adapting TimelyGPT Model for Patient Laboratory Test Value Forecasting 50
Jiacheng Zhou, Yanxuan Yu, Julien W. Lee, Andrew Laine, and Michael S. Hughes

Early Identification of Infant Brain Abnormalities via Efficient 3-D CNN Screening of MRI Scans 55
Janam Chahal, Sindhu Ghanta, and Kamalashree S

Enhancing MRI Analysis in Temporal Lobe Epilepsy: Sequential Classification and Segmentation of Hippocampal Structures 61
Vihan Bhattacharjee, Kamalasree Sudhakar, and Sindhu Ghanta

Heart-Rate–Based Work–Rest Scheduling in Construction 70
Tala Yunis, Issam Srour, and Karim Zahed

Enhancing CineMRI Clinical Documentation by Detecting and Correcting Ambiguity with Large Language Models 72
Guillermo Villanueva Benito, Paula Petrone, Matias Calandrelli, Martin Descalzo, Sandra Pujadas, and Juan Fernandez

Toward a Unified Public X-ray Dataset Integrating Multiple Databases to Advance Complex Fracture Analysis 75
Fatma Atitallah, Assem Thabet, Johannes C. Ayena, and Neila Mezghani

Personalized Medicine Meets Artificial Intelligence: A Systematic Literature Review 82
Xin Zhao and Parth Reshamwala