

The 3rd IEEE Workshop on Big Data Analytics in Healthcare

Workshop Chairs: Alex MH Kuo, PhD - Juan C. Trujillo, PhD - Matteo Mantovani, PhD - Eliana Pastor, PhD

Time	Title	Presenter/Author
8:30 – 8:40	Welcome	Matteo Mantovani
8:40 – 9:00	FPP-Hunter: Expert-Guided Discovery of Functional Path Patterns	Daniel Korn, Jon-Michael Beasley, Kara Schatz, Pei-Yu Hou, Alexander Tropsha, and Rada Chirkova
9:00 – 9:20	A Secure and Privacy-Preserving Framework for Healthcare Data Management Using Deterministic Additive Noise and Differential Privacy in Cloud Environments.	Yousef Alsaud and Danda Rawat
9:20 – 9:40	Big data analytic of US Medicare Claims of healthcare service informatics and billing fraud	Dillon Chrimes and Maya El-Lanky
9:40 – 10:00	More than the Sum of its Parts: Applying Topic Modeling and Explainable AI to Deep Learning in Understanding Problematic Opioid Use	T. Elizabeth Workman, Joel Kupersmith, Ying Yin, and Qing Treitler-Zeng
10:00 – 10:30	Coffee Break	
10:20 – 10:40	Privacy-Preserving Big Data Analytics Using Homomorphic Encryption: A Comprehensive Evaluation in Healthcare Applications	Chandradutt Patel
10:40 – 11:00	Learning Time Synchronization in Wearable Sensor Fusion for Human Activity Recognition	Shicheng Zu and Yucheng Jin
11:00 – 11:20	The Soundex Blocking: A Novel Blocking Approach for Record Linkage	Nidhibahen Shah, Ahmed Soliman, Joyanta Basak, Sartaj Sahni, Kenneth Haase, Anup Mathur, Krista Park, Daniel Weinberg, Jonathan White, and Sanguthevar Rajasekaran
11:20 – 11:40	Semantic grounding of LLMs using knowledge graphs for query reformulation in medical information retrieval	Antonela Tommasel and Ira Assent
11:40 – 11:50	Closing Remarks	Matteo Mantovani