



ICCAI'21 PROGRAM



“AI in Critical Illness: Emergence and Emergent Issues”

Day 1	Wednesday, September 8, 2021
8:00-8:10	Introduction and Welcome (Gilles Clermont, SCAI President)
8:10-8:40	Keynote (P0)- Clinicians on the move: the promise of data science in intensive care (M. Ceccone)
8:40-9:05	Thematic session I: Health Data democratization: challenges Session Chair(s): S. Zenker (Univ. of Bonn, Bonn, Germany)
9:05-9:30	
9:30-9:55	
9:55-10:45	Discussion round table
10:45-11:30	Lunch Break
11:30-12:10	Thematic Session II: Mechanistic modeling and therapeutics Session Chair(s): Y. Vodovotz (University of Pittsburgh, Pittsburgh, PA, USA)
12:10-12:35	
12:35-13:00	
13:00-14:00	Discussion round table

Day 2	Thursday, September 9, 2021
8:00-8:25	Thematic session III: Modern Reinforcement Learning (RL) in Critical Care Session Chair(s): G. Clermont (Univ. of Pittsburgh, Pittsburgh, PA, USA)
8:25-8:50	
8:50-9:50	
9:50-10:50	SCAI Business Meeting
10:50-11:30	Lunch Break

	SCAI and JCC: Jan Bakker	
	Thematic Session IV: Data Science in Intensive Care: the vision	
	Session Chair(s): G. Clermont (Univ. of Pittsburgh, Pittsburgh, PA, USA)	
11:30-11:55	P9. SCCM: Data Science section	(R.D. Stevens, Johns Hopkins Univ. School of Medicine, Baltimore, MD, USA)
11:55-12:20	P10. ESICM: Data Science section	(A. Ercole, Univ. of Cambridge, UK)
12:20-12:45	P11. The Joint Data Science Task Force	(M. Churpek, Dept. of Medicine, Univ. of Wisconsin, Madison, WI, USA)
12:45-13:30	<u>Abstract presentations</u>	
13:30-14:00	Discussion round table	

Day 3	Friday, September 10, 2021	
8:00-8:10	Introduction and Welcome (Yoram Vodovotz, Univ. of Pittsburgh)	
8:10-8:40	Keynote - Accelerating trust in Healthcare AI (Sean Manion, ConsenSys Health, USA)	
	Thematic session V: Learning across environments	
	Session Chair(s): L. Hinske (Univ. Munnich, Germany)	
8:40-9:05	P12. Privacy for federated Deep Learning – What can we learn from Imaging (D. Rückert, Technical University of Munich, Munich, Germany)	
9:05-9:30	P13. OMOP approach for federated learning	(L. Neuman)
9:30-9:55	P14. Learning across environments – Future, Fiction, or Both	(NVIDIA; TBD)
9:55-10:45	Discussion round table	
10:45-11:30	Lunch Break	
	Keynote - Explainable and Interpretable AI (C. Rudin, Duke Univ., Durham, NC, USA)	
	Thematic Session VI: AI: please explain yourself	
	Session Chair(s): Randall Moorman (Univ. of Virginia, Charlottesville, VA, USA)	
11:30-12:10	P14. Knowing the Unknowable: Model Interpretability in EHR-based Risk Prediction (M. Engelhard)	
12:10-12:35	P15. Responsible, Explainable AI Modeling Engages Domain Experts from the Start (A. Flower)	
12:35-13:35	Discussion round table	
13:35-14:00	Concluding remarks	