ICCAI'20 PROGRAM
"Meaningful AI in the time of COVID"

Day 1	Thursday, September 10, 2020
8:50–9:00	***Introduction by SCAI President Gilles Clermont***
9:00–9:30	**AI in Acute Care: Is it fall or spring?**—M. Matheny (Vanderbilt Univ. Medical Ctr)
9:30-12:30	<u>Thematic session I:</u> **Knowledge-driven AI for injury and critical care: Blending Data and Mechanism** Session Chair: Gary An P1. Functional hemodynamics and closed-loop resuscitation—M. Pinsky (Univ. of Pittsburgh) P2. Model-driven AI for wound healing—Y. Vodovotz (Univ. of Pittsburgh) **10:30-10:45 Morning Break** P3. Causal models as core therapeutic engines—O. Gajic (Mayo Clinic) P4. Reinforcement learning: offline and online—M. Komorowski (Imperial College) Discussion round table: **Can data-driven AI work in complex illnesses?** **12:30-13:30 Lunch Break**
13:30-16:30	<u>Thematic Session II:</u> **Does more data imply more clinical value?** Session Chairs: Beth Lusczek and Gilles Clermont P5. Pervasive sensing in critical care—A. Bihorac and P. Rashidi (Univ. of Florida) P6. Wearable and embedded sensors, how can they help?—H. Dohse (Tour de Heart) **15:00-15:15 Afternoon break**
13:30-16:30	P7. The sepsis transcriptome for treatment selection and prediction—H Wong (Cincinnati Children's Hosp. Med.Ctr)

P8. Classification and predictive enrichment—C. Calfee (UCSF)

Discussion round table: **More data, more power?**

Day 2	Friday, September 11, 2020
9:00–9:30	**Reflection to honor 9/11** **Keynote address:** The future of AI in Health Care—Leo Celi (MIT, Harvard Medical School)
9:00–12:30	**Thematic session III:** **Collaborative Research in Data Science: Strength in Diversity** Session Chair: TBC P9. The ESICM/SCCM Data Science Joint Task Force: Vision and Mission—Gilles Clermont (Univ. of Pitt) P10. Beyond MIMIC and eICU: What's coming—TBC P11. Data Standardization and Harmonization: proximal challenges—Ari Ercole (Cambridge University) **10:30-10:45 Morning Break** P12. Developing Good Machine Learning Practice—David Maslove (Queen's University) P13. Learning and validating across environments: tools and examples—Chris Hinske (Univ. of Munich) Discussion round table: **A common vision for critical care** **12:30-13:30 Lunch break**
13:30-15:30	**Thematic session IV:** **AI and Data Science for COVID-19: Blending Mechanism and Data Science** Session Chair: Yoram Vodovotz P.14 Clinical features of COVID-19 patients—S. Park (Columbia Univ.) P.15 Using AI to forecast adverse advents in COVID-19 patients—Chris Barrett (UVa)

	P.16 Forecasting impact of COVID-19: Pros and cons of pandemic prediction models—Carson Chow (NIH) P.17 Mechanistic modeling of inflammation/immunity in COVID-19—Judy Day (Univ. of Tennessee) Discussion round table: **Meaningful modeling for COVID-19**
15:45-17:00	**15:30-15:45 Afternoon Break** **Thematic session V: From Data to Action: Impactful AI** Session Chair: Matt Churpek P18. EHR for real-time sepsis prediction—C. Umscheid (Univ. of Chicago) P19. From Prediction to Action - eCART to Pathways—M. Churpek (Univ. of Wisconsin) P20. Predictive Analytics Monitoring at the Bedside—R. Moorman (UVa) Discussion round table: **Translating algorithms to patient care**
17:00-18:00	**17:00-17:30 Meeting wrap-up and Conclusions: Tim Buchman** (Emory Univ.) **17:30-18:00 SCAI business meeting**