



## ICCAI'20 PROGRAM

### “Meaningful AI in the time of COVID”

\* All times are Eastern Time \*

Day 1	Thursday, September 10, 2020
8:50–9:00	<i>Introduction by SCAI President Gilles Clermont</i>
9:00–9:30	<b>AI in Acute Care: Is it fall or spring?</b> —M. Matheny (Vanderbilt Univ. Medical Ctr)
9:30-12:30	<b><u>Thematic session I: Knowledge-driven AI for injury and critical care: Blending Data and Mechanism</u></b> 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)  <b>10:30-10:45 Morning Break</b>  P3. Causal models as core therapeutic engines—O. Gajic (Mayo Clinic) P4. Reinforcement learning: offline and online—M. Komorowski (Imperial College)  Discussion round table: <b>Can data-driven AI work in complex illnesses?</b>  <b>12:30-13:30 Lunch Break</b>
13:30-16:30	<b><u>Thematic Session II: Does more data imply more clinical value?</u></b> Session Chairs: Beth Luszczek  P5. Pervasive sensing in critical care—A. Bihorac and P. Rashidi (Univ. of Florida) P6. Wearable and embedded sensors, how can they help?— <a href="#">H. Dohse</a> (Tour de Heart)



<b>13:30-16:30</b>	<p>P7. The sepsis transcriptome for treatment selection and prediction—H Wong (Cincinnati Children’s Hosp. Med.Ctr)</p> <p><b>15:00-15:15 Afternoon break</b></p> <p>P8. Classification and predictive enrichment—C. Calfee (UCSF)</p> <p>Discussion round table: <b>More data, more power?</b></p>
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<b>Day 2</b>	<b>Friday, September 11, 2020</b>
<b>9:00-9:30</b>	<p><b>Reflection to honor 9/11</b>  <b>Keynote address:</b> The future of AI in Health Care—Leo Celi (MIT, Harvard Medical School)</p>
<b>9:00-12:30</b>	<p><b><u>Thematic session III: Collaborative Research in Data Science: Strength in Diversity</u></b>            Session Chair: Gilles Clermont</p> <p>P9. The ESICM/SCCM Data Science Joint Task Force: Vision and Mission—G. Martin (Emory Univ.)            P10. Opportunities for collaborative data science in neurocritical care—R. Stevens (Johns Hopkins Univ.)            P11. Data Standardization and Harmonization: proximal challenges—A. Ercole (Cambridge Univ.)</p> <p><b>10:30-10:45 Morning Break</b></p> <p>P12. Developing Good Machine Learning Practice—D. Maslove (Queen’s University)            P13. Learning and validating across environments: tools and examples—C. Hinske (Univ. of Munich)</p> <p>Discussion round table: <b>A common vision for critical care</b></p> <p><b>12:30-13:30 Lunch break</b></p>



<b>13:30-15:30</b>	<p><b><u>Thematic session IV: AI and Data Science for COVID-19: Blending Mechanism and Data Science</u></b> Session Chair: Yoram Vodovotz</p> <p>P.14 Clinical features of COVID-19 patients—S. Park (Columbia Univ.) P.15 Using AI to forecast adverse advents in COVID-19 patients—C. Barrett (UVa)</p> <p>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)</p> <p>Discussion round table: <b>Meaningful modeling for COVID-19</b></p>
<b>15:45-17:00</b>	<p><b>15:30-15:45 Afternoon Break</b></p> <p><b><u>Thematic session V: From Data to Action: Impactful AI</u></b> Session Chair: Matt Churpek</p> <p>P18. Using a healthcare system- based AI unit to address system challenges —C. Umscheid (Univ. of Chicago) P19. From Prediction to Action - eCART to Pathways—<a href="#">M. Churpek</a> (Univ. of Wisconsin) P20. Predictive Analytics Monitoring at the Bedside—R. Moorman (UVa)</p> <p>Discussion round table: <b>Translating algorithms to patient care</b></p>
<b>17:00-18:00</b>	<p><b>17:00-17:30 Meeting wrap-up and Conclusions: Tim Buchman (Emory Univ.)</b></p> <p><b>17:30-18:00 SCAI business meeting</b></p>