



ICCAI'19 PROGRAM

Wednesday	September 25, 2019
19:00	<i>SCAI Board and Conference Organizers Dinner</i> (Invitation only)

Thursday am	September 26, 2019
8:00–8:30	<i>Welcome</i>
8:30–9:30	<i>Title: STATE OF SCIENCE and STATE OF SCAI KEYNOTE and DISCUSSION</i> <u>Speakers:</u> <ol style="list-style-type: none"> 1. Tim Buchman (Emory University): BARDA’s Solving Sepsis Program (Keynote) 2. Mitchell Cohen (University of Colorado): State of SCAI
9:30–10:00	<i>Coffee break</i>
10:00–12:00	<i>Title: Time-series analytics for early detection of patient deterioration</i> Moderator(s): Moorman <u>Speakers:</u> <ol style="list-style-type: none"> 1. Amanda Zimmet (University of Virginia): Functional principal component analysis of heart rate characteristics time series (25 min) 2. Randall Moorman (University of Virginia): New findings in predictive analytics at the bedside (25 min) 3. Frank Jacono (Case Western Reserve University): Cardioventilatory pattern variability and brain stem inflammation during acute illness (25 min) 4. Ioannis P. Androulakis (Rutgers University): Circadian rhythms in critical illness – Implications for the ICU environment, the critical care, the health professionals and the patient (25 min) Open Discussion (20 min)
12:00-13:00	<i>Lunch</i>

Thursday pm	September 26, 2019
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13:00–15:00	<p>Title: <i>Linking Variability in Respiratory and Cardiac Rhythms to Inflammatory Networks</i></p> <p><u>Moderator(s):</u> Jacono/Zamora</p> <p><u>Speakers:</u></p> <ol style="list-style-type: none"> Ruben Zamora (University of Pittsburgh): Data-Driven Modeling of Cytokine Networks in Pediatric Acute Liver Failure and Sepsis (25 min) William Barnett (Georgia State University): Brainstem mechanisms of cardio-ventilatory coupling (25 min) Ted Dick (Case Western Reserve University): Brainstem Inflammation, Ventilatory Pattern Variability and Cardioventilatory Coupling in Rats (25 min) Ben Vandendriessche (Byteflies): Patient State Tracking by Classifying Multiscalar Physiologic Waveform Features (25 min) <p>Open Discussion (20 min)</p>
15:00–15:30	<i>Coffee break</i>
15:30–17:00	<p>Title: <i>Practical aspects of collaborative big-data research I</i></p> <p><u>Moderator(s):</u> Clermont/Zenker Gilles Clermont: Introduction (5 min)</p> <p><u>Speakers:</u></p> <ol style="list-style-type: none"> Tell Bennett (Children's Hospital Colorado) (TBA): Interoperability standards, data exchange and data models (25 min) Rahul Kashyap (Mayo Clinic): The C2D2 project, a data model for critical care (25 min) Robert Stevens (Johns Hopkins Medicine): Data science and neurological intensive care (25 min) <p>Open Discussion (20 min)</p>
18:00-20:30	<i>Social Program/Banquet</i>

Friday am	September 27, 2019
8:30–10:55	<p>Title: <i>Precision forecasting and control of sepsis and trauma: what it actually takes</i></p> <p><u>Moderators(s):</u> An/Vodovotz</p> <p><u>Speakers:</u></p>



	<p>1. Yoram Vodovotz (Univ. of Pittsburgh): Dynamic data-driven models: A Pathway to mechanistic computational models of critical illness (25 min).</p> <p>2. Gary An (Univ. of Vermont): Why current approaches to find a way to treat sepsis won't work, and what must be done instead (25 min)</p> <p>3. Judy Day (Univ. of Tennessee): Approaching Precision Medicine in Sepsis as a Control Discovery Problem with ODE Models (25 min)</p> <p>4. Todd McKinley (Indiana University): Immunotypes Correspond to Outcomes in Multiply Injured Patients (25 min)</p> <p>5. Damon E. Ghetmiri (University of Florida): Dynamical System Modeling of Plasma Sample Thromboelastography To Personalize Trauma Patient Treatment (25 min)</p> <p>Open Discussion (20 min)</p>
10:55–11:15	<i>Coffee break</i>
11: 15–13:00	<i>SCAI Business Meeting and Open discussion about Future of SCAI All ICCAI attendees are welcome!</i>
13:00–14:00	<i>Lunch</i>

Friday pm	September 27, 2019
14:00–15:15	<p><i>Title: Practical aspects of collaborative big-data research II</i></p> <p><u>Moderator(s)</u>: Zenker/Clermont Sven Zenker: Introduction (5 min)</p> <p><u>Speakers</u>:</p> <p>1. Ryan Kindle (MIT): Outlook on multicenter collaboration–MIT/Harvard experience (25 min)</p> <p>2. Matthias Marzinko (Drägerwerk AG, Lübeck, Germany): Regulatory aspects of clinical decision support, a European perspective (25 min)</p> <p>Open discussion (25 min)</p>
15:15–15:45	<i>Coffee break</i>
15:45–16:00	<i>Concluding remarks</i>