



# ICCAI'22 PROGRAM



## “Impactful AI in Critical Care”

SCAI @ 20 > COVID-19

All times are Eastern Daylight Time Zone (EDT)

Day 1	Wednesday, September 7, 2022
8:00-8:10	<b>Introduction and Welcome</b> (Gilles Clermont, SCAI President)
8:10-8:25	<b>Brief Perspective Keynote (P0)- Celebrating 20 years of SCAI</b> (E. Neugebauer -Founding President of SCAI)
8:30-9:45	<p><b>Thematic session I: Developing and Trialing AI in Critical Care</b> Session Chair(s): I. Wong (Duke University)</p> <p>P1. <b>A road traveled: In silico clinical trials</b> (Leo A. Celi, MIT)            P2. <b>Testing Predictive AI</b> (Gary Weissman, University of Pennsylvania)            P3. <b>Governing Predictive AI Implementation (at scale)</b>            (Nicoleta Economou-Zavlanos, Duke University)</p> <p><b>Panel Discussion</b></p>
9:45-10:00	<b>Break</b>
10:00-11:15	<p><b>Thematic session II: Impactful AI in Critical Care</b> Session Chair(s): Vitaly Herasevich (Mayo Clinic)</p> <p>P1. <b>Complex thinking for common ICU problem – utilization of AI for analysis of the electrolyte replacement decision-making process</b>            (Krzysztof “Kris” Laudanski, University of Pennsylvania)            P2. <b>Is computer vision a solution for AI-enabled automatization at bedside?</b>            (Vitaly Herasevich, Mayo Clinic)            P3. <b>AI changes sepsis outcomes</b> (Roy Adams, John Hopkins University)</p> <p><b>Panel Discussion</b></p>
11:15-11:30	<b>Break</b>
11:30-12:30	<p><b>Thematic Session III: Manuscript Production (SCAI @ 20-22)</b> Session Chair(s): Beth Luszczek (University of Minnesota) /G. Clermont (University of Pittsburgh)</p> <p><b>Pre-structure discussion to the extent possible</b> (S. Zenker/G. Clermont)  <b>Data-driven vs. Mechanistic Modeling in Acute Illness</b> (Y. Vodovotz, University of Pittsburgh)  <b>Federated vs Centralized Learning</b> (C. Hinske, University of Augsburg)  <b>Patient privacy vs. Public Interest</b> (S. Zenker, University of Bonn)</p> <p><b>Panel Discussion</b></p>
12:30-13:00	<b>SCAI Business Meeting</b>



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Day 2	Thursday, September 8, 2022
<p><b>8:00-8:20</b></p> <p><b>8:20-9:45</b></p> <p><b>9:45-10:00</b></p>	<p><b>Keynote:</b> Eric Elster (Dean, Uniformed Services University of the Health Sciences, Bethesda, MD)  <b>“AI for Biomarker Discovery in Combat Trauma”</b></p> <p><b>Thematic Session IV: From Development to Implementation: Learning across Environments</b>            Session Chair(s): C. Hinske (University of Augsburg) and S. Zenker (University of Bonn), Germany</p> <p>P1. <b>Deidentification and Reidentification of Risk Quantification</b>            (Fabian Prasser, Berlin Institute of Health @ Charité)</p> <p>P2. <b>Homomorphic Encryption Techniques</b> (Andreas Trügler, KNOW Center Graz, Austria)</p> <p>P3. <b>Federated learning for healthcare</b> (Zaineb Chelly, University of Versailles, France)</p> <p><b>Panel discussion</b></p> <p><b>Break</b></p>
<p><b>10:00-11:15</b></p> <p><b>11:15-11:30</b></p>	<p><b>Thematic session V: Implementing the AI workforce in Critical Care</b>            Session Chair(s): Parisa Rashidi (University of Florida)</p> <p>P1. <b>The nephrologist and AI in Critical Care</b> (Shina Menon, Seattle Children’s Hospital)</p> <p>P2. <b>The Digital Twin in Intensive Care</b> (Robert Stevens, Johns Hopkins University)</p> <p>P3. <b>AI for Healthcare is not Ready for Deployment</b> (Leo A. Celi, MIT)</p> <p><b>Panel discussion</b></p> <p><b>Break</b></p>
<p><b>11:30-13:00</b></p>	<p><b>Thematic session VI: Clinical Validation of AI</b>            Session Chair(s): Sean Manion (CSO, Equidium Health)</p> <p>P1. <b>TBD</b> (Harsh W. Sharma, Chief Data &amp; AI for Cloud Services at Microsoft)</p> <p>P2. <b>TBD</b> (Tamiko Eto, Compliance, Technology Risk, Privacy, and IRB Manager, Kaiser Permanente, and CITI Program Training on AI &amp; Clinical Research)</p> <p>P3. <b>TBD</b> (Amicia Elliott, Colossal Biosciences)</p> <p><b>Panel discussion</b></p>
Day 3	Friday, September 9, 2022
<p><b>8:00-10:00</b></p>	<p><b>Future of SCAI:</b> Presentations from submitted abstracts</p>