

Time	December 5th
8:00am-9:00am	Welcome and Opening
9:00am-10:00am	Keynote: Supermind Design - MIT Center for Collective Intelligence Speaker: Kathleen Kennedy, Executive Director, MIT Center for Collective Intelligence
10:00am-10:15am	Break
10:15am-11:15am	Keynote: Advance Model Predictive System Control Using AI and Digital Twins Speakers: Jeff White, CTO - Edge, Chief Technology & Information Office, Dell - Said Tabet, Chief Architect, Emerging Technologies & Ecosystems, Dell Description: Deploying distributed systems at scale in the real world face multiple challenges including system state uncertainty, limited resource availability, multi-objective optimized outcomes, cybersecurity and safety. Heuristic and cloud based control methods have proven limited effectiveness in addressing these challenges. Use of Digital Twins and AI techniques including generative, discriminative and reinforcement along with advanced stochastic system modeling can provide a new framework of model predictive control. This discussion will cover the concepts of model based system control and use of advance techniques to manage modern large scale distributed systems.
11:15am-12:00pm	DTC-IIC Update and Collaboration Opportunities Speakers: Dan Isaacs, CTO, DTC - Chuck Byers, CTO, IIC <ul style="list-style-type: none"> • Motivations for Collaboration and Merger • Steering Committee Feedback • Current IIC & DTC Organization Structure • Choices for Groups • Charters, Deliverables, Schedules, etc. • Current Collaborations in Progress • Steps Toward a Merged Consortium • Vision for 2024
12:00pm-1:00pm	Lunch
1:00pm-1:45pm	Keynote: Model Based Test Engineering for Modeling and Simulation Approaches Speaker: Greg Brown, Chief Offering Manager (Strategic Business Development) - Aerospace, Defense & Government, National Instruments

1:45pm-2:15pm	<p>Collaboration Opportunities – Regional Branch Organizers</p> <p>Updates from:</p> <ul style="list-style-type: none"> • Australia/New Zealand • Korea • India 	
2:15pm-2:30pm	Break	
2:30pm-3:00pm	<p>Abstract to Insight: Delivering Contextually Valid Innovation</p> <p>Description: In this talk, fielded use cases will utilize three different meaningful digital transformations. Through design sessions uncovering limitations and opportunities, to iteratively developing and testing with partners, E2i Creative takes wicked problems from ideation to contextual validation in real-world operating environments.</p> <p>Speaker: Eileen Smith, Program Director, Institute for Simulation & Training, University of Central Florida</p>	
3:00pm-3:45pm	<p>Workshop on Digital Twin Skillsets: How to Address Current Challenges and Future Industry Requirements</p> <p>Speakers: Soheil Sabri, Assistant Professor in the School of Modelling, Simulation and Training, University of Central Florida - Dr. Michael Grieves, Executive Director, Digital Twin Institute</p>	
3:45pm-4:45pm	<p>Joint IIC and DTC Energy / Power Systems</p> <p>Speakers: IIC Energy: Daniel Young, Toshiba and DTC Power Systems: John Reynolds, Agile Fractal Grid and Mike Marshall, DRG Solutions</p> <p>Description: This is a joint session between counterpart groups in IIC and DTC to get to know each other, discuss charters, deliverables, workplans, etc. in anticipation of a merger.</p>	<p>Joint IIC and DTC Communications / Telecommunications</p> <p>Speakers: IIC Communications: David Lou, Huawei and Rajive Joshi, RTI and DTC Telecommunications: John Reynolds, Agile Fractal Grid, Roger Skidmore, EDX Technologies, Inc., and Nicolas Waern, EDX Technologies, Inc.</p> <p>Description: This is a joint session between counterpart groups in IIC and DTC to get to know each other, discuss charters, deliverables, workplans, etc. in anticipation of a merger.</p>
4:45pm-5:45pm	<p>Joint IIC and DTC Mining</p> <p>Speakers: IIC Mining: Ulrich Graf, Huawei and Jean-Jacques Verhaeghe, Mandela Mining Precinct and DTC Mining: Marcelo Bravo, rsa-tailings</p>	

Time	December 6th
7:30am-8:15am	<p>Joint IIC and DTC Healthcare</p> <p>Speakers: IIC Healthcare: Abhijeet Kelkar, GEOOWN and Takao Futagami, Shinshu University and DTC Healthcare and Life Sciences: Jim St. Clair, Interoperability Institute and Sean Whiteley, Axomem Pte Ltd.</p> <p>This is a joint session between counterpart groups in IIC and DTC to get to know each other, discuss charters, deliverables, workplans, etc. in anticipation of a merger.</p>
8:30am-9:00am	<p>Welcome, Day 1 Summary and Day 2 Events</p>
9:00am-10:00am	<p>Keynote: Convergence of Industry 4.0 towards Pharma Manufacturing 4.0</p> <p>Speaker: Doug Kiehl, Senior Director: Disruptive/Transformative Technologies Team (DT3) and Digital Twin COE, Eli Lilly – Madhu Gaganam, Engineering Technologist - Edge Portfolio and Solutions Smart Manufacturing, Dell</p> <p>Description: Digital transformation as a theme is driving and defining the disruptive and transformative roadmap for more expedient operations, product development, advanced manufacturing, supply chain and lifecycle management across multiple disciplines and industries. For the pharmaceutical industry, establishment of a digital transformation framework is increasingly aligned with principles consistent with the extrapolation of Industry 4.0 to pharmaceutical manufacturing and operations, with the objective of optimizing production and augmenting current workforce with automation and digital manufacturing operations. This presentation will discuss the FDA/FAME initiative, digital twins and cross-collaborative partnerships as primary enablers for advanced manufacturing and digital transformation in pharma.</p>
10:00am-10:15am	<p>Break</p>
10:15am-11:15am	<p>Cross-Consortia AI Joint Working Group Update</p> <p>Speakers: Dr. Michael Grieves, Executive Director, Digital Twin Institute, Chuck Byers, IIC, Moderator / Cohost – Dan Isaacs, DTC, Moderator / Cohost - Wael William Diab, Futurewei, IIC Industrial AI Task Group - (Vasu) Cheranellore Vasudevan, IBM, Responsible Computing Consortium - Claude Baudoin, OMG, OMG AI Platform Task Force - Sridhar Iyengar, IBM, OMG Board Perspective / Open source</p>
11:15am-12:00pm	<p>Collaboration Opportunities – RBOs</p> <p>Updates from:</p> <ul style="list-style-type: none"> • North East USA • Japan • Singapore
12:00pm-1:30pm	<p>Lunch</p>

1:30pm-2:00pm	<p>Decimetrix Green Dragon: Revolutionizing Methane Emissions and Carbon Footprint Management</p> <p>Speaker: Alejandro Zotti, CEO and Founder, Decimetrix</p> <p>Description: The presentation will highlight the capabilities, architecture, and the transformative impact it has on emissions monitoring and carbon footprint reduction. Three compelling success cases will showcase the real-world applications of Decimetrix Green Dragon.</p>	
2:00pm-2:30pm	<p>The Strategic Interest and Role of Digital Twins in the Transition from Hardware to Software Defined Vehicles</p> <p>Speaker: Phil Marshall, Chief Research Officer, Tolaga Research</p>	
2:30pm-3:00pm	<p>2x Faster Vehicle Software Development Proven by Digital Twin Operating Model</p> <p>Speaker: Pavel Azaletskiy, CEO, VSOptima</p>	
3:00pm-3:15pm	<p>Break</p>	
3:15pm-4:15pm	<p>Joint IIC and DTC Security & Trust</p> <p>Speakers: IIC Security and Trust: Keao Caindec, Farallon Technologies and Bob Martin, MITRE and DTC Security and Trustworthiness: Detlev Richter, TUEV SUEB Product Service GmbH and David Shaw, Intuitus Corp.</p> <p>Description: This is a joint session between counterpart groups in IIC and DTC to get to know each other, discuss charters, deliverables, workplans, etc. in anticipation of a merger.</p>	<p>Joint IIC and DTC Manufacturing</p> <p>Speakers: IIC Smart Factory: Tom Doney, AdvME LLC and DTC Manufacturing: Madhu Gaganam, Dell Technologies, Nicolas Waern, EDX Technologies, Inc and Todd Edmunds, Dell Technologies</p> <p>Description: This is a joint session between counterpart groups in IIC and DTC to get to know each other, discuss charters, deliverables, workplans, etc. in anticipation of a merger.</p>
4:15pm-5:15pm	<p>Strategy and Must Win Brainstorming</p>	

Time	December 7th
8:30am-9:00am	<p>Welcome, Day 2 Summary and Day 3 Events</p>
9:00am-10:00am	<p>Keynote: Digital Twin DNA for a Semiconductor Fab</p> <p>Speaker: Urmi Sen, Digital Transformation Executive, Siemens Digital Industries Software</p>

10:00am-10:15am	Break
10:15am-10:45am	<p>Keynote: TXST CIEDAR: Living Labs Deliver the Future Today</p> <p>Speaker: Andres Carvallo, Co-Director, Connected Infrastructure for Education, Demonstration and Applied Research (CIEDAR) Consortium</p> <p>Description: In his keynote Professor Carvallo will reveal how these new 14 living labs in 800 acres deliver a new digital world with virtually unlimited possibilities. “The CIEDAR LIVING LABS” are a non-stop, on-demand, re-design journey of the business models, business processes, technologies, organizational structures, and applied human capital to seamlessly blend existing and new stand-alone trends such as, Mass Customization, Open Sourcing, Crowdsourcing, eCommerce, Virtualization, Cloud Computing, Mobility, mCommerce, Social Media, Vehicle Electrification, Distributed Generation, Energy Storage, Drones, and Internet of Things into a more reliable, more profitable, and more customer driven utility reality. Professor Carvallo will share how The TXST CIEDAR Living Labs deliver success by committing to pervasive performance applied research management, which helps acceleration use and adoptions of digital innovation for utilities, energy, water, wastewater, cities, transportation, networks, sensors, big Data, and Software.</p>
10:45am-11:15am	<p>TAA Presents OPTICS: Port of Corpus Christi Active Digital Twin</p> <p>Speaker: Starr Long, Executive Producer, The Acceleration Agency</p> <p>Description: Starr Long of The Acceleration Agency will present OPTICS, the Active Digital Twin that provides users real-time visibility of marine vessel traffic and Computer Aided Dispatch (CAD) information about security events and vehicles for the Port of Corpus Christi.</p>
11:15am-12:00pm	<p>Cyber Resilience and Platform Resiliency</p> <p>Speaker: Eric Sivertson, CEO, Quantum Trace</p>
12:00pm-1:00pm	Lunch
1:00pm-2:15pm	Cross-Functional Use Case Workshop
2:15pm-2:30pm	Break
2:30pm-3:15pm	<p>Joint Summary and Wrap Up</p> <p>Description: A wrap-up of the Q4 Member Meeting, and discussion of future work. We will also begin planning for the Q12024 meeting in Reston, VA in March.</p>