



Summit registration  
(by April 25, 2024)



Abstract submission  
(by April 19, 2024)



## Purdue Systems Collaboratory Summit 2024.

Date: **April 29, 2024**

Location: **Stewart Center, STEW 214 & 218. Purdue University (West Lafayette, IN).**  
**Grant Street Parking Garage**

Registration deadline: **April 25, 2024. [Link to register](#)**

Abstract deadline: **April 19, 2024. [Link to submit abstract](#)** (includes abstract formatting guidelines)

**Abstracts will be considered for the Poster Session and for a Lightning Talk.**

Time	Event	Presenter(s)	Location
8.00am – 8.30am	<b>Registration / Breakfast</b>		<b>STEW 218</b>
8.30am – 8.45am	<b>Welcome / Introduction to Purdue Systems Collaboratory Summit</b>	<b>Dr. Joaquín Goñi</b> Program Chair of Summit, Associate Professor of School of IE/BME and PSC member  <b>Dr. Young-Jun Son</b> Interim Director Purdue Systems Collaboratory, James J. Solberg Head and Ransburg Professor, School of Industrial Engineering	<b>STEW 214</b>
<b>Session on Complex Systems.</b> <b>Session Chair: Dr. Jason Reinhardt</b> National Security Analyst for Sandia National Laboratories			
8.45am – 9.15am	<b>Panel session: It's a Complex World</b>	<b>Dr. Tugba Karabiyik</b> Purdue Systems Collaboratory  <b>Dr. Chad Laux</b> Purdue Polytechnic Institute	<b>STEW 214</b>
9.15am – 9.45am	<b>Your Career is a Complex System</b>	<b>Steve Records</b> Executive Director <a href="#">INCOSE</a>	<b>STEW 214</b>
9.45am – 10.10am	<b>Wearable Devices and Health Outcomes</b>	<b>Dr. Jaroslaw Harezlak</b> Dept. of Epidemiology and Biostatistics Indiana University	<b>STEW 214</b>
10.10am – 10.20am	<b>Coffee break</b>		<b>STEW 218</b>
10.20am - 10.30am	<b>Panel Session on the role of Purdue Systems Collaboratory tackling Global Challenges</b> <b>Introduction by Dr. Arvind Raman</b> John A. Edwardson Dean of the College of Engineering, Robert V. Adams Professor in Mechanical Engineering, Professor of Materials Engineering		<b>STEW 214</b>
10.30am – 11.10am	<b>Dr. Stacey Connaughton</b> Director of the Purdue Policy Research Institute  <b>Dr. William Crossley</b> Uhrig & Vournas Head of Aeronautics and Astronautics		<b>STEW 214</b>

	<b>Dr. Priyanka Brunese</b> Director of Research Development. John Martinson Honors College.		
<b>11.10am – 11.20am</b>	<b>Coffee break</b>		<b>STEW 218</b>
<b>11.20am – 11.30am</b>	<i>Lightning Talk: Next-generation drug manufacturing and distribution systems</i>	<b>Giulia Murbach de Oliveira</b> Dept. of Chemistry Purdue Systems Collaboratory Systems Fellow	<b>STEW 214</b>
<b>11.30am – 11.40am</b>	<i>Lightning Talk.</i>	Selected from Abstract submission	<b>STEW 214</b>
<b>11.40am – 11.50am</b>	<i>Lightning Talk.</i>	Selected from Abstract submission	<b>STEW 214</b>
<b>11.50am – 12.00pm</b>	<b>Announcement of 2024 System Fellows Awardees</b>	<b>Catherine Burkhart</b> Senior Program Manager Purdue Systems Collaboratory	<b>STEW 214</b>
<b>12.00pm – 1.00pm</b>	<b>Lunch</b>		<b>STEW 218</b>
<b>1.00pm – 2.00pm</b>	<b>Poster Session</b>	Poster Boards available all day for posters	<b>STEW 218</b>
<b>Session on AI and Networks</b> <b>Session Chairs:</b> <b>Dr. Sébastien Hélie</b> , Director of the Center for Brain, Behavior, and NeuroRehabilitation <b>Dr. Joaquín Goñi</b> , Head of the CONNplexity Lab. Purdue IE/BME			
<b>2.00 pm – 2.30 pm</b>	<b>“AI @ limits of learning”</b> <i>Exploring the evolution of AI algorithms and future challenges</i>	<b>Dr. Eugenio Culurciello</b> Director of the Purdue <a href="#">Institute of Physical AI</a>	<b>STEW 214</b>
<b>2.30pm – 3.00pm</b>	<i>Learning on Higher Order Networks</i>	<b>Dr. Nitesh Chawla</b> Director of the <a href="#">Lucy Family Institute for Data &amp; Society</a> University of Notre Dame	<b>STEW 214</b>
<b>3.00pm – 3.30pm</b>	<i>Redundancy in the Structure and Dynamics of Complex Networks</i>	<b>Dr. Luis Rocha</b> Systems Science and Industrial Engineering Dept. State University of New York at Binghamton	<b>STEW 214</b>
<b>3.30 pm – 4.30pm</b>	<b>Round Tables Session</b> <b>(One table per topic)</b> <b>(Coffee available)</b>	Each Topic has assigned Leader(s) ready for engaging discussions. See topics below.	<b>STEW 218</b>
<b>4.30pm – 5.00pm</b>	<b>Closing Remarks</b>	Summary from each Topic Leader and Q&A	<b>STEW 214</b>
<b>5.00pm – 5.30pm</b>	<b>Early Dinner / Snacks</b>		<b>STEW 218</b>

## Topics for Round Tables Session

Table 1. **Systems Thinking in Interdisciplinary Education** (Dr. Tugba Karabiyik, Dr. Luis Rocha)

Table 2. **Applications of Systems Thinking and Systems Dynamics** (Dr. Patrick Brunese)

Table 3. **Soft- / Human- / Socio-Technical Systems** (Dr. Priyanka Brunese, Dr. Yuehwern Yih)

Table 4. **Purdue Institute of physical AI and learning in the real world.** (Dr. Eugenio Culurciello)

Table 5. **Conflict Risk and Cyber Risk.** (Dr. Jason Reinhardt)

Table 6. **Machine Learning/Artificial Intelligence and Statistics.** (Dr. Jaroslaw Harezlak)