



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

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

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)