Southern Maine AI and Digital Science Conference

102 - Wishcamper Center, 34 Bedford Street, Portland Maine 04101

Friday December 6th.

8:30 – 9:00	**Registration**
9:00 - 9:20	Welcome by USM President Jackie Edmondson, and Provost Adam Tuchinsky
9:20 - 9:40	UMS Chief Information Officer Robert Placido *University of Maine Systems commitment to academic integrity in the era of AI.*
9:40 - 10:00	Behrooz Mansouri, assistant professor in computer science *Dubyak Center for Digital Science and Innovation*
10:00 - 10:30	**Morning Coffee break**
10:30 - 10:50	Asheesh Lanba, assistant professor in mechanical engineering, USM *Applied Supervised Machine Learning for Image Segmentation*
10:50 - 11:20	Mariusz Jankowski, professor of electrical and computer engineering, USM *Signals, Systems and Signal Processing – A Computational Approach.*
11: 20 - 11:40	Julia Upton, associate professor, college of science and humanities, Husson University. *Taming the Giants: How AI Red Teaming Keeps Large Language Models Aligned and Secure*
11:40 – 12:00	University of Southern Maine AI task-force Panel Discussion – led by Zachary Newell, Dean of Libraries and Learning. *Industry expectations of the higher education institutions.*
12:00 – 1:00	**Lunch**
1:00 - 1:20	Amir Kordijazi, assistant professor in industrial engineering, USM *AI for Materials and Manufacturing Research*
1:20 - 1:40	Dan Jenkins, professor of leadership and organizational studies, USM *Ethical AI and Leadership Development: Preparing Future Leaders for a Digital World*

1:50 - 2:10	Janna Ahrndt, assistant professor of art *Expanding Public Understanding of Artificial Intelligence and Data Ownership Through Discussions of Grief*
2:10 - 2:30	Trevor Hehn – Hehn Law *AI in Class and at Work: A Brief Overview of AI Law in Education and the Workforce*
2:30 – 2:40	*Business spotlight InquisIT -Ben Keethler*
2:40 – 3:00	*Discussion Forum led by Carrie Kancilia, faculty director of writing services and Nick Caruso from the writing services.*
3:00 – 4:30	**Poster Presentations with Coffee and Refreshments at the Dubyak Center** 1. Spatio-temporal vegetation patterns across UNESCO World Heritage site Kujataa, Greenland using NASA MODIS - 2000-2023 - Dianna Farrell, Firooza Pavri and Izaak Onos 2. Data and Model Frameworks for Tree Species Classification – Wyatt McCurdy. 3. Evaluating Fine Grained and High-Level Representations for Legal Case Retrieval – Sean Fletcher and Behrooz Mansoori. 4. Evaluating F-Mask Performance as a Benchmark for Cloud Detection in Satellite Imagery – Timothy Burke and Abbas Jabor. 5. Binary Malware classification through explainable AI and finetuned large language models for static malware analysis – Nicholas Largey. 6. What do Mainers search about? An analysis of google trends – Abigail Pitcairn, and Behrooz Mansouri. 7. Manga information Retrieval – Finn Michaud, SJ Franklin, Cameron Letendre. 8. Theoretical Foundations of Extreme Value theory: Methods, uncertainty quantification and computational tools in python and R – Prashiddhi Pokhrel. 9. MathMex Theorems: Integrating Plain language and formula-based search – SJ Franklin. 10. Predicting employee turnover intentions using decision tree and random forest models – Sarah Kayembe

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