

Program

iSAI-NLP 2024 Zoom Test Session

All dates and times are in Bangkok, Thailand
Thursday, November 21, 2024
15:01:35 ICT

To ensure a smooth experience during iSAI-NLP 2024, we'll be hosting a test session for all attendees to check their audio, video, and connectivity settings. This is a chance to make sure everyone is ready and troubleshoot any issues in advance. If the Zoom application hasn't been installed on your PC or Mac, please go to <https://zoom.us/download> the prompts to complete the installation. You may need to enter your PC/Mac permission to allow installation.

✂ Test Session Details	
Date:	TUESDAY, NOVEMBER 12, 2024
Time:	@10:00-16:00 UTC+7 (Bangkok, Thailand time.)
Zoom Link:	Join Test Session Meeting ID: 793 9829 2507 Passcode: 6DL3pP

What to Expect:

- A chance to test your **microphone** and **camera**.
- Check that you can **share your screen** if needed.
- Verify stable **internet connection** and access to the event.

Please join the session to ensure everything runs smoothly for the main event. We appreciate your cooperation and look forward to an amazing iSAI-NLP 2024!

iSAI-NLP 2024 Conference Announcement

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We're excited to announce the ****iSAI-NLP 2024 Conference****! This year's event will feature insightful discussions, presentations, and networking opportunities in the field of artificial intelligence and cognitive science. Join us virtually to connect with experts and enthusiasts from around the world.

✂ Conference Details	
Date:	Wednesday, November 13 - Thursday, November 14, 2024
Time:	Starting at 08:30 - 18:00 UTC+7 (Bangkok, Thailand time)
Zoom Link:	Join MIWAI 2024 Conference Meeting ID: 878 3313 5517 Passcode: 296341

We look forward to seeing you there and sharing an inspiring iSAI-NLP 2024 experience together!

iSAI/NLP & MIWAI 2024 Overview Program						
Room	Time	Nov 11, 2024	Nov 12, 2024	Nov 13, 2024	Nov 14, 2024	
MIWAI 1 (FLAVIO)	8:30-9:50	On-site Registration		MIWAI M-S-1	ISAI/NLP 4	MIWAI M-9
	9:50-11:10			MIWAI M-S-2	ISAI/NLP 5	MIWAI M-10
	11:10-11:30			Break		
	11:30-12:30					
	12:30-13:30	Lunch				
	13:30-14:30	On-site Registration				
	14:30-15:50			MIWAI M-S-3	MIWAI M-S-11	
	15:50-16:10			Break		
	16:10-17:50			MIWAI M-S-4	MIWAI M-S-12	
MIWAI 2 (Virutal)	8:30-9:50	On-site Registration		MIWAI M-S-5	MIWAI M-S-13	
	9:50-11:10			MIWAI M-S-6	MIWAI M-S-14	
	11:10-11:30			Break		
	11:30-12:30					
	12:30-13:30	Lunch				
	13:30-14:30	On-site Registration				
	14:30-15:50			MIWAI M-S-7	MIWAI M-S-15	
	15:50-16:10			Break		
	16:10-17:50			MIWAI M-S-8	MIWAI M-S-16	
iSAI/NLP 1 (MAGENTA)	8:30-9:50	On-site Registration	IINAE 2024	Invited Talk 3	iSAI/NLP 6	
	9:50-11:10			ISAI/NLP 1	iSAI/NLP 7	
	11:10-11:30		IINAE 2024	Break		
	11:30-12:30			Invited Talk 1	Invited Talk 2	
	12:30-13:30	Lunch				
	13:30-14:30	On-site Registration	IINAE 2024	Panel Disc 1	Panel Disc 2	
	14:30-15:50			iSAI/NLP 2	iSAI/NLP 8	
	15:50-16:10		IINAE 2024	Break		
	16:10-17:50			iSAI/NLP 3	iSAI/NLP 9	
iSAI/NLP 2 (VERMILLION)	8:30-9:50	On-site Registration			CiRA CORE	
	9:50-11:10			iSAI/NLP 11	CiRA CORE	
	11:10-11:30			Break		
	11:30-12:30			iSAI/NLP 12	CiRA CORE	
	12:30-13:30	Lunch				

- NOTE:
1. iSAI/NLP 2024 and MIWAI 2024 participants may attend IINAE 2024 free of charge.

2. Invited Talk 1-2 and Panel Discussion 1-2 will take place in room iSAI/NLP 1 (MAGENTA), in which both iSAI/NLP and MIWAI participants will gather.

3. MIWAI on-line sessions are presented in LIGHT PINK background. Some on-line presenters (paper 41 & 86) will present virtually in session M-S-12.

4. Due to insufficient registration numbers in tutorial coueses, there will be only CiRA CORE tutorial.

List of accepted papers and session details

Invited Talk 1	Speaker	Asst. Prof. Supachai Vongbunyong, Ph.D.
	Title	Artificial Intelligence in Sustainable Manufacturing and Industry 5.0
	Abstract	<p>Nowadays the world has encountered many key challenges such as aging populations, resource efficiency, and mass customization. Addressing these key challenges, this presentation explores AI's potential to transform manufacturing through increased sustainability, efficiency, and adaptability, all within the framework of a human-centered Industry 5.0 paradigm. In regard to AI technologies, they are implemented in various domains in manufacturing. Generative design enables AI-driven product innovation, while advanced machine vision improves inspection and material handling processes. AI applications in intralogistics and energy management contribute to streamlined operations and cost reductions, enhancing overall efficiency. In addition, human-robot collaboration is highlighted as a means to improve worker satisfaction by assigning repetitive or hazardous tasks to machines. For Generative AI, it is recognized as a high-value tool in manufacturing, capable of automating complex processes like test case generation, document creation, and production monitoring. Benefits of AI in this sector include continuous production, enhanced quality control, real-time decision-making, and reduced operational costs, all of which align with sustainable manufacturing goals.</p>
Invited Talk 2	Speaker	Prof. Patrick Doherty, Ph.D.
	Title	Collaborative Robotics for Emergency Rescue: A Distributed Task, Information, and Interaction Perspective
	Abstract	<p>In the context of collaborative robotics, both distributed planning and task allocation, and acquisition of situation awareness are essential for supporting goal achievement, collective intelligence, and decision support in teams of robots and human agents. This is particularly important in applications pertaining to emergency rescue and crisis management. Given a high-level mission specification provided by a member of a rescue team, human or robotic, one then requires a mechanism for generating and executing complex, multi-agent distributed plans and tasks. The proper task representation is essential for both the generation and execution of complex multi-agent distributed tasks. Task Specification Trees have been proposed for this purpose and a Delegation Framework is used for distributed task allocation. Additionally, during operational missions, data and knowledge is gathered incrementally and in different ways by teams of heterogeneous robots and humans. We describe this as the formation and management of Hastily Formed Knowledge Networks (HFKN). The resulting distributed knowledge structures can then be queried by individual agents for decision support. These structures are represented as RDF graphs, and graph synchronization techniques are introduced to retain the consistency of the collective knowledge of a team. Flexible human interaction with teams of robots is also an essential component in emergency rescue. Integrating LLMs into the interaction process provides a new way to think about interaction.</p>
Invited Talk 3	Speaker	Assoc. Prof. Sarana Nutanong, Ph.D.
	Title	Mitigating Shortcut Learning and Bias in Machine Learning: Advances in Counterfactual Reasoning and Generalization
	Abstract	<p>Machine learning models often exploit shortcuts—unintended features in training data—leading to strong in-distribution performance but poor generalization to out-of-distribution scenarios. This keynote explores recent advancements in mitigating shortcut learning through counterfactual reasoning and debiasing across three key NLP tasks.</p> <p>The first study¹ addresses spurious correlations in natural language understanding (NLU). Using a causal analysis framework, we apply counterfactual inference to reduce reliance on unintended lexical patterns, significantly improving out-of-distribution robustness.</p> <p>The second study² introduces Authorship Representation Regularization (ARR) to tackle authorship attribution in cross-topic environments. ARR enhances generalization across unseen authors and topics by minimizing the influence of topic-specific features, as demonstrated in open-set evaluations.</p> <p>The third study³ focuses on entity disambiguation (ED) for overshadowed entities, where models often rely on mention surfaces as shortcuts. Counterfactual Training (CFT) enforces context-based learning, improving performance on rare entities without increasing inference costs.</p> <p>The talk will conclude by addressing the pressing need to combat shortcut learning in mid-to-low resource languages, where the lack of data makes models even more vulnerable to unintended feature reliance, underscoring the importance of robust, debiased techniques for improving performance in these settings.</p>
Panel Discussion 1	Topic	Toward Industry 4.0 with AI
Panel Discussion 2	Topic	Toward Advanced Defense with AI

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