

AGENDA

VinUni-Illinois Smart Health Center Workshop 2022

Updated as of 11 July 2022

Day 1: Monday, 11th July 2022

Venue: TBL C401, 4th Floor, C-Building, VinUniversity, Vinhomes Ocean Park, Gia Lam, Hanoi

Time: 9:00 AM – 12:30 PM

Time	Activity	Speakers
8:30 – 9:00	VinUni, UIUC, and VISHC Introduction	Rohit Verma Phillipe Geubelle Minh Do
9:00 – 9:30	Launch of VinUni PhD Program with International Distinguished Professors	Laurent El Ghaoui (VinUni) Wray Buntine (VinUni)
9:30 – 10:00	Microfluidics and Nanotechnology for Infectious Disease and Pathogen Detection	Rashid Bashir , UIUC [via Zoom]
10:00 – 10:30	Domain-guided Machine Learning Models for Diagnosis and Prediction Using Multi-Model Data	Ravishankar Iyer , UIUC
10:30 – 11:00	Tea Break	
11:00 – 11:30	Towards an Academic Healthcare System Addressing Healthcare Challenge in Vietnam	Xuan-Hung Nguyen , Vinmec/VinUni
11:30 – 12:00	The Silent Pandemic of Antimicrobial Resistance – The Need to Improve Detection and Surveillance	Andrew W. Taylor-Robinson , VinUni
12:00 – 12:30	Wastewater-Based Epidemiology for Pathogen and Microbial Genomic Surveillance	Thanh H. (Helen) Nguyen , UIUC
12:30 – 14:00	Lunch & discussion	

14:00 – 14:30	Role of Critical Interfaces in the Sustainability of Intensively Managed Agricultural Landscapes	Praveen Kumar , UIUC
14:30 – 15:00	Designer DNA Nanostructures for Viral Detection and Inhibition	Xing Wang , UIUC
15:00 – 15:30	Nano Biosensors Examples and Future of Diagnostics	Cuong Do , VinUni
15:30 – 16:00	Tea Break	
16:00 – 16:30	Fi-Mi: A Fine-grained AI-based Mobile Air Quality Monitoring and Forecasting System	Le Phi Nguyen , HUST
16:30 – 17:00	Polyp and Organ Segmentation with Context-Awareness, 2D Mask Propagation, and 3D Convolution	Triet Minh Tran , VNU-HCMC
17:00 – 17:30	Tour of VinUni	
18:00 – 21:00	Welcome BBQ Party at Ocean Park beach	Moving with Tuktuk

Day 2: Tuesday, 12th July 2022

Venue: TBL C401, 4th Floor, C-Building, VinUniversity, Vinhomes Ocean Park, Gia Lam, Hanoi

Time: 9:00 AM – 12:30 PM

Time	Activity	Speakers
8:30 – 9:00	Vignettes in Digital Health: Biomarkers, Public Health Surveillance, and Equity	Lav Varshney , UIUC [via Zoom]
9:00 – 9:30	Trustworthy Federated Learning	Bo Li , UIUC [via Zoom]
9:30 – 10:00	Building Health-Web Search-To-Knowledge Engine for Next-Generation Medical Information Access	Duy-Dung Le , VinUni Kevin Chang , UIUC [via Zoom]
10:00 – 10:30	Combat Health Misinformation with Natural Language Processing	Heng Ji , UIUC
10:30 – 11:00	Tea Break	
11:00 – 11:30	NLP Information Access: Retrieval, Classification, Summarisation & NER Recognition with NLP Language Models	Wray Buntine (VinUni)
11:30 – 12:00	Mother's & Baby's Health Matters: Air Pollution and Its Impact on Maternal	Pranee Liamputtong , VinUni

	and Newborn Health Risks in North Vietnam	
12:00 – 12:30	Behavior and Fairness Considerations in Developing Personalized Care Package	Qiong Wang , UIUC
12:30 – 14:00	Lunch & discussion	
14:00 – 14:30	How to Launch a Digital Health Product to the Market? Our Journey of Telehealth Platform AiviCare	Dao Huu Hung, Director of Business Development, VinBrain
15:00 – 15:30	Setup for Poster Presentations	Host by Hieu Pham
15:30 –17:00	Poster Session/Tea Break	Students' Demos and Showcases of their Research and Innovation Projects . Host by Hieu Pham