## **COMOSA 2025 – PROGRAM SCHEDULE**

Time	Location	Submission ID	Activity
Day 01			Friday, August 15 <sup>th</sup> , 2025
08:30 - 09:00			Welcome & Check-in
09:00 - 09:30			Opening ceremony  Welcome remarks — Prof. Laurent El Ghaoui, VinUniveristy  Opening speech — Dr. Le Minh Ha, VIASM  Conference Overview & Program Summary - Assoc. Prof. Nguyen Ngoc Doanh, VinUniversity
09:30 - 10:30			Session Chair: Assoc. Prof. Nguyen Ngoc Doanh  Keynote Speech 1  Modeling to support sustainability science: how open agent-based platforms can foster transdisciplinary approaches  Prof. Alexis Drogoul, Ummisco, IRD, France
10:30 – 10:50	C401		Tea Break
10:50 – 12:10	C401		Session 1 Session Chair: Dr. Mohd Hafiz Mohd, School of Mathematical Sciences, Universiti Sains Malaysia
10:50 – 11:10		25	A Simulation-based Optimization Approach for Patient Admission Scheduling Problem Under Uncertainty  Luu Nguyen Minh Thu, Ha Thi Xuan Chi, Phung Duc Bao, Nguyen Thi Phuong Anh, Huynh Nguyen Kim Ngan, Nguyen Hoang Thai  Cong, Cao Duong Bao Ngoc
11:10 - 11:30		99	Comparative Analysis of Temporal Deep Learning Models for Flood Level Forecasting: A Case Study in the Gianh River Basin  Nguyen Viet Hoang, Vu Huong Ngan, Nguyen Ngoc Doanh, Dinh Nhat Quang
11:30 – 11:50		31	A Hybrid Genetic Search for Energy-Aware Multi-Trip Drone Routing with Time-Windows  Tuan Anh Pham, Minh Hoàng Hà, Duc Minh Vu, Duc Dong Do
11:50 – 12:10		18	Enhancing Learning to Cuts Approach for Solving NP-hard Problems  Truong Ngoc Thao Vy, Nguyen Van Hop
12:10 – 13:30	Canteen (Building E)		Lunch
13:30 - 14:30	C401		Session Chair: Dr. Hà Minh Hoàng, National Economics University , Vietnam  Keynote Speech 2  The Integrated Healthcare Timetabling Competition (IHTC-2024): Formulation, Rules, Results, and Solution by Local Search  Prof. Andrea Schaerf, DPIA, University of Udine, Italy
14:30 – 14:50			Tea Break
14:50 – 16:50			Session 2 Session Chair: Dr. Huynh Thi Thanh Binh, Hanoi University of Science and Technology
14:50 – 15:10		37	Complete Coverage Path Planning Framework for Oil Tank Inspection Robots in Unstructured Environments  Nguyen Thi Lan, Trinh Duc Minh, Tran Tan Chuc, Le Văn Sỹ

15:10 – 15:30		42	An efficient branch-and-bound algorithm for solving a new variant of the university course timetabling problem  Quang Dung PHAM, Thuy Chau TRAN, Van Son NGUYEN, Quoc Trung BUI
15:30 – 15:50		27	Ultrasonic material characterization using physics-informed deep learning  Ductho Le , Hongphuc Nguyen, Le Ngo Duc Manh, Xuan Bao Tran, and Haidang Phan
15:50 – 16:10		38	Implementing Computer Vision for Pipeline Defect Detection Phan Nguyen Ky Phuc, Tran Kiet Tuong, Nguyen Thi My Hanh
16:10 – 16:30		40	Addressing data imbalance to enhance water level forecasting quality  Minh-Ngoc T. Nguyen, Kim-Ngan T. Nguyen, Dinh Nhat Quang, Doanh Nguyen-Ngoc
16:30 – 16:50		102	A Scenario-Based Optimization Model for Seasonal Procurement Under Demand Uncertainty Mai-Ha Phan, Uyen Ly Do Ngoc, The Vy Nguyen, Nhat Toan Nguyen, Nguyen Hung Doan, Minh Thi Phan
16:50 – 17:15	VinUni Campus		Campus Tour/ Net-working
17:15 – 17:45	Ocean Park		Proceed to the Gala Dinner venue
17:45 – 20:00	Lagoon		Gala Dinner
Day 02			Saturday, August 16 <sup>th</sup> , 2025
08:30 - 09:00			Welcome & Check-in
09:00 – 12:30			Session 3 Session Chair: Dr. Nguyen Thi Kim Ngan, National Economics University, Vietnam
09:00 - 09:20		43	Multi-Goal Path Planning for Multi-Robot Systems in Dynamic Environments Using Hybrid A* Algorithm and Dynamic Window Approach Nguyen Trung Thinh, Phan Anh, Tran Thi Cam Giang, Nguyen Ngoc Doanh
09:20 - 09:40		34	A Continuous-Time Framework for Adaptive Asset Allocation  Phuong-Nam Nguyen, Thang Tran Ngoc
09:40 – 10:00		52	Facial Expression Recognition with Identity-Normalized Landmark Features  Viet Hung Tran, Ngoc Son Tran, Thi Phuoc Van Nguyen, Hung Tran, Duc Minh Tran
10:00 – 10:20	C401	94	Deep Temporal-Spatial Learning for Early Prediction of Human Blastocyst Formation from Time-Lapse Videos  Minh-Duc Pham, Quang-Anh Nguyen-Duc, Van-Quang Nguyen, Minh-Anh Nguyen
10:20 - 10:35			Tea Break
10:40 - 11:00		100	Transparent AI for Disaster Management: Explainable Landslide Prediction Models to Support Decision-Making  Quang-Anh N. D, Ha Phuong Vu, Duong Le Tung Ba, Nga Phung Mai, Hoa Do Thanh
11:00 – 11:20		20	Ruin probabilities of risk models with dependent claim sizes  Nguyen Huy Hoang, Tran Dinh Phung
11:20 – 11:40		46	Vehicle-to-Grid Based Smart Charging Strategy for Electric Vehicles in Urban Microgrids: A Case Study in Ho Chi Minh City  Ho Nhat An, Pham Thi Lan Huong, Trinh Duc Minh, Nguyen Duy Ninh, Nguyen Thi Lan, Nguyen Thai Vinh, Bui Dang Thanh
11:40 – 12:00		48	Cost Optimization in Choice-based Competitive Facility Location: An Exact Approach  Luat Le, Thuy Anh Ta

12:00 – 13:30	Canteen (Building E)		Lunch
13:30 – 16:40			Session 4
			Session Chair: Dr. Vu Duc Minh, National Economics University, Vietnam
13:30 – 13:50		62	A Dynamic Disruption Recovery Model for Multi-Layer Supply Networks
			Ngan Duong, Uyen Nguyen, Trang Pham, Luong Doan, Tuan Do
42.50 44.10		65	Electric Traveling Salesperson Problem with Wireless Charging Lanes: A Mathematical Programming Approach
13:50 – 14:10		65	Trung Duc Tran, Duc Minh Vu, Ngoc Doanh Nguyen, Gia Nguyen Pham, Laurent El Ghaoui, Ha Minh Hoang
14.10 14.20		49	Learning from the Crowd: LLMs as Expert Filters for Multi-Agent Decision Making
14:10 – 14:30		49	Thuy Anh Ta, The Viet Bui, Tien Mai
14:30 – 14:50		107	An Integrated Fuzzy MCDM-Stochastic Optimization Approach for Sustainable and Resilient Supplier Selection and Order
			Allocation Under Pandemic Disruptions
			Dang Kieu Giang, Ha Thi Xuan Chi, Pham Huynh Tram, Nguyen Le Minh Hoa, Nguyen Thi Phuong Anh
14:50 – 15:05	. C401		Tea Break
		17	An adaptive algorithm utilizing the Fama-French three-factor model for improving portfolios
15:10 – 15:30			Quoc Huy Vu, Phuong Hoai Ngoc Nguyen, Hung Tran, Duc Minh Tran
15.20 15.50		63	Examining the Nexus between Green Growth Indicators and Economic Growth: Panel Data Evidence and Policy Insights
15:30 – 15:50			Phan Nhan Trung, Huynh Minh Sang, Nguyen Thu Thuy, To Van Tuan
15:50 – 16:10		74	Impact of Different Contents generated by Human and AI on Social Media Engagement
15.50 - 16.10			Tran Thi My Hanh
16:10 – 16:20		85	High-Order Optimization for Equity-Crypto Portfolios
(10p)		(abstract)	Nam Tran, Trieu Dong Nguyen
16:20 – 16:30 (10p)		89	Multi-Material Topology Optimization of Incompressible Structures Under Harmonic Excitations Using Polygonal Finite
		(abstract)	Elements
		, ,	NHieu Ban Phuc, Tran Le Thi Huyen, Lee Dongkyu, Choi Kyuin, Park Kyutae
16:30 – 16:40		90	Complex Dynamics in COVID-19 Endemicity: An Epidemiological Modelling Perspective
(10p)		(abstract)	Amer M. Salman, Mohd Hafiz Mohd
16:40 – 17:00			Closing Speech & Group Photos
			Assoc. Assoc. Prof. Nguyen Ngoc Doanh, VinUniversity