COMOSA 2025 - PROGRAM SCHEDULE

Time	Location	Submission ID	Activity
Day 01			Friday, August 15 th , 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 - 10:15			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
10:15 - 10:30			Tea Break
10:30 - 12:10			Session 1 Session Chair: Dr. Mohd Hafiz Mohd, School of Mathematical Sciences, Universiti Sains Malaysia
10:30 - 10:50		5	Optimizing Production and Inventory Dynamics An Advanced EPQ Model for Modern Supply Chains Sani Rabiu, Majid Khan Majahar Ali
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		7	Time-Resolved Exergy Optimization of Hybrid Solar Dryers Using Finite Element Modeling and Multi-Dimensional Trade-Off Analysis Ibrahim Adamu Mohammed, Majid Khan Majahar Ali
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	Hospitality Lab/ Canteen		Lunch
13:30 - 14:15	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
14:15 - 14:30			Tea Break

			Session 2
14:30 - 16:50			Session Chair: Dr. Huynh Thi Thanh Binh, Hanoi University of Science and Technology
44.00 44.50		21	A Hybrid Genetic Search for Energy-Aware Multi-Trip Drone Routing with Time-Windows
14:30 - 14:50		31	Tuan Anh Pham, Minh Hoàng Hà, Duc Minh Vu, Duc Dong Do
14:50 - 15:10		37	Complete Coverage Path Planning Framework for Oil Tank Inspection Robots in Unstructured Environments
14:50 - 15:10			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
15:10 15:00			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 Addressing data imbalance to enhance water level forecasting quality
16:10 - 16:30		40	Minh-Ngoc T. Nguyen, Kim-Ngan T. Nguyen, Dinh Nhat Quang, Doanh Nguyen-Ngoc
			A Scenario-Based Optimization Model for Seasonal Procurement Under Demand Uncertainty
16:30 - 16:50		102	Mai-Ha Phan, Uyen Ly Do Ngoc, The Vy Nguyen, Nhat Toan Nguyen, Nguyen Hung Doan, Minh Thi Phan
.,	VinUni		
16:50 - 17:15	Campus		Campus Tour/ Net-working
17:15 - 17:45	Ocean		Proceed to the Gala Dinner venue
17.13 17.13	Park		Trocced to the data billine rende
17:45 - 20:00	Lagoon		Gala Dinner
Day 02			Saturday, August 16 th , 2025
08:30 - 09:00			Welcome & Check-in
00.00 10.00			Session 3
09:00 - 12:30			Session Chair: Dr. Nguyen Thi Kim Ngan, National Economics University, Vietnam
	C401	43	Multi-Goal Path Planning for Multi-Robot Systems in Dynamic Environments Using Hybrid A* Algorithm and Dynamic
09:00 - 09:20			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
		94	Deep Temporal-Spatial Learning for Early Prediction of Human Blastocyst Formation from Time-Lapse Videos
10:00 - 10:20			Minh-Duc Pham, Quang-Anh Nguyen-Duc, Van-Quang Nguyen, Minh-Anh Nguyen
10.00 10.05			
10:20 - 10:35			Tea Break
		100	Transparent AI for Disaster Management: Explainable Landslide Prediction Models to Support Decision-Making
10:40 - 11:00		100	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
11.00 11.10	1	46	Vehicle-to-Grid Based Smart Charging Strategy for Electric Vehicles in Urban Microgrids: A Case Study in Ho Chi Minh City
11:20 - 11:40			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
11.40 12.00			Luat Le, Thuy Anh Ta
12:00 - 13:30	Hospitality		
	Lab/		Lunch
	Canteen		Session 4
13:30 - 16:40			Session Chair: Dr. Vu Duc Minh, National Economics University, Vietnam
		62	A Dynamic Disruption Recovery Model for Multi-Layer Supply Networks
13:30 - 13:50			Ngan Duong, Uyen Nguyen, Trang Pham, Luong Doan, Tuan Do
	1		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
14:10 - 14:30		49	Learning from the Crowd: LLMs as Expert Filters for Multi-Agent Decision Making
			Thuy Anh Ta, The Viet Bui, Tien Mai An Integrated Fuzzy MCDM–Stochastic Optimization Approach for Sustainable and Resilient Supplier Selection and Order
14:30 - 14:50		107	An Integrated Fuzzy MCDM-Stochastic Optimization Approach for Sustainable and Resilient Supplier Selection and Order Allocation Under Pandemic Disruptions
14.50 14.50		107	Dang Kieu Giang, Ha Thi Xuan Chi, Pham Huynh Tram, Nguyen Le Minh Hoa, Nguyen Thi Phuong Anh
11.50 15.05	1		
14:50 - 15:05	_		Tea Break
15:10 - 15:30	. C401 .	17	An adaptive algorithm utilizing the Fama-French three-factor model for improving portfolios
13.10 13.00			Quoc Huy Vu, Phuong Hoai Ngoc Nguyen, Hung Tran, Duc Minh Tran
15:30 - 15:50 15:50 - 16:10		63	Examining the Nexus between Green Growth Indicators and Economic Growth: Panel Data Evidence and Policy Insights
			Phan Nhan Trung, Huynh Minh Sang, Nguyen Thu Thuy, To Van Tuan
		74	Impact of Different Contents generated by Human and AI on Social Media Engagement Tran Thi My Hanh
16:10 - 16:20		85	High-Order Optimization for Equity-Crypto Portfolios
(10p)		(abstract)	Nam Tran, Trieu Dong Nguyen
		,	Multi-Material Topology Optimization of Incompressible Structures Under Harmonic Excitations Using Polygonal Finite
16:20 - 16:30		89	Elements
(10p)		(abstract)	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
25.10 17.50			Assoc. Assoc. Prof. Nguyen Ngoc Doanh, VinUniversity