



hanamthang hanamthang <hanamthang@hueuni.edu.vn>

Announcement of online scientific seminars at COSARI (VLU), 0 9 AM - 11 AM, Friday, 17th May 2024

1 message

Nguyễn Thời Trung - Viện Khoa học Tính toán & Trí tuệ Nhân tạo

Mon, May 13, 2024 at 11:21 AM

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Dear researchers, colleagues, and graduate students,

The scientific seminar of the [Institute for Computational Science & Artificial Intelligence \(COSARI\)](#) of Van Lang University (VLU), will be organized **online** from **9.00 AM to 11.00 AM on Friday, 17th May 2024**.

This seminar (66th seminar) will include the following topics:

9.00 AM - 10.00 AM: Dr. Nguyen Sy Tuan (Lab for Computational Mechanics, COSARI, VLU) presents the topic: "[GEOS an open source code for simulating subsurface CO2 sequestration](#)" (Abstract below)

10.00 AM - 11.00 AM: Dr. Ha Nam Thang (Faculty of Fisheries, University of Agriculture and Forestry, Hue University) presents the topic: "[Novel Learning of Bathymetry from Landsat 9 Imagery Using Machine Learning, Feature Extraction and Meta-Heuristic Optimization in a Shallow Turbid Lagoon](#)"

□

I cordially invite all of you to participate in the seminar.

Best regards,

Assoc. Prof. Nguyen Thoi Trung

Director of Institute for Computational Science & Artificial Intelligence (COSARI)

Chairman: Science & Technology Advisory Council - VLU

Chairman: Council of University Experts - VLU

Van Lang University (VLU), Ho Chi Minh City, Vietnam

Scientific Council of Mechanics, National Foundation for Science & Technology (NAFOSTED) (2022 - 2024)

[Bualuang ASEAN Chair Professor](#), Thammasat University, Thailand, 2022-2024

Editorial Board: "[Computers and Structures](#)" (Elsevier, Q1, H-index = 152)

2021 Highly Cited Researchers™ list - Clarivate

[Mechanical & Aerospace Engineering Leader Award, 2022-2023-2024](#) (by Research.com)

Google Scholar (H-index = 77); [ResearcherID: E-5467-2019](#) (H-index = 66)

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**VAN LANG
UNIVERSITY**

Topic 1: [GEOS an open source code for simulating subsurface CO2 sequestration](#)

Presenter: [Dr. Nguyen Sy Tuan](#) (Lab for Computational Mechanics, COSARI, VLU)

Abstract:

GEOS is a simulation framework developed by four main world leading organizations (Lawrence Livermore National Laboratory, Stanford University, TotalEnergies, Chevron) for modeling coupled flow, transport, and geomechanics in the subsurface. The code provides advanced solvers for a number of target applications, including: carbon sequestration, geothermal energy, and similar systems. A key focus of the project is achieving scalable performance on current and next-generation high performance computing systems. We do this through a portable programming model and research into scalable algorithms.

Short Biography: Dr. Nguyen Sy Tuan



Email: tuan.nguyensy@vlu.edu.vn

Dr. Tuan Nguyen-Sy serves as the head of the Lab for Computational Mechanics at Cosari, Van Lang University. He earned his PhD in 2010 from the University Paris-Est, specializing in computational mechanics. With over a decade of experience in the energy industry, Dr. Nguyen-Sy has applied his extensive background in engineering, mechanics, and physics to address critical challenges. In recent years, his research has pivoted towards machine learning, exploring its potential in addressing real-world issues such as predictive modeling, computer vision, and large language models. Passionate about harnessing cutting-edge AI techniques, Dr. Nguyen-Sy is dedicated to advancing sustainability goals. He regularly organizes workshops on machine learning applications and, through his work, aims to educate the next generation of scientists. His goal is to equip them with the skills necessary to contribute to solving global issues related to environmental and energy security.

Google scholar: <https://scholar.google.com/citations?hl=vi&user=LFVZMgYAAAAJ>

Topic 2: [Novel Learning of Bathymetry from Landsat 9 Imagery Using Machine Learning, Feature Extraction and Meta-Heuristic Optimization in a Shallow Turbid Lagoon](#)

Presenter: [Dr. Ha Nam Thang](#) (Faculty of Fisheries, University of Agriculture and Forestry, Hue University)

Short Biography: Dr. Ha Nam Thang



Email: hanamthang@hueuni.edu.vn

Education

Master of science in Environmental Science (University of Tsukuba, Japan)

PhD in Earth Science (University of Waikato, New Zealand)

Reference links:

Google scholar; <https://scholar.google.com/citations?user=68FzMA4AAAAJ&hl=vi&oi=ao>

**Ha Nam Thang, PhD**

Faculty of Fisheries, University of Agriculture and Forestry,
Hue University - Cited by 810 - GIS - Remote Sensing -
Aquatic Ecology - Ecosystem Service - Seagrass

scholar.google.com

Specialist in GIS & Remote sensing for:

Blue carbon ecosystems mapping & dynamics assessment

Vegetation health, biomass, carbon stock estimation

Water quality monitoring

Harmful algae blooms (HABs) monitoring

Machine learning implementation for studies in ecology and environment

Research interests

GIS spatial analysis

Functional zoning for conservation

Marine spatial planning

Remotely sensed images (i.e., space-borne and air-borne images) processing

Automated and cloud based computation (i.e., Google Earth Engine, Amazon web services)

Ecosystem services
