VIT®
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

ONE DAY International Workshop on Graph Coloring, Labeling: Algorithms and Applications (IWGCLAA-2026)

Online Mode
29th June 2026

Organized By

DEPARTMENT OF INFORMATION SECURITY
SCHOOL OF COMPUTER SCIENCE AND ENGINEERING
VELLORE INSTITUTE OF TECHNOLOGY

VELLORE – 632014
TAMIL NADU, INDIA

Coordinator

Dr. Nalliah M

About the Vellore Institute of Technology (VIT)

Vellore Institute of Technology was founded in 1984 in the name of Vellore Engineering College by the Chancellor Dr. G. Viswanathan. VIT attracts students from all the states of India and from more than 60 different countries due to its academic excellence. In recognition of its excellence in academics, research and extra curricular initiatives, the University status was conferred in 2001 by Ministry of Human Resource Development (MHRD), Government of India. Currently, VIT has 5 campuses located in Vellore, Chennai, Amravati, Bhopal and Bengaluru. The National Institutional Ranking Framework (NIRF) has ranked VIT as 21st in Overall Category, 14th in Research Category, 16th in Engineering Category and 14th in University Category, announced by the Ministry of Education, Government of India for the year 2025. VIT has accreditation by NAAC (India), IET (UK) and ABET (USA), and follows a world class academic process. VIT is the first University in India to get 4-Star Rating from QS - World University Rankings Organization. VIT has been ranked with 691th place by QS - World University Rankings, ranked among the top 501-600 institutions by Shanghai ARWU Ranking of World Universities, ranked as 173rd by Times Higher Education (THE) World Young University Rankings, and also ranked as the 156th best institution in Asia by QS - Asia University Rankings. ranked among the top 851-900 institutions by QS - World University Rankings, ranked among the top 601-700 institutions by Shanghai ARWU Ranking of World Universities, ranked among the top 301-350 institutions by Times Higher Education (THE) World Young University Rankings, and also ranked as 173rd best institution in Asia by QS - Asia University Rankings.

About the School of Computer Science and Engineering (SCOPE)

The school has one of the best infrastructures, including domain-specific labs associated with the technical departments. The main aim is to produce computing graduates with potential who can design and develop systems integrating software and hardware devices, employ innovative approaches to programming and problem-solving, and create large-scale software systems. To develop core competence in the subject matter specializations and special interest groups for learning newer technologies. The school has formed the Department of Analytics, Computational Intelligence, Database Systems, Information Security, IoT and Quantum AI.

About the Workshop

The One-Day International Workshop on Graph Coloring and Graph Coloring: Algorithms and Applications is designed to bring together

researchers, academicians, and students from across the globe to explore the fascinating world of graph theory. Graph coloring, a fundamental concept in discrete mathematics, has far-reaching applications in computer science, optimization, scheduling, and network design.

The One-Day International Workshop on Graph Coloring and Graph Labeling: Algorithms and Applications aims to provide participants with a comprehensive understanding of graph coloring techniques while highlighting current research trends and open problems in the field. The workshop will showcase real-world applications of graph coloring across diverse areas, including frequency assignment, register allocation, scheduling, and social network analysis. A key objective is to foster collaboration and knowledge exchange among international experts and young researchers, creating a vibrant platform for academic and professional growth.

The workshop will cover a wide range of themes, beginning with the basics of graph coloring and chromatic numbers, and extending to advanced coloring problems such as list coloring, edge coloring, and total coloring. Sessions will also address algorithmic approaches, complexity issues, and practical applications in computer science, engineering, and operations research. In addition, discussions will explore open challenges and future directions in graph coloring research, encouraging participants to engage with cutting-edge developments in the field.

This event is designed for university students at undergraduate, postgraduate, and doctoral levels, as well as faculty members and researchers in mathematics, computer science, and engineering. Industry professionals with an interest in optimization and network problems will also find the workshop highly relevant. It supports SDG 4: Quality Education, SDG 9: Industry, Innovation, and Infrastructure through innovative applications of graph coloring in optimization and network design**.** SDG 11: Sustainable Cities and Communities and SDG 17: Partnerships for the Goals**.**

Resource Persons

Dr. Gee-Choon Lau
Senior Lecturer
University Technology MARA (Segment Campus Malaysia.

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Dr. A.V. Prajeesh
Assistant Professor
IIT, Kotayam, Kerla.

Dr. Kamatchi
Associate Professor
Kamaraj College of Engineering and Technology
Virudhunagar.

Advisory Committee

Dr. N. Jaisankar

Professor and Dean-in-Charge, SCOPE

Dr. H Parveen Sultana

Professor and Associate Dean in charge, SCOPE

Dr. Gopinath M.P.,
Professor and Head, Department of Information Security, SCOPE

Coordinator
Dr. Nalliah M
Associate Professor
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SCOPE, VIT, Vellore.

Eligibility: The workshop is open to Faculties, Research Scholars, and UG/PG students. Fees are non-refundable once the registration process is complete.

Mode: Online

Registration Amount: Rs. 100+GST

Last date of Registration: June 28, 2026

Registration Link: https://events.vit.ac.in/

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