5 days international workshop on “Optimization Techniques in Industrial and Engineering Applications”

(IWOTIEA-2023)

Schedule: 6th to 10th January 2023

**Final date for registration:** 31 December 2022

**Participants Registration Link:** <https://vtop1.vitap.ac.in/IWOTIEA/Conferenceinitial>

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| **About VIT-AP University, Amaravati**  VIT-AP University founded under the eminent guidance of Founder and Chancellor Dr. G Viswanathan has emerged as one of the promising and prominent academic institutes in the country. Despite being a young institute, the excellent and unique quality of the teaching-learning experience, research and innovations shows the aspiration of the institute to become a global leader. In fact, VIT-AP University has ranked as No.1 in the emerging private universities in India by the Outlook University Ranking 2022. VIT-AP attracts students from almost all states of India because of its academic excellence. The University comprises of 7 prominent schools viz., School of Computer Science and Engineering (SCOPE), School of Electronics Engineering (SENSE), School of Mechanical Engineering (SMEC), School of Advanced Sciences (SAS), School of Social Sciences and Humanities (VISH), School of Business (VSB) and School of Law (VSL) with around 300 faculty members dedicated to fulfil the needs of various engineering and science departments. Almost all faculty members in the university are doctorates and are actively involved in teaching, learning and research. |

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| **About the School of Advanced Sciences (SAS)**  The School of Advanced Sciences (SAS) is one of the seven Schools of VIT-AP University and it houses the Departments of Mathematics, Physics, and Chemistry. Here students are taught how to think critically through project-based learning (PBL) and not merely what to think. Students are encouraged to question, explore, and research throughout their studies, ranging across the various discipline of sciences. Our school aims at providing a solid foundation in natural Sciences, projecting the recent scientific and technological developments to the graduate, postgraduate, and Ph. D. students. We aspire to be a valuable contributor towards the nation’s growth by producing highly skilled professionals and by engaging in cutting-edge research. SAS earnestly pursues a vision of providing local, regional, national and international leadership in the research and technology development. We believe in quality of education and research with ethical and professional standards for better tomorrow. Here, students make their choices based on their preferences and requirements that equips them with a balance of logical-thinking and problem-solving skills which are essential to tackle today & tomorrow’s professional challenges. |

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| **About the Department of Mathematics**  The Department of Mathematics at VIT-AP, has 49 dedicated faculty members with two exclusive programmes in Data Science at the under graduate and post graduate level besides fulfilling the needs of the various schools of Engineering, Business and Law. All faculty members are doctorates and are actively involved in research activities in addition to their regular teaching activities. The department is instrumental in setting scholastic standards and contributes holistically in developing young engineers and scientists. The department offers several research opportunities in a wide spectrum of areas of Mathematics such as Fluid Dynamics, Computational Fluid Dynamics, Solid Mechanics, Functional Theory, Network and Graph Theory, Fractal theory, Lie Algebras, Stochastic Processes, Coding Theory, Theory of Computation, Fuzzy Logics, Optimal Control Problems, Numerical Methods, Cosmology etc. |

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| About the **Workshop**  This workshop provides a platform for all the participants to enhance the knowledge, understanding and real time applications of various optimization techniques with hands on experience. It gives an opportunity to interact with various eminent professors, industry experts, and researchers in the silver lining area of optimization. The purpose of this workshop is to introduce and train the participants with many cutting-edge optimization techniques and tools to model real world problems with its optimal solution. The sessions of this workshops are specially designed in such a way that one can get a complete idea of optimization from very basic foundation to its practical implementation. One of the main attractions is the industrial outlook of the same which will bring the insight mechanism of the optimization in industrials.  This workshop benefits the students to get the exposure of optimization applications at industry level. It also provides a road map in upskilling the research scholars and faculties as well as supply a tool to understand the insight of optimization for industrial personal. |

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| **Organizers**  **Conveners**  Dr. Komandla Mahipal Reddy (Image link: <https://vitap.ac.in/wp-content/uploads/2019/06/Dr.-KOMANDLA-MAHIPAL-REDDY.jpg>),  Dr. Prashanth Maroju (Image link: <https://vitap.ac.in/wp-content/uploads/2020/08/Prashanth_70197.jpg>)  Dr. Shalini (Image link: <https://vitap.ac.in/wp-content/uploads/2019/08/shalini-1.jpg>)  **Organizing Secretary**  Dr. Sukanta Nayak (Image link: <https://vitap.ac.in/wp-content/uploads/2021/06/70305-Sukanta-Nayak.jpg>)  Dr. Chandan Kumar Thakur (Image link: <https://vitap.ac.in/wp-content/uploads/2020/08/chandan_70153.jpg>)  Dr. Ranjan Kumar (Image link: <https://vitap.ac.in/wp-content/uploads/2022/01/Dr-Ranjan.jpg>) |

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| **Co-ordinators & Committees**  **Website Coordinators**  Dr. Asish Kumar Dalai, Dr. Sukanta Nayak  **Registration Committee**  Dr. Pratik Premadarshi Ray  Dr. Kiran Kumar Patra  Dr. Vemula Ramakrishna Reddy  Dr. Tanuj Kumar  Dr. N Rajashekar  Dr. Kamalesh Kumar  **Publicity Committee**  Dr. Aswathy R K  Dr. Yada Nandukumar  Dr. Perumandla Karunakar  Dr. Parbati Sahoo  Dr. Faizan Danish  Dr. Aastha Madonna Sathe  **Organizing Members**  Dr. Nikunja Bihari Barik  Dr. M Sudhakar  Dr. M Phani Kumar  Dr. Satyanarayana Badeti  Dr. Venkatrajam Marka  Dr. Gaddam Sharat |

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| **Advisory Committee**   1. Dr. Santanu Mandal, Dean, SAS, VIT-AP University, Amaravati 2. Prof. S. Srinivas, SAS, VIT-AP University, Amaravati 3. Dr Sohini Roychoudhury, Accenture USA, Santa Clara University, University of Washington 4. Dr. Treanta Savin, Associate Professor Department of Applied Mathematics, Faculty of Applied Sciences, University Politehnica of Bucharest, 060042 Bucharest, Romania 5. Dr. Najeeb Abdulaleem, Faculty of Mathematics and Computer Science, University of Lodz, Poland, Department of Mathematics, Hadhramout University, Al- Mahrah, Yemen 6. Dr. Kishore, University of Technology and Applied Sciences, Al Mussanah, Sultanate of Oman. 7. Prof. Prasun Das, Professor, ISI Kolkata 8. Prof. G. Saravana Kumar, Professor, Department of Engineering Design, IIT Madras 9. Prof. Samarjit Kar, Professor, NIT Durgapur |

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| **Speakers**   1. Dr Sohini Roychoudhury, Accenture USA, Santa Clara University, University of Washington 2. Dr. Treanta Savin, Associate Professor Department of Applied Mathematics, Faculty of Applied Sciences, University Politehnica of Bucharest, 060042 Bucharest, Romania 3. Dr. Najeeb Abdulaleem, Faculty of Mathematics and Computer Science, University of Lodz, Poland, Department of Mathematics, Hadhramout University, Al- Mahrah, Yemen 4. Dr. Kishore, University of Technology and Applied Sciences, Al Mussanah, Sultanate of Oman. 5. Prof. Prasun Das, Professor, ISI Kolkata 6. Prof. G. Saravana Kumar, Professor, Department of Engineering Design, IIT Madras, India 7. Prof. Samarjit Kar, Professor, NIT Durgapur 8. Dr Anurag Jayswal, Associate Professor IIT(ISM) Dhanbad, India 9. Dr. Jagdish Chand Bansal, Associate Professor (Senior Grade) at South Asian University New Delhi 10. Dr. Debdas Ghosh, Assistant Professor, Indian Institute of Technology BHU, Varanasi 11. Dr. Tanmoy Roy, Senior Data Scientist, Cloudcraftz Solutions Pvt Ltd 12. Dr. Pramod Kumar Parida, Assistant Professor (SS), UPES, Dehradun - 248007 13. Dr. Shubhik Chatterjee, Senior Team Lead, Customer Success Engineering, MathWorks India 14. Dr. Ranjan Kumar Jana, Assistant Professor, Sardar Vallabhbhai National Institute of Technology (SVNIT), India |