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Prof. V. Ramgopal Rao
Vice-Chancellor, BITS Pilani

Patron



Prof. Sudhirkumar Barai
Director, BITS Pilani, Rajasthan

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Prof. Ashish Tiwari
Head, Mathematics

Organizing Chairs/Conveners



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Mathematics



Prof. Rajesh Kumar
Mathematics

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Prof. Sangita Yadav, Mathematics



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Prof. Shailesh Trivedi, Mathematics
Prof. Shivi Agarwal, Mathematics
Prof. Shuchita Goyal, Mathematics

HONORARY / PLENARY/ KEYNOTE / INVITED SPEAKERS

Prof. Biswa Nath Datta, Northern Illinois University, USA
Dr. Bhupendra Singh, CAIR, DRDO, Bangalore, India
Prof. Natesan Srinivasan, IIT Guwahati, India
Prof. Thirupathi Gudi, IISc Bangalore, India
Prof. Bibhas Adhikari, Fujitsu Research of America, Inc., USA
Prof. S. Sundar, IIT Madras, India
Prof. Ram N Mohapatra, Univ. of Central Florida, USA
Prof. Rajen Kumar Sinha, IIT Guwahati, India
Prof. Tanmoy Chakraborty, IIT Delhi, India
Prof. Swaroop Nandan Bora, IIT Guwahati, India
Dr. Souvik Chakraborty, IIT Delhi, India
Prof. Predrag S. Stanimirovic, University of Nis, Serbia
Prof. Sanjib Basu, University of Illinois Chicago, USA
Prof. M. Tanveer, IIT Indore, India
Prof. Mathews Nkhoma, RMIT University, Melbourne, 00122A, Australia
Prof. Tapan Kumar Gandhi, IIT Delhi, India
Prof. Jugal Mohapatra, NIT Rourkela, India
Prof. Pratibhamoy Das, IIT Patna, India
Prof. Waleed Adel, Nile University, Egypt
Prof. Kuldip Singh Patel, IIT Patna, India
Prof. Sangita Das, IISER Berhampur, Odisha, India
Mr. Rohit Kumar, Global Head of AI, HCLTech, India
Prof. Sekhar Ghosh, NIT Calicut, Kerala, India
Prof. Younis A. Sabawi, Koya University, Iraq
Prof. Prem Chhetri, RMIT University, Melbourne, 00122A, Australia
Prof. N Anil, BITS Pilani, Hyderabad Campus, India
Prof. Sunil Kumar, IIT BHU, India
Prof. Ankik Kumar Giri, IIT Roorkee, India
Prof. Ritu Agarwal, MNIT Jaipur, India

SCIENTIFIC ADVISORY COMMITTEE

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Prof. M Tanveer, IIT Indore, IND
Prof. Pravati Swain, NIT Goa, IND
Prof. Predrag S. Stanimirovic, University of Nis, Serbia

CALL FOR CONTRIBUTIONS

Original research contributions are welcomed across the ASCML 2027 thematic areas. Abstracts for contributed talk/oral presentation and full papers for proceedings are due by 30 November 2026.

IMPORTANT DATES

Registration starts	30 Sep 2026
Abstract / full paper deadline	30 Nov 2026
Abstract acceptance notification	10 Dec 2026
Registration closes	15 Dec 2026
Conference	21–23 Jan 2027

BITS Pilani
Pilani Campus
An Institution of Eminence

ASCML 2027

2nd International Conference on

Advanced Scientific Computing and Machine Learning

Organized by

Department of Mathematics

BITS Pilani, Pilani Campus, Rajasthan, India

January 21 – 23, 2027



Conference Website: ASCML 2027
https://www.bits-pilani.ac.in/ascml2027

About BITS Pilani

The Birla Institute of Technology & Science, (BITS) Pilani is an Indian institute for higher education. Started in early 1900s as a small school, it blossomed into a set of colleges for higher education, ranging from Humanities to Engineering until 1964, when all these colleges amalgamated to culminate into a unique Indian university of international standard. This university was rechristened as the Birla Institute of Technology and Science, Pilani, known to many as BITS, Pilani. Over the years, BITS Pilani has provided the highest quality of technical education to students from all over India, admitted on the basis of merit. It is located in the Vidya Vihar campus adjacent to the town of Pilani in Rajasthan. In 2000, BITS Pilani opened a campus in Dubai making it the first Indian university with an overseas campus. Subsequently, in the year 2004 and 2008 BITS Pilani opened its campuses in Goa and Hyderabad respectively. In 2021, the institute opened its latest campus in Mumbai with BITS School of Management (BITSoM). Subsequently in 2023 BITS Law School and in 2024 BITS Design School was started in its Mumbai campus. BITS Pilani is establishing a new AI Plus (AI+) campus in Amaravati, Andhra Pradesh. BITS, Pilani, is widely recognized for its excellence in education, research, and entrepreneurship. In acknowledgment of its strong academic ecosystem and robust research infrastructure, the Ministry of Education, Government of India, conferred upon BITS Pilani the prestigious "Institution of Eminence" status in 2018.

About Department of Mathematics

The Department of Mathematics was established in 1944 as part of Birla Science College, which was later incorporated into Birla Institute of Technology and Science, Pilani in 1964. Since its inception, the department has been dedicated to excellence in teaching and research across a broad spectrum of mathematical sciences. The department offers educational and research opportunities in diverse areas including Algebra, Analysis, Differential Equations, Discrete Mathematics, Statistics, Operations Research, and Mathematical Modelling. It conducts several core mathematics courses for students in the integrated first degree programs (B.E. in Mathematics and Computing and M.Sc.) at the Pilani campus. It also offers specialised courses for students enrolled in the M.Sc. and Ph.D. programs in Mathematics. The department further plays a vital role in the Institute's Work Integrated Learning Programs (WILP), designed for working professionals across various industries. Supported by a highly motivated faculty with diverse expertise in mathematical sciences, it provides strong opportunities for research in core mathematics as well as interdisciplinary areas in science, engineering, and technology. Committed to academic excellence and innovation, the department strives to prepare students to become future leaders in engineering, science, and research. Committed to academic excellence and innovation, the department also supports the Institute's strong academic standing, reflected in its QS World University Rankings position in the 250–300 band globally.

Conference Highlights

- Keynote and plenary lectures by distinguished experts
- Invited talks and technical paper presentations
- Panel discussions and networking sessions
- Interdisciplinary exchange across scientific computing, computational mathematics, data science, and AI
- Emerging trends and breakthroughs in AI-driven scientific computing
- State-of-the-art methods in mathematical modeling, simulation, and data analytics
- Interactive technical sessions and opportunities for research collaboration
- Young researcher and student engagement through paper/poster presentations
- Industry–academia interaction and knowledge transfer
- Opportunities to explore new collaborations, projects, and research networks
- Exposure to cutting-edge computational tools, methodologies, and applications

Conference Themes

The conference invites manuscripts presenting the original work of researchers from Science, Engineering, and Academia. The topics of the conference will focus on (but not limited to) are listed below:

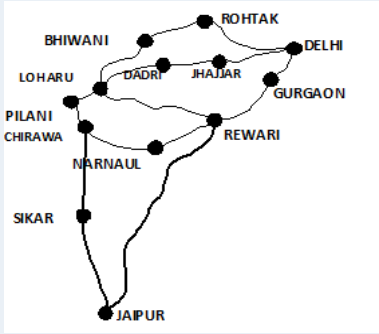
- ✓ Numerical Analysis and Scientific Computing
- ✓ Approximation Theory and Computational Mathematics
- ✓ Computational PDEs
- ✓ Machine Learning and Deep Learning
- ✓ Fractional Calculus and Applications
- ✓ Numerical Linear Algebra and Optimization
- ✓ High-Performance and GPU Computing
- ✓ Scalable Algorithms and Scientific Software
- ✓ Inverse Problems and Uncertainty Quantification
- ✓ Artificial Intelligence and Intelligent Systems
- ✓ Theory-Informed and Physics-Informed Neural Networks
- ✓ Data Science and Big Data Analytics
- ✓ Cryptology and Cyber Security
- ✓ Computational Fluid Dynamics
- ✓ Quantum Computing and Information Theory
- ✓ Mathematical Modeling and Simulation
- ✓ Bioinformatics and Computational Biology
- ✓ Parallel and Distributed Computing

Conference Venue

Department of Mathematics,
Birla Institute of Technology and Science (BITS) Pilani,
New Academic Building, Vidya Vihar, Pilani, Rajasthan 333031, India

How to Reach Pilani

Pilani can be reached either by road or by rail. The nearest airports are Indira Gandhi International (IGI) Airport, Delhi and Jaipur International Airport, Jaipur. Nearest railway stations are Chirawa (16 Km) and Loharu (24 Km). Regular bus services operate between Delhi–Pilani and Jaipur–Pilani. Campus is very close to Pilani bus stand.



Vande Bharat Express (Most Convenient)

The Vande Bharat Express (Train No. 26472) from Delhi Cantt (DEC) to Loharu (LHU) is the most convenient way to reach Loharu, covering 160 km in about 2 hours 10 minutes with excellent punctuality. Departs Delhi Cantt at 16:45 (arrives Loharu 18:55), runs on Mon, Tue, Thu, Fri, Sat, Sun (except Wed). Classes: EC, CC. From Loharu, buses/jeeps take you to Pilani quickly.

About the Conference

ASCML 2027 aims to bring together leading researchers, academicians, scientists, industry experts, and students from across the globe to exchange ideas, present cutting-edge research, and discuss emerging developments in scientific computing, computational mathematics, data science, and artificial intelligence. The conference is designed as an interdisciplinary platform connecting mathematical sciences, computational sciences, and machine learning communities, with emphasis on numerical methods, mathematical modeling, high-performance computing, data-driven scientific discovery, and intelligent systems.

Registration & Submission

Registration opens: 30 September 2026
Abstract submission deadline: 30 November 2026
Full paper submission deadline: 30 November 2026
Abstract acceptance notification: 10 December 2026
Registration closes: 15 December 2026
Registration fee and detailed registration process: please refer to the conference website for updates.

Registration / Website

Scan the QR code for the ASCML 2027 website
https://www.bits-pilani.ac.in/ascml2027/

Contact

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