

Report on “International conference on differential equation and control problem (ICDECP-23)” 15-17 June, 2023

The School of Mathematical & Statistical Sciences, Indian Institute of Technology Mandi, Himachal Pradesh, India has successfully organized the International Conference on Differential Equations and Control Problems (ICDECP23) during June 15-17, 2023. Technological advances require a deep understanding of physical processes in engineering and science. A variety of such physical processes can be modelled as differential equations or control problems and understood by the analysis and computations of their solution. This interdisciplinary combined event provided a common forum for young applied mathematicians and engineers where they learnt the applications of mathematics in the areas of Differential Equations and Control Problems. Further, they exchanged research ideas involving theoretical and applied developments in differential equations, control problems and computation. The main objective of this conference was to bring together scientists, engineers and mathematicians working in theory, modelling and computations of differential equations, control problems and their associated applications. It aimed, at fostering co-operation among practitioners and theoreticians working in this field.

On 15, June 2023, the event was started with the inauguration ceremony. The inauguration ceremony was graced by the chief guest Prof. Anuj Mubayi from Illinois State University, USA, Guests of Honor, Prof. Dharendra Bahuguna, IIT Kanpur and Prof. A. K. Nandkumaran, Head of the Department of Mathematics, IISc Bangalore, Patron, Prof. Laxmidhar Behera, Director, IIT Mandi, and convener Dr. Muslim Malik, Chairperson and Associate Professor of School of Mathematical and Statistical Sciences, IIT Mandi. The inaugural ceremony was attended by around 210 great minds of India and abroad. In inaugural ceremony, firstly the lamp lighting ceremony was conducted and then guests were felicitated. Then the Convenor welcomed all the dignitaries and the participants and briefed them about the conference. Patron Prof. Laxmidhar Behra also welcomed the guests and briefed them about IIT Mandi. After this, the first keynote session of the event was started which was delivered by Prof. Laxmidhar Behra.



In this conference, we had 21 keynote talks and around 40 invited talks from the eminent professors/scientist of India and abroad. There were more than 100 oral presentations which were covered in about 25 sessions. In this conference, about 65 faculties and about 140 students participated. In the list of keynote speakers, we had the Bhatnagar award winner, Prof. Sandeep K. from TIFR CAM Bangalore.



On 16, June 2023, we had two special sessions dedicated to Prof. A. K. Nandkumaran and Prof. Dharendra Bahuguna. We started our second day with the first session by the talk of Prof. A.K. Nandkumaran followed by his Ph.D. students and Post. Doc. fellows. Then the second session of the day was dedicated to Prof. Dharendra Bahuguna. In this session, Prof. Dharendra Bahuguna and his Ph.D. students gave excited talks. After these special sessions, we had 3 parallel sessions of invited speaker's talks followed by the 7 parallel sessions of contributed presentations by the student participants.



On 17, June 2023, the last day of conference "ICDECP-23," we organized a closing ceremony. In the closing ceremony, a vote of thanks was given by Prof. Syed Abbas and we also obtained feedback from the speakers and participants of conference. Also, we declared the three best paper presentation awards to the student participants.

