



DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

ACADEMIC ACTIVITIES – JULY 2022

Journals published:

Amit Kumar Singh, Y. Chauhan and N. Sharma, Comparative performance analysis of intelligent controllers for solar tracking system, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2022.06.388>.

Karanveer, “A spider tool-based qualitative analysis of machine learning for wrist pulse analysis”. (ESCI/Scopus)

Karanveer, “Gender based assessment of gait rhythms during dual-task in Parkinson’s disease and its early detection”. (SCI)

Karanveer, “Recent approaches on classification and feature extraction of eeg signal: a review” (SCI)

Conference Publications:

Nitish, **Amit kumar singh**,” Active control of railway vehicle suspension using PID control with pole placement technique” accepted and presented in 3rd International Congress on Advances in mechanical and systems Engineering (CAMSE 2022) (14-16th July 2022).

Shubham gupta, **Amit kumar singh**,” A critical review on the role of Input variable selection methods used to estimate Global solar radiation” accepted and presented in 3rd International Congress on Advances in mechanical and systems Engineering (CAMSE 2022) (14-16th July 2022).

Noor Shiza, **Amit kumar singh**,” Review on Control strategies utilized for performance enhancement of Antilock braking system” accepted and presented in 3rd International Congress on Advances in mechanical and systems Engineering (CAMSE 2022) (14-16th July 2022).

Dr. S. K. Pahuja, “Effects of Measurement Sites on Heart Rate Variability Derived from Photoplethysmography” at ICT4SD 2022, on 29.7.2022.

Disha Sharma, Dr. **Sheela Tiwari**, “Metaheuristic algorithms based PID controllers for triple link inverted pendulum” in the conference CCPE-2022.

Dr. Rajesh Singla,” EEG Based Attention Score Analysis of Two Game Genre” International Conference on Computational Intelligence and Smart Communication (ICCISC-2022) – Springer, 10 -11 June 2022.

Patents/Copyrights:

Dr Roop Pahuja has filed a copyright on “IRRISIM: A Novel Irrigation Simulator using Variable Rate Controllers and Performance Analysis” 15017/2022-CO/SW, DR BR Ambedkar NIT -Jalandhar, 12-07-22.

Expert Lectures outside Institute

Dr Dilbag Singh delivered an Expert Lecture in online short-term course on “Advanced Control Systems & Experiments (ACSE-2022)” during July 18-23, 2022, at EED, NIT Kurukshetra.

Outreach Activities

Dr Dilbag Singh was invited for BoS meeting of the Physics Department is scheduled on Friday (29/7/2022) at 11.30 am in the office of Head, NIT Jalandhar.

Dr Dilbag Singh was invited for meeting at Departmental Research Committee (DRC) of Electrical Engineering Department, NIT Kurukshetra was held on 12-07-2022 (Tuesday) at 11.00 AM

Dr Dilbag Singh was the External examiner for PhD Thesis of Mr. Dipen Deka, Dept. of Electronics and Communication Engineering, Tezpur University

Dr Dilbag Singh served as observer for All India SLIET Entrance test on 17.7.2022 at Jalandhar.

Dr S. K. Pahuja was invited as External examiner for MTech Viva Voce at NIT KURUKSHETRA, held on 18.07.2022.

Dr K. S. Nagla was invited as member of Board of Studies in Mechanical Engineering, NITJ on 19.07.2022.

PhD Guidance

Mr. Vishal vishoi, PhD scholar under the supervision of **Dr. Rajesh Singla** and **Dr. Sheela Tiwari** has submitted his thesis.