

# Faculty Profile



**Name: Dr. Nitish Kumar Singh**

**Designation:** Asst. Professor

**Teaching Area:** Complex analysis, Functional analysis, Linear algebra, Real analysis, Geometry, ODE, PDE



**Research Interest:** Control Theory, Functional analysis, fixed point theory

**Experience (In Years):** 1+

**Academic qualifications:** B.Sc, M.Sc and PhD (Analysis of iterative learning control and its applications)

## Major Research Publications:

- (1) D. R. Sahu and Nitish Kumar Singh, "Convergence of novel iterative learning control methods for a class of linear discrete-time switched systems", *Innovations in Electrical and Electronic Engineering*, Springer, (2021), pp. 441–457.
- (2) D. R. Sahu and Nitish Kumar Singh, "Second-order iterative learning control for a class of switched discrete-time systems with model uncertainties, external noises and time-delay", *Journal of Difference Equations and Applications*, (2023), pp.1–23.
- (3) D. R. Sahu and Nitish Kumar Singh, "p-Accelerated Normal S-Iterative Learning Control Algorithm for Linear Discrete Singular Time-Delay Systems", *International Journal of General Systems*, 53, (2023), No. 1, pp. 1-25.
- (4) D. R. Sahu and Nitish Kumar Singh, "Robust tracking of discrete-time linear switched systems with disturbance via second-order ILC with data loss" *Journal of Control and Decision*, 2024, 1–12.

## Conference/ Workshop/ School attended

- (1) I have participated in International Conference on Recent Trends in Analysis and Optimization (ICRTAO-2020), organized by NITTTR, Bhopal held during 09-11, November 2020
- (2) I have participated in 2021 International Conference on Electrical And Electronics Engineering (ICEEE 2021), Jointly organized by School of Engineering, University of Malaya (Malaysia) & School of Electrical, Electronics and Communication Engineering, Galgotias University (India) 02-03, January 2021, (Paper Presented).
- (3) I have participated in International Conference on Nonlinear Applied Analysis and Optimization 2021 organized by Department of Mathematical Sciences, IIT (BHU), Varanasi during 21-23, December 2021, (Paper Presented).
- (4) I have participated in 27th International Conference of International Academy of Physical Sciences (CONIAPS XXVII) on Functional and Numerical Analysis organized by School of Studies in Mathematics, Pt. Ravishankar Shukla University, Raipur during 26-28, October 2021, (Paper Presented).
- (5) I have participated in 2nd International Conference on Nonlinear Applied Analysis & Optimization and NMD 2022 organized by Department of Mathematical Sciences, IIT (BHU), Varanasi during 19-22, December 2022, (Paper Presented).

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## Workshop/ School attended

- (1) I have participated in the Workshop on Exploring Some Applications of Mathematical Sciences held at Department of Mathematics, Banaras Hindu University, Varanasi from January 19, 2019 to January 20, 2019
- (2) I have participated in the International Workshop on "Fixed Point Theory and its Applications" held at Department of Mathematics, Jamia Millia Islamia, New Delhi from March 15, 2019 to March 17, 2019