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## RESEARCH & PUBLICATIONS

### PUBLISHED RESEARCH ARTICLE IN JOURNALS/ PROCEEDINGS

1. H. Dasgupta, Sucharita Chakrabarti, Prabir Chakraborty, "A FIXED-POINT THEOREM OF CACCIOPPOLI-KANNAN TYPE ON A CLASS OF GENERALIZED METRIC SPACES", International Mathematical Forum, Vol. 9, no. 28, 1357-1361(2014). DOI: 10.12988/imf.2014.4227
2. P. Chakraborty, U. Ghosh and S. Sarkar, "STABILITY AND BIFURCATION ANALYSIS OF A RATIO DEPENDENT DISCRETE PREY-PREDATOR MODEL WITH LINEAR HARVESTING", 2018 4th IEEE International Conference on Recent Advances in Information Technology (RAIT), Dhanbad, pp. 1-7 (2018). DOI: 10.1109/RAIT.2018.8389015
3. P. Chakraborty, U. Ghosh and S. Sarkar, "STABILITY AND BIFURCATION ANALYSIS OF A DISCRETE PREY-PREDATOR MODEL WITH SQUARE-ROOT FUNCTIONAL RESPONSE AND OPTIMAL HARVESTING", Journal of Biological Systems, World Scientific 28(01), 91-110 (2020). DOI:10.1007/s13538-022-01189-2
4. P. Chakraborty, U. Ghosh and S. Sarkar, "STABILITY AND BIFURCATION ANALYSIS OF A DISCRETE PREY-PREDATOR MODEL WITH SIGMOID FUNCTIONAL RESPONSE AND ALLEE EFFECT", Rendiconti del Circolo Matematico di Palermo Series 2, Springer, 1-21 (2020). DOI:10.1007/s13538-022-01189-2
5. P. Chakraborty, U. Ghosh and S. Sarkar, "STABILITY AND BIFURCATION ANALYSIS OF A RATIO DEPENDENT DISCRETE PREY-PREDATOR MODEL WITH CHAOS-CONTROL", Journal of Tripura Mathematical Society, Vol. 23, pp 176-192,(2021).
6. U. Ghosh, S. Sarkar and P. Chakraborty, "STABILITY AND BIFURCATION ANALYSIS OF A DISCRETE PREY-PREDATOR MODEL WITH MATE-FINDING ALLEE, HOLLING TYPE-I FUNCTIONAL RESPONSE AND PREDATOR HARVESTING", Braz J Phys, Springer, 52, 190 (2022). DOI:10.1007/s13538-022-01189-2

**PAPERS PRESENTED/INVITED TALKS IN ACADEMIC SEMINARS/CONFERENCE/WORKSHOP:**

TITEL OF THE SEMINAR	ORGANIZED AND SPONSORED BY	DATE	TITLE OF THE PAPER/ INVITED TALK
“Indian Workshop and Symposium on Modeling, Experimentation and Simulation on Complex System”.	SERB-DST, GOI & IOCL Sponsored Indian Workshop and Symposium organized by Haldia Institute of Technology, Haldia, West Bengal	05-07 August 2015	“Stability and Bifurcation Analysis of Logistically Grown SIR Model with Effect of loss of Immunity of the Recovered Class.”
4th IEEE International Conference on Recent Advances in Information Technology (RAIT-2018)	Department of Computer Science & Engineering, IIT(ISM) Dhanbad-826004, Jharkhand, India	15-17, March 2018	“Stability and bifurcation analysis of a ratio dependent discrete prey-predator model with linear Harvesting”
International Conference on Emergent Research in Mathematics and Engineering - (ICERME-2019)	Department of Mathematics, NIT Agartala sponsored by TEQIP-III (Awarded as “Best Paper presenter”)	17-18, May 2019	“Stability and Bifurcation Analysis of a Ratio Dependent Discrete Prey-Predator Model with Chaos-Control”
International webinar on Recent Advances in Pure and Applied Mathematics- (RAPAM-2020)	Department of Mathematics, Kurseong College, Darjeeling,	August 24-25, 2020	Stability and Bifurcation Analysis of a Discrete Prey-Predator Model with Holling’s Type-II Functional Response, Cooperative Hunting and Additive Allee Effect
Invited talk on the occasion of “National Mathematics Day”	JIS college of Engineering, Kalyani	20 <sup>th</sup> December 2020	“Number theory and its Applications”

**SOME SEMINARS/CONFERENCE/WORKSHOP/FDP ATTENDED:**

1. National workshop on "Nonlinear Dynamical Systems" during 04-08 July, 2011 at National Institute of Technology, Durgapur.
2. AICTE sponsored National Conference on “Synthesis Characterization & Simulation in Nanoscience & Technology” during Feb 24-25, 2012 at JIS College of Engineering, Kalyani, Nadia, West Bengal.
3. TEQIP sponsored International Conference on “Computation and Communication Advancement (IC3A)-2013” during January 11-12, 2013 at JIS College of Engineering, Kalyani, Nadia, West Bengal.
4. National Seminar on “Advances in Mathematics and Applications” during March 6-7, 2013 at The University of Burdwan, West Bengal, India.
5. TEQIP sponsored “Institutional Academic Workshop” on 20<sup>th</sup> April 2013 at JIS College of Engineering, Kalyani, Nadia, West Bengal.
6. “National Conference on Pure and Applied Mathematics” during 9-10 May 2013 at Royal Group of Institutions, Guwahati.
7. Faculty Development program on “Engineering Trends in Computing and Computation” during 5<sup>th</sup> -11<sup>th</sup> January 2015 at Haldia Institute of Technology.
8. DST funded “National Seminar on Advanced Functional Material, Technology & Its Social Implications” during 30<sup>th</sup>- 31<sup>st</sup> January, 2015 at Dept. of Applied Sciences, Haldia Institute of Technology.
9. One-week Faculty Development program on “BRIDGING GAP BETWEEN ACADEMIA & INDUSTRY” during 5<sup>th</sup>-11<sup>th</sup> February, 2015, organized by IIPC & TPO cell at Haldia Institute of Technology.
10. Three-day lecture workshop on “Hyperbolic Partial Differential Equations and Laws (HPDECL-2016)” during 10- 12<sup>th</sup> August 2016, organized by the Department of Applied Mathematics, University of Calcutta.
11. One Day State Level Seminar on “Age of Awakening: History, Culture and Literature in 19<sup>th</sup> Century Bengal” held on 20<sup>th</sup> August 2016, organized by Kaliganj Govt College.

12. MHRD sponsored one day awareness workshop on NMEICT on 3<sup>rd</sup> September 2016, jointly organized by NIT, Durgapur and the Ministry of Higher Education, Govt. of West Bengal.
13. 4th IEEE International Conference on Recent Advances in Information Technology (RAIT-2018) during 15-17 March 2018 organized by Department of Computer Science & Engineering, IIT(ISM) Dhanbad-826004, Jharkhand, India.
14. UGC sponsored Refresher Course in Mathematics (Mathematics: Aesthetic pleasure, Stern perfection & Supreme beauty) from 01-14 August 2019 at the University of North Bengal. Etc.
15. One Month Induction Programme organized from 05 October to 03 November 2020 by the UGC-HRDC, Jamia Millia Islamia, New Delhi. Etc.
16. Refresher Course on the theme "AI & Open Research Tools for Advancing Environmental Sustainability" under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by "MM-TTC: Ramanujan College, Delhi" In collaboration with St. Joseph's College (autonomous) Irinjalakuda, Kerala from 24 April, 2025 - 07 May, 2025 and obtained Grade A+.
17. Participated in Online Faculty Development Programme (FDP) titled as "Transcending Mathematics: Theoretical Escalation to Interdisciplinary and Industrial Innovations." during 21-25 July 2025 organized by Department of Mathematics, Amity University Kolkata.

#### **ACADEMIC SEMINARS/CONFERENCE/WORKSHOP ORGANIZED**

1. Organized HIGHER EDUCATION DIRECTORATE Sponsored TWO-DAY NATIONAL SEMINAR-CUM WORKSHOP ON "Recent Advances in Mathematics and Mathematical Sciences: Its Teaching and Learning" during 22<sup>nd</sup> and 23<sup>rd</sup> February, 2017 at Govt. General Degree College, Muragachha, as a Joint Convener.
2. Organized One-Day International Webinar on "Mathematical Modeling and its Application" on 18<sup>th</sup> September 2020 at the Govt. General Degree College, Muragachha, as a Convener.

#### **Revision of Research Article:**

Acted as a reviewer for the following international peer-reviewed journals:

1. International Journal of Bifurcation and Chaos (IJBC) in Applied Sciences and Engineering, World Scientific. Impact Factor: 2.2 (2022)
  2. Nonlinear Dynamics (NODY), An International Journal of Nonlinear Dynamics and Chaos in Engineering Systems, Springer. Impact factor: 5.6 (2022)
  3. The European Physical Journal - Plus (EPJ Plus), Springer. Impact factor: 3.4 (2022)
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