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Personal Details

DR. SAMIRAN KARMAKAR

ASSISTANT PROFESSOR,
DEPARTMENT OF MATHEMATICS,
BANKURA SAMMILANI COLLEGE,
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Date of Birth : 04/04/1981

Educational Qualification : Ph.D., M.Sc.

Permanent Address : Nabapally (Near Circuit House)
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Date of Joining : 26/03/2015

Areas of Teaching : Ordinary and Partial Differential Equations, Advanced Analytical Dynamics, Operations Research and Game Theory, Advanced Probability Theory and Statistical Methods

Research Interest : Interval Mathematics and its Applications in Optimization Theory and Operations Research.

List of Research Papers in National / International Journal

- i) Title of the article: "An efficient interval computing technique for bound constrained uncertain optimization problems", Journal: *Optimization: A Journal of Mathematical Programming and Operations Research*, Journal Publisher: Taylor and Francis Group, ISSN No. 0233-1934 (Print), 1029-4945 (Online), Publication: Vol. 63, Issue 11, pages: 1615 – 1635, 2014.
- ii) Title of the article: "A nonlinear interval programming technique for uncertain optimization problems via multiobjective programming", Journal: *Journal of the Egyptian Mathematical Society (JOEMS)*, Journal Publisher: Elsevier Science, ISSN No. 1110 – 256X, Publication: Vol. 22, Issue 2, pages: 292 – 303, 2014.

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- iii) Title of the article: “**Uncertain constrained optimization by interval-oriented algorithm**”, Journal: *Journal of the Operational Research Society (JORS)*, Journal Publisher: **Palgrave Macmillan Journal Publishers**, ISSN No. **0160-5682 (Print), 1476-9360 (Online)**, Publication: Vol. 65, pages: 73-87, 2014.
- iv) Title of the article: “**A new multi-section based technique for constrained optimization problems with interval valued objective function**”, Journal: *Applied Mathematics and Computation (AMC)*, Journal Publisher: **Elsevier Science**, ISSN No. **0096 - 3003**, Publication: Vol. 225, pages: 487-502, 2013.
- v) Title of the article: “**On constrained optimization by interval arithmetic and interval order relations**”, Journal: *OPSEARCH*, Journal Publisher: **Springer**, ISSN No. **0030-3887 (Print), 0975-0320 (Online)**, Publication: Vol. 49 (1), pages: 22-38, 2012.
- vi) Title of the article: “**A comparative study of different order relations of intervals**”, Journal: *Reliable Computing*, Journal Publisher: **University of Louisiana at Lafayette, USA**, ISSN No. **1573-1340**, Publication: Vol. 16, pages: 38-72, 2012.
- vii) Title of the article: “**Interval oriented multi-section techniques for global optimization**”, Journal: *Journal of Computational and Applied Mathematics*, Journal Publisher: **Elsevier Science**, ISSN No. **0377-0427**, Publication: Vol. 224(2), pages: 476-491, 2009.
- viii) Title of the article: “**Multi-Section Method for Global Solution of Non-Linear Optimization Problems by Interval Computing Technique**”, Published in the Proceedings of the UGC sponsored National Seminar on ‘**Recent Advances in Operational Research and Related Computational Aspects**’, Dept. of Applied Mathematics, University of Calcutta, August 22-23, 2007.

Papers presented and attended in National / International seminars / conferences / workshop

Sl. No.	Name of the Conference	Venue	Duration	National/ International	Title of the paper presented
1.	Mathematics and Applications – Recent Trends	Dept. of Mathematics, The University of Burdwan.	January, 10-12, 2007	National	Nil
2.	Emerging Trends in Computational	Dept. of Applied Mathematics with Oceanology	31 January and 1 st February,	National	Nil

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	and Applied Mathematics	and computer Programming, Vidyasagar University, Midnapore.	2007		
3.	Recent Advances in Operational Research and Related Computational Aspects	Dept. of Applied Mathematics, University of Calcutta.	August 22-23, 2007	National	Multi-Section Method for Global Solution of Non-Linear Optimization Problems by Interval Computing Technique
4.	International Conference on Frontier of Mathematics and Applications	Dept. of Mathematics, The University of Burdwan.	January, 16-18, 2008	International	Interval Oriented Multi-splitting Techniques for Non-Linear Global Optimization
5.	Third National Conference on Management Science and Practice	Indian Institute of Management, Ahmedabad	March 22-24, 2008	National	A New Interval Computing Process for Non-linear Constrained Optimization
6.	National Conference on "Advances in Mathematics"	Dept. of Mathematics, Gauhati University.	September 4-7, 2008	National	A study on Interval Order Relations
7.	Emerging Areas in Mathematics and Applications	Dept. of Mathematics, The University of Burdwan.	February 18-20, 2009	National	Nil
8.	Uncertainty: A Mathematical Approach	Maharajadhiraj Uday Chand Women's College	February 27, 2009	National	Nil
9.	Governing Business in the 21 st Century – Opportunities and Challenges	St. Xavier's College (Autonomous), Kolkata	November 20-21, 2009	National	Nil
10.	Recent Advances in Mathematics & Applications	Dept. of Mathematics, The University of Burdwan.	January, 13-15, 2010	International	A note on constrained global optimization with interval valued objective function.
11.	Social Security Vs Human Rights in India: An Introspection	Ramananda College, Bishnupur	September 25-26, 2010	National	Nil
12.	Recent Reforms in Education in India: Trends and Challenges	University B.T. & Evening College and Tufangang College	October 1-2, 2010	National	Nil
13.	31 st Annual Conference of	St. Xavier's College	February, 12-13,	National	Nil

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	Bengal Economic Association (BEA)	(Autonomous), Kolkata	2011		
14.	Search for a Holistic Combination of Agriculture, Industry & Education.	St. Xavier's College (Autonomous), Kolkata	December 8, 2011	International	Nil
15.	Operations Research for Sustainable Development in Globalized Environment	Operations Research Society of India	January, 06 – 08, 2012	International	An Application of Multi-objective Programming in Nonlinear Constrained Optimization in Interval Environment
16.	Financial Reporting: Changing Paradigm	St. Xavier's College (Autonomous), Kolkata	February, 03-04, 2012	National	Nil
17.	Inertia, 2012: Global Consumerism – Mapping Trajectories of Business Remodeling.	St. Xavier's College (Autonomous), Kolkata	March, 19-20, 2012	International	Nil
18.	Optimization, Computing and Business Analytics.	Operations Research Society of India	December 20 – 22, 2012	International	Presented the thesis entitled “A study on interval ranking and its applications in optimization problems.
19.	Application of Statistics & Statistical Computing.	St. Xavier's College (Autonomous), Kolkata	January 30 – 31, 2013	National	Nil
20.	Inertia, 2013: An International Marketing Summit on “The Global Entrepreneur”	St. Xavier's College (Autonomous), Kolkata	April 12 – 13, 2013	International	Nil
21.	Inclusive Growth, Business and Environment in India's Emerging Economy	St. Xavier's College (Autonomous), Kolkata	September 6 – 7, 2013	National	Nil
22.	Re-imagining India: Challenges and Opportunities in	St. Xavier's College (Autonomous), Kolkata	September 19 – 20, 2014	National	A new approach for interval linear programming problem and its application in

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	Finance, Management and Policy – making.				interval valued transportation problem.
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Research Experience

Name of the University	Topic of Research	From	To	Total Period	Type
The University of Burdwan	A study on interval ranking and its applications in optimization problems	05-04-2007	30-06-2009	2 years	Full time Research Fellow
		01-07-2009	Till Now	5 years	Part time Research Fellow
Area of interest	Nonlinear Optimization Theory, Operational Research, Theory of Interval Numbers, Uncertainty in Optimization Problems and different related fields				
Other relevant information regarding research	Completed <i>Ph.D. Course Work</i> from The University of Burdwan in the year 2011				

Teaching Experience

Name of the college	From	To	Total Period	Type of service	Subject Taught
Bankura Sammilani College, Bankura	26-03-2015	Till now	1 year 1 month	Full time (UGC approved Govt. Post)	Mathematics (Honours and Pass)
St. Xavier's College, Kolkata	01-03-2014	25-03-2015	1 year	Full time (UGC approved Govt. Post)	Mathematics and Statistics
St. Xavier's College, Kolkata	01-07-2009	28-02-2014	4 years and 8 months	Full time (College Post)	Mathematics and Statistics
Ramananda College, Bishnupur	01-08-2005	31-03-2006	8 months	Part time	Mathematics (Honours and Pass)
Ramananda College, Bishnupur	01-08-2006	30-11-2006	4 months	Part time	Mathematics (Honours and Pass)

Faculty Development Courses / Programmes attended

- Workshop attended: Workshop on SPSS held at St. Xavier's College during Dec 2010 – Jan 2011.
- Faculty Development Programme (FDP) attended: FDP for B.Com and BBA Departments organized by St. Xavier's College, Kolkata on 17th September, 2011.

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- Faculty Improvement Programme (FIP) attended: FIP for B.Com Departments organized by Dept. of Economics, St. Xavier's College, Kolkata on 6th October, 2012.

Extra Curricular Activities