

Dr. Gurcharnjit Singh

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Academic Qualifications:

M. Sc., NET (CSIR), Ph.D.

Teaching Experience:

Total : 22 years (Till 2026)

Selected Publications:

S. No.	Title of Paper	Journal Name, Year, Volume, Page Nos.	Country of publication	ISSN/ ISBN	Scopus/Web of Science/ UGC CARE	No. of Co-authors
1.	<i>Subclasses of analytic functions with fixed point and associated with Janowski function</i>	Nonlinear Studies, 30 (4) (2023), 1217-1230	USA	1359-8678	Scopus	1
2.	<i>Estimate of third and fourth Hankel determinants for certain subclasses of analytic functions</i>	Southeast Asian Bulletin of Mathematics, 47 (3) (2023), 411-424	China	0129-2021	Web of Science	2
3.	<i>Coefficient inequalities for a subclass of analytic functions associated with exponential function</i>	Journal of Applied Mathematics, Statistics and Informatics, 18 (2), (2022), 5-18	Slovak Republic	1339-0015	Web of Science, Scopus	1
4.	<i>Study of certain subclasses of p-valent close-to-convex functions</i>	Nonlinear Studies, 29 (4) (2022), 1097-1109	USA	1359-8678	Scopus	1

5.	<i>Third Hankel determinant for a subclass of close-to-star functions associated with exponential function</i>	Advanced Studies: Euro Tbilisi Mathematical Journal, 15 (4) (2022), 145-154	Georgia	2667-9930	Web of Science, Scopus	1
6.	<i>A note on generalized subclasses of multivalent quasi-convex functions</i>	Journal of Applied Mathematics, Statistics and Informatics, 18 (1) (2022), 93-107	Slovak Republic	1339-0015	Web of Science, Scopus	1
7.	<i>Hankel determinant problems for certain subclasses of Sakaguchi-type functions defined with subordination</i>	Korean Journal of Mathematics, 30 (1) (2022), 81-90	Korea	1976-8605	Web of Science	1
8.	<i>Certain subclasses of alpha-convex functions with fixed point</i>	Journal of Applied Mathematics and Informatics, 40 (1-2) (2022), 259-266	Korea	2734-1194	Web of Science, Scopus	1
9.	<i>Initial coefficients for generalized subclasses of bi-univalent functions defined with subordination</i>	Archivum Mathematicum 58 (2) (2022), 105-113	Czech Republic	0044-8753	Web of Science, Scopus	2
10.	<i>Estimate of fourth Hankel determinant for a new subclasses of multivalent functions</i>	Journal of Rajasthan Academy of Physical Sciences, 20 (3 &4) (2021), 181-194	India	0972-6306	Web of Science	2
11.	<i>A new subclass of univalent functions</i>	Ufa Mathematical Journal, 11 (1) (2019), 133-140	Russia	2304-0122	Web of Science, Scopus	2

12.	<i>Certain subclasses of bi-close-to-convex functions associated with quasi-subordination</i>	Abstract and Applied Analysis, 2019, Article ID 6947020, 6 pages	UK	1085-3375	Scopus	2
13.	<i>A subclass of bi-univalent functions defined by generalized Salagean operator related to shell-like curves connected with Fibonacci numbers</i>	International Journal of Mathematics and Mathematical Sciences, 2019, Article ID 7628083, 7 pages	UK	0161-1712	Web of Science, Scopus	2
14.	<i>Certain generalized subclasses of analytic functions</i>	Journal of Rajasthan Academy of Physical Sciences, 18 (3-4) (2019), 215-232	India	0972-6306	Web of Science	2
15.	<i>Estimate of second Hankel determinant for a subclass of p-valently alpha-convex functions</i>	Mathematical Sciences Research Journal, 17 (5) (2013), 129-135	USA	1537-5978	Scopus	1
16.	<i>A subclass of strongly close-to-convex functions associated with Janowski function</i>	Mathematical Journal of Okayama University, 66 (2024), 125-133	Japan	0030-1566	UGC-CARE List	1
17.	<i>On a new class related to the subclass of close-to-convex functions</i>	Sarajevo Journal of Mathematics, 19 (32) (1) (2023), 3-12	Bosnia	2233-1964	UGC-CARE List	1
18.	<i>Hankel determinant problems for a subclass of analytic functions associated with lemniscate of Bernoulli</i>	Journal of Fractional calculus and Applications, 14 (1) (2023), 171-181	Egypt	2090-5858	UGC-CARE List	1

19.	<i>Fekete-Szegő inequality and Zalcman functional for certain subclass of alpha-convex functions</i>	Jnanabha, 53 (1) (2023), 22-27	India	0304-9892	UGC-CARE List	1
20.	<i>Coefficient estimates for some generalized subclasses of analytic functions with respect to symmetric and conjugate points</i>	Serdica Mathematical Journal, 48 (4) (2022), 279-296	Bulgaria	1310-6600	UGC-CARE List	1
21.	On multivalent close-to-star functions	Fasciculi Mathematici, 66 (1) (2022), 91-106	Poland	0044-4413	UGC-CARE List	1
22.	<i>Certain subclasses of Sakaguchi type bi-univalent functions</i>	Ganita, 69 (2) (2019), 45-55	India	0046-5402	UGC-CARE List	2

Research Papers Presented at Conferences/Seminars/Workshops:

S. No.	Title of the paper presented	Title of Conference/ Seminar etc	Date(s) of the event	Organized by	Whether International/ National/State/ Regional/University or College Level
1.	Upper Bound of the Third Hankel Determinant.	International Conference on Advances in Mathematical Sciences.	March 19-21, 2015	GSSDGS Khalsa College, Patiala	International
2.	Drug Addiction and Road Accidents : A Relational Approach	Drug Addiction in Border Areas	Feb 19-20, 2016	GNDU College, Chungh	National
3.	Subclasses of analytic functions related to sigmoid function	Advances in Mathematical, Physical and Computer Sciences	Feb 12-13, 2018	SGGS Khalsa College, Mahilpur	International
4.	Coefficient estimates for a	International Conference on Multidisciplinary	April 06-07, 2019	Khalsa College, Amritsar	International

	subclass of bi-univalent functions of complex order defined by Sălăgean operator	Research In Science, Engineering, Management, Education and Humanities			
5.	Subclasses of analytic functions defined with generalized Sălăgean operator	Recent Developments in Mathematics, Optimization and Computational Sciences	September 06-10, 2021	Bundelkhand University, Jhansi	National

Workshops/Seminars/Short-Term/Orientation/Refresher Courses Attended:

S. No.	Name of the Course/ Summer School	Name of the Institute	Duration
1.	General Orientation Course (GOC-95)	Academic Staff College, Guru Nanak Dev University, Amritsar	13/05/2014 to 09/06/2014 (28 Days)
2.	Special Summer School-ID	Human Resource Development Centre, Guru Nanak Dev University, Amritsar	02/06/2016 to 22/06/2016 (21 Days)
3.	Workshop on 'Research Tools in Mathematics'	Mata Gujri College, Fatehgarh Sahib	19/12/2014 to 25/12/2014 (7 Days)
4.	Refresher Course in Mathematics	Teaching Learning Centre, Ramanujan College, University of Delhi, New Delhi	16/03/2021 to 30/03/2021 (15 Days)
5.	FDP on 'Data Analysis using SPSS'	Teaching Learning Centre, Ramanujan College, University of Delhi, New Delhi	25/05/2021 to 31/05/2021 (07 Days)
6.	FDP on 'Academic Research Writing'	Teaching Learning Centre, Ramanujan College, University of Delhi, New Delhi	04/06/2022 to 10/06/2022 (07 Days)
7.	Refresher Course in Mathematical Sciences	Teaching Learning Centre, Ramanujan College, University of Delhi, New Delhi	28/01/2023 to 11/02/2023 (15 Days)