Profile Page

Name	:	Dr Jaspal Singh Aujla
Designation	:	Professor
Department	:	Mathematics
Qualification	:	PhD. Mathematics (Panjab University Chandigarh) MSc. Mathematics (Panjab University Chandigarh) BA (Panjab University Chandigarh) Post Doctorate Mathematics (University of Lisbon, Portugal)
Address	:	A-7, Br B R Ambedkar, National Institute of Technology, Jalandhar 144011, Punjab, India
Email	:	aujlajs@nitj.ac.in
Phone	:	09463364744

Research Interests :

Matrix Analysis

Other Profile Links :

Google Scholar Link :

Jaspal Singh Aujla Click Here

Journal Publications :

Year	Journal	Publication
2022	Operators and Matrices	Manisha Devi, Jaspal Singh Aujla, A norm inequality for some special functions, (2022)
2020	Linear and Multilinear Algebra	Isha Garg, Jaspal Singh Aujla, Inertia of non-integer Hadamard powers of a non-negative matrix, 68 (2), 410-416 (2020).
2020	Advances in Operator Theory	Rajinder Pal, Mandeep Singh, Jaspal Singh Aujla, Some norm inequalities for operators, 5, 627-639 (2020)
2018	Linear and Multilinear Algebra	Isha Garg, Jaspal Singh Aujla, Inertia of some special matrices, 66 (3), 602-607 (2018).
2018	Linear and Multilinear Algebra	Isha Garg, Jaspal Singh Aujla, Some singular values inequalities, 66, 776-783 (2018).
2016	Linear and Multilinear Algebra	Rajinder Pal, M S Moslehian, Mandeep Singh, Jaspal Singh Aujla, A new class of operator monotone function via operator means, 64, 2463-2473 (2016).
2014	Linear and Multilinear Algebra	Rajinder Pal, Mandeep Singh, Jaspal Singh Aujla, Generalized operator version of Bernoulli's inequality, 62, 267-273 (2014).
2012	Linear Algebra and its Applications	Jagjit Singh Matharu, Jaspal Singh Aujla, Some inequalities for unitarily invariant norms, 436, 1623-1631 (2012).

2012	Linear Algebra and its Applications	M S Moslehian, Jagjit Singh Matharu, Jaspal Singh Aujla, Non-commutative Callebaut inequality, 436, 3347-3357 (2012).
2012	Linear and Multilinear Algebra	Koenraad M R Audenaert, Jaspal Singh Aujla, On norm sub-additivity and super-additivity inequalities for concave and convex functions, 60, 1369-1389 (2012).
2012	Linear Algebra and its Applications	Rupinderjit Kaur, Mandeep Singh, M S Moslehian, Jaspal Singh Aujla, A double inequality related to operator means and positive linear maps, 437, 1016-1024 (2012).
2012	Mathematical Sciences	H Sharma, Jaspal Singh Aujla, A certain family of mixed summation-integral type Lupas-Phillips-Bernstein operators, 6, (2012).
2011	Linear Algebra and its Applications	Rupinderjit Kaur, Mandeep Singh, Jaspal Singh Aujla, Generalized matrix version of reverse Holder inequality, 434, 636-640 (2011).
2011	Journal of Mathematical Physics	Jaspal Singh Aujla, A simple proof of Lieb concavity theorem, 52 (2011).
2011	Mathematical Inequalities and Applications	Jagjit Singh Matharu, Jaspal Singh Aujla, Some majorization inequalities for convex functions of several variables, 14, 947-956 (2011).
2011	Linear Algebra and its Applications	Jagjit Singh Matharu, Jaspal Singh Aujla, M S Moslehian, Eigenvalue extensions of Bohr's inequality, 435, 270-276 (2011).
2011	Bulletin of Mathematical Analysis and Applications	Jaspal Singh Aujla, S Dragomir, M Khosravi, M S Moslehian, Refinments of Choi-Davis-Jensen's inequality, 3, 127-133 (2011).
2010	Mathematical Inequalities and Applications	Jagjit Singh Matharu, Jaspal Singh Aujla, Some inequalities for Hadamard product and operator means, 13, 643-654 (2010).
2009	Journal of Inequalities in Pure and Applied Mathemtics	Jagjit Singh Matharu, Jaspal Singh Aujla, Hadamard product version of Kantorovich and Chebyshev inequalities, 10, 6 pages, (2009).
2007	Linear Algebra and its Applications	Jaspal Singh Aujla, J C Bourin, Eigenvalues inequalities for convex and log convex functions, 424, 25-35 (2007).
2003	Linear Algebra and its Applications	Jaspal Singh Aujla, F C Silva, Weak majorization inequalities and convex functions, 369, 217-233 (2003).
2003	Mathematical Inequalities and Applications	Mandeep Singh, Jaspal Singh Aujla, A note on Weyl's interlacing inequality, 6, 375-378 (2003).
2002	Linear Algebra and its Applications	Jaspal Singh Aujla, Some norm inequalities for completely monotone functions II, 359, 59-65 (2002).
2001	Linear and Multilinear Algebra	Jaspal Singh Aujla, Mandeep Singh, H L Vasudeva, Inequalities for Hadamard product and unitarily invariant norms, 48, 247-262 (2001).
2001	Mathematical Inequalities and Applications	Jaspal Singh Aujla, Perturbation bounds for certain matrix functions, 4, 609-617 (2001).
2001	Rend. Matematico	Jaspal Singh Aujla, Mandeep Singh, Some inequalities for operator means and shorted operators, 59, 189-198 (2001).
2000	Linear Algebra and its Applications	Jaspal Singh Aujla, On an operator inequality, 310, 43-47 (2000).
2000	SIAM Journal of Matrix Analysis and Applications	Jaspal Singh Aujla, Some norm inequalities for completely monotone functions, 22, 569-573 (2000).
2000	Publikacije Elektrotec Matematika	Jaspal Singh Aujla, Mandeep Singh, H L Vasudeva, Log convex matrix functions, 11, 19-32 (2000).
1999	Linear Algebra and its Applications	Jaspal Singh Aujla, A fixed point theorem and a norm inequality for operator means, 290, 109-118 (1999).
1999	Mathematical Inequalities and Applications	Jaspal Singh Aujla, Mandeep Singh, Some norm inequalities involving functions of two variables, 2, 561-568 (1999).
1999	Advancing in Modeling and Analysis	Sheo Kumar, Jaspal Singh Aujla, M C Wadhawan, Convergence of methods for nonlinear second kind voltera integral equations with singular or periodic kernels, 36, 59-67 (1999).
1997	Linear Algebra and its Applications	Jaspal Singh Aujla, Some operator equalities involving connections and means, 259, 223-228 (1997).

1996	Linear Algebra and its Applications	Jaspal Singh Aujla, H L Vasudeva, Some convex and monotone matrix functions, 248, 47-60 (1996).
1995	Annals Polonici Mathematici	Jaspal Singh Aujla, H L Vasudeva, Convex and monotone operator functions, LXII, 1-11 (1995).
1995	Mathematica Japonica	Jaspal Singh Aujla, H L Vasudeva, Operator inequalities related to operator means, 41, 383-388 (1995).
1995	Mathematica Japonica	Jaspal Singh Aujla, H L Vasudeva, Inequalities involving Hadamard product and operator means, 42, 265-272 (1995).
1993	Linear Algebra and its Applications	Jaspal Singh Aujla, Matrix convexity of functions of two variables, 194, 149-160 (1993).

Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
Inviting person	Research	Visit of Dr J C Bourin to the institute under Indo-French Institute of Mathematics	Government of India and French Government	21-09-2006	30-09-2006	150000	Completed	Dr J C Bourin

Events Organized :

Category	Type	Title	Venue	From	To	Designation
Short Term Course	National	Awareness and Motivational Course for Students from Rural Schools	Dr B R Amberkar, National Institute of Technology, Jalandhar, Punjab, INDIA	27-10-2008	27-10-2008	Professor
Conference	National	25-th Annual Conference of the Ramanujan Mathematical Society	Dr B R Amberkar, National Institute of Technology, Jalandhar, Punjab, INDIA	03-05-2010	05-05-2010	Professor
Conference	International	Conference on Matrix and Functional Analysis (In honour of Professor Rajendra Bhatia on his 65-th birthday)	Dr B R Amberkar, National Institute of Technology, Jalandhar, Punjab, INDIA	30-11-2017	02-12-2017	Professor
Competitive Examination	National	Conducted Regional Math. Olympiad on behalf of the National Board of Mathematics between 1997-2001 for the benefit of local and nearby districts students	Dr B R Ambedkar, National Institute of Technology Jalandhar, Punjab, INDIA	1997	2001	Local Coordinator

Professional Affiliations :

Designation	Organization
Life Member	Indian Mathematical Society

Life Member	Ramanujan Mathematical Society
Life Member	Punjab Academy of Sciences
Member	American Mathematical Society
Senior Associate (2011-2017)	Abdul Salam International Centre for Theoretical Physics, Trieste, ITALY

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Anchal Aggarwal	Operator and Associated Norm Inequalities	Completed	2021	Jaspal Singh Aujla
Rajinder Pal	On Matrix Inequalities	Completed	2020	Jaspal Singh Aujla
Isha Garg	Inequalities and Positivity Properties of Some Special Matrices	Completed	2019	Not Applicable
Honey Sharma	Approximation Properties of Positive Linear Operators Using q-Calculus	Completed	2015	Not Applicable
Rupinderjit Kaur	Inequalities Involving Matrix Functions	Completed	2015	Jaspal Singh Aujla
Jagjit Singh	Matrix Inequalities	Completed	2011	Not Applicable
Manisha Devi	Some Norm Inequalities	On going		Not Applicable

Admin. Responsiblities :

Position Held	Organization	From	To
Head of Department	Dr B R Ambedkar, National Institute of Technology, Jalandhar, Punjab, INDIA	01-09-2007	31-08-2009
Dean Students Welfare	Dr B R Ambedkar, National Institute of Technology, Jalandhar, Punjab India	01-02-2015	24-01-2017
Professor Incharge Security	Dr B R Ambedkar, National Institute of Technology, Jalandhar, Punjab India	30-11-2006	13-03-2007
Appellate Authority	Dr B R Ambedkar, National Institute of Technology, Jalandhar, Punjab India	24-01-2017	Till Date
Professor Incharge Cooperative Store	Dr B R Ambedkar, National Institute of Technology, Jalandhar, Punjab India	1995	2001
Member Senate	Dr B R Ambedkar, National Institute of Technology, Jalandhar, Punjab India	08-08-2004	Till Date

Award and Honours :

Title	Activity	Given by	Year
Senior Associate	Research	Abdul Salam International Centre for Theoretical Physics, Trieste, ITALY	2011-2017
Merit Scholarship	Education	Government of Punjab	1978-1987