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Department of Applied Mathematics
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List of Publications :

1. **V.K.Singh**, Simultaneous best L_ϕ approximation by non-decreasing function on the interval $(0,1)$, *Approximation Theory and its Application, Vol,12, No. 3, 1996 (131-142)*.
2. **V.K. Singh and R.N. Mukherjee**, Strongly unique best co-approximation in 2 normed spaces, *Math, Japonica 35 No. 1 (1997) 208-217*.
3. **R.N. Mukherjee and V.K. Singh**, Best approximation in Ortiz type space with peak – norm structure, *Indian J. of Pure Applied Mathematics, 30 (3) 1999 (348-360)*
4. **V.K. Singh and R.N. Mukherjee**, Simultaneous Best Co-approximation, in a peak norm structure *Inter . Math J., 5(3) 2005, 185-196*.
5. **Jyoti sinha and V.K. Singh**, Rate of convergence on mixed summation integral type operators, *General mathematic Vol. 14, No. 4 (2006) 29-36*
6. **V.K. Singh & Nimisha**, An algorithm for labeling network flow problems, *International Journal of applied mathematics Vol. 3, No. 2(2007) 97-107*.
7. **V.K. Singh & S.K. Sengar**, Iteration process with errors for local strongly H -accretive type mapping ,*Fixed Point Theory,Vol.9(1),2008;(351-362)*.
8. **V.K. Singh, S. Kumar and A.K. Singh** (α,β) 2- norm orthogonality and characterization of 2 inner product spaces, *Journal of Applied Functional Analysis,Vol.3(4),2008;(485-495)*.
9. **Vinai K. Singh and Santosh Kumar**, Mapping ϕ_p in Normed Linear Spaces & Characterization of Orthogonality Problem of Best Approximations in 2-Norm, *General Mathematics Vol. 17, No. 2 (2009), 73—85*.
10. **Vinai K.Singh, Indu Kala Tripathi & Nimisha**, Applications of Maximal Network Flow Problems in Transportation and Assignment Problems.*J. Math. Res.Vol. 2 No. 1 Feb. 2010*.
11. **V.Gupta,T.Kim,V.K.Singh and B.Lee**,Rate of Simutaneous for Baskakov-Szasz Operators,*Proceeding of the Jangeon Mathematical Society, 14(2011), No.3, pp.267-275*.

12. *Vinai K.Singh & Indukala Tripathi, On Certain Application of First Order Differential Subordination to Analytic Functions. International Electronic Journal of Pure and Applied Mathematics Volume 6 No. 2 2013, 77-82 (2013)*
13. *Vinai K.Singh, Ajit Kumar Singh Yadav, Ajay Kumar & Anand Tyagi, Semiconductor- Optical-Amplifier Mach-Zehnder Interferometer Based Optical Networks, TELKOMNIKA (Indonesian Journal of Electrical Engineering Indexed by Ei Compendex (ELSEVIER) 2013), Vol.11, No.1, January 2013, pp. 525~535 (2013)*
14. *Vinai K.Singh, Effect Of Injection Pressure On The Performance & Emissions Of Nerium Biodiesel Operated Diesel Engine, Asian Journal Of Applied Science & Engineering Vol.1 No.2, pp.56-64,2013.*
15. *Vinai K. Singh, Ajay Kumar, Ajit K. S. Yadav ,Approximations of Fuzzy Systems, Indonesian Journal of Electrical Engineering and Informatics (IJEI), Indexed by Ei Compendex (ELSEVIER) 2013, Vol.1, No.1, March 2013, pp. 14~20.*
16. *Vinai K. Singh, Speed up vector medium filtering by quasi-Euclidian norm,(Accepted) Indonesian Journal of Electrical Engineering Indexed by Ei Compendex (ELSEVIER) 2014.*
17. *Vinai K. Singh, A.K.Singh, A Collocation Method for Integral Equations in Terms of Generalized Bernstein Polynomials, International Conference M3HPCST-2015 Springer-Verlog Proceedings December 2016.*
18. *Vijay Gupta, Vinai K.Singh, Convergence Estimates in Simultaneous Approximation for Certain Generalized Baskakov Operators, International Conference M3HPCST-2015 Springer-Verlog Proceedings December2016.*

National & International Conference/workshop/Symposia organize:

1. *One day Lecture workshop on “Mathematical Modeling & Bioinformatics” was organize on Feb.21,2015 in the collaboration with National Network for Mathematical & Computational Biology (NNMCB Delhi Node) sponsored by SERB Govt. of India.*
2. *Two days Science Academies lecture workshop on “Applications of Basic Sciences in Engineering & Technology” was organized on March 13-14, 2015 Sponsored by Indian Academy of Science, Bangalore.*
3. *International Conference on “Modern Mathematical Methods and High Performance Computing in Science & Technology”(M3HPCST-2015) was organized on December 27-29,2015,sponsored by Science Engineering Research Board, Department of Science & Technology, Govt. of India.*

Published Books/Proceedings:

- (a) *Modern Mathematical Methods and High Performance Computing in Science and Technology*; ISBN 978-981-10-1453-6 & ISBN 978-981-10-1453-3 (ebook) by Springer-Verlog Germany in 2016..
- (b) *Advance Mathematics*; First edition 2007.
- (c) *Biomathematics*; First edition 2006.
- (d) *Remedial Mathematics*; First edition 2006.

National & International Conference / Symposia:

1. 64th Annual Conference and Symposia on Traditions of Vedic Mathematics and Application and Fixed Point Theory in Nonlinear Analysis & Applications (December, 19-22, 1998) at *Gurukul Kagari University Haridwar*
2. National Conference of Mathematics, *Khajuraho ATA 99 (February 24-25 1999)*.
3. National Seminar on Analysis, Ujjain NSA-99, (March 13-15, 1999)
4. International Conference on Geometry. *Analysis and Application WMY-2000. (August 21-24-2000) organized by BHU Varanasi - 221005.*
5. International Conference on Interdisciplinary Mathematics *SCRA 2004 December 27-29, 2004, organized by University of Lucknow.*

Personal Details:

Name : *Dr. Vinai K. Singh*
Present Position : *Professor*
Date of Birth : *July 12, 1970*
Nationality : *Indian*
Fathers Name : *Late Sh. J. Singh*

Academic Qualification:

1. Awarded Ph. D on the topic of “*Some Investigations in the area of best approximations, optimization techniques and related application*” in *2001*.
2. M.Sc. in 1994

Scholarship:

Recipient of University Research Fellowship (BHU) from Sept. 1995 to July 1998.

Teaching & Research Experiences:

1. Presently working as a Professor in the Department of Applied Science & Humanities (Mathematics) with administrative responsibilities of Dean Academic at Inderprastha Engineering Colleges since August 01, 2016.
2. Served as a Professor in the Department of Applied Mathematics with administrative responsibilities of Dy. Director / Dean Academic at Raj Kumar Goel group of Institutions from July 2010 to July 31, 2016.
3. Served as a Professor in the Department of Applied Mathematics as well as Director Academic at Aryabhata College of Engineering & Technology Baghapat, from June, 2009 to July, 2010.
4. Served as a Professor in the Department of Applied Mathematics and Dean Academic at R.D. Engineering College Ghaziabad from feb.2007 to June 2009.

5. Served as an Associate Professor in Hi-Tech Institute of Engineering & Technology Ghaziabad (U.P.) during the tenure from Sept. –2006 to Feb 2007
6. Served as an Assistant Professor in Inderprastha Engineering College Sahibabad affiliated to U.P. Tech. University Lucknow during the tenure from July 2001 to Sept. 2006
7. Served as a lecturer in KNIPSS Sultanpur affiliated to Dr. R.M.L. University, Faizabad during the tenure from July 1998 July 2001.

Academic Activities

1. *Member of the Editorial team in National & International Journals like IJAPM, IJOART, CSCANADA, JSM, JCIBR, JMR & JMCSR.*
2. *Reviewer in National & International Journals.*
3. Worked as a Dy. Head Examiner in U.P. Tech. University Semester Examination June 2003, Jan. 2004, June 2004 Jan 2005, Jun 2005, Jan 2006, June 2006 and Jan 2007.
4. Member of Various Govt./University affiliation committees affiliated to U.P. Technical University Lucknow.
5. University authorized as Program Officer of N.S.S. scheme in the tenure from 2004 to 2006.

Research Experience:

Sincerely invaluable in research during July 1995 to July 1998 in the Department of Applied Mathematics Institute of Technology, Banaras Hindu University, Varanasi during this period I have been participated in various National and International Conferences / symposia.

Fields of Interest:

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|------------------------------|-------------------------|
| 1. Optimization | 6. Approximation Theory |
| 2. Functional Analysis | 7. Operator Theory |
| 3. Computational Mathematics | 8. Graph Theory |
| 4. Differential Equations | 9. Numerical Analysis |
| 5. Computational Biology | 10 Operation Research |

Reference :

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Prof. Vijay Gupta

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