

CURRICULUM VITAE

Dr. R.P. Singh

M.A., Mathematics, IV Position in Meerut University, 1968
Topped, Meerut College Meerut, 1968.

Motto's

Work is Worship

कर्मण्येवाधिकारस्ते मा फलेषु कदाचन

God help those who help themselves
Where there is a will there is a way

Contribution towards Nation & Institute

एलआर के प्रोफेसर ने बढ़ाया देश का गौरव

राजू मिश्रा, साहिबवादा

लाजपत राय पोस्ट ग्रेजुएट कालेज में गणित विभाग के अध्यक्ष डॉ.आरपी सिंह ने पेरिस में आईपीएमयू -2006 इंटरनेशनल कांफ्रेंस में शोध पत्र प्रस्तुत कर जिले के साथ-साथ देश का गौरव बढ़ाया है। कांफ्रेंस में विश्व के ढाई सौ देशों के प्रतिनिधियों ने हिस्सा लिया, इनमें भारत की तरफ से शोधपत्र प्रस्तुत करने वाले डॉ.आरपी सिंह एकमात्र प्रोफेसर थे।

श्री सिंह ने बताया कि यूनिवर्सिटी ऑफ पेयरी एंड मेरीक्यूरी पेरिस में दो से सात जुलाई तक इंटरनेशनल कांफ्रेंस हुई। उन्होंने

- ▶ पेरिस में इंटरनेशनल कांफ्रेंस में प्रस्तुत किया शोधपत्र
- ▶ पुर्तगाल में कांफ्रेंस में जाने का आमंत्रण मिला
- ▶ ढाई सौ देशों के प्रतिनिधियों में भारत से एकमात्र थे

कहा कि आम लोगों का मानना है कि गणित सिर्फ जोड़-घटाव व गुणा-भाग का ही विषय है। जबकि वर्तमान में हर क्षेत्र में इसका उपयोग बढ़ रहा है। उनका कहना है कि इंटरनेट गणित की देन है, कंप्यूटर डिजाइन, भाषा विज्ञान व अंतरिक्ष गणितीय ज्ञान के बिना संभव ही नहीं है। कांफ्रेंस में अपने शोध पत्र में उन्होंने सूचना सिद्धांत के द्वारा सूचनाओं को कैसे नापा जा सकता है और उनके क्या मापक होंगे, विषय पर विस्तार से जानकारी दी। हालांकि, वह पेरिस में इंटरनेशनल कांफ्रेंस आईपीएमयू (इन्फॉर्मेशन प्रोसेसिंग एंड मैनेजमेंट ऑफ अनसर्टेड इन नॉलज वेसड



एलआर कालेज के प्रोफेसर डॉ.आर.पी.सिंह। जागरण

सिस्टम)-2006 में जाने के लिए केंद्रीय वाणिज्य व उद्योग मंत्री कमलनाथ के सहयोग को सराहना करना नहीं भूलते हैं। केंद्रीय मंत्री व कालेज प्रबंधन ने इंटरनेशनल कांफ्रेंस में जाने के लिए उनको प्रोत्साहन व आर्थिक सहयोग दिया। इस कांफ्रेंस के आधार पर ही उनको एक सितंबर से चार सितंबर तक पुर्तगाल में होने वाली एक अन्य इंटरनेशनल कांफ्रेंस में जाने का आमंत्रण मिला है। कालेज प्रबंधन व अन्य प्रोफेसर डॉ.आरपी सिंह की इस सफलता से गौरवान्वित महसूस कर रहे हैं।

ISITA-AWARD 2007

Prof. (Dr.) D.K. Sinha, Former Vice Chancellor Vishwabharti Calcutta, Prof. (Dr.) P.L. Maggu, Executive Director, GSBA, & Prof. (Dr.) R.K. Tuteja, President, ISITA, Sh. M.L. Gupta, Chairman, N.C. College of Engg. ISIRANA, Panipat, Presenting ISITA-AWARD, 2007 to (Dr.) R.P. Singh for his excellent contribution to Information Theory 8th Dec. 2007 at GSBA Greater Noida.



**9TH NATIONAL CONFERENCE OF ISITA ON 8TH -9TH
DECEMBER 2007 AT GSBA, GREATER NOIDA
ISITA AWARD – 2007**

Dr. R.P. Singh

(Reader, Deptt. of Matchmatics, Lajpat Rai College, Sahibabad, Gzb.)



This citation is in reorganization for **ISITA award – 2007** for his excellent academic and research achievements. Dr. R P Singh born on 5th July 1945 at Kandela, Distt Muzaffar Nagar (U.P.) is a scholar to be honoured for his research contribution through National and International publication of articles in the Journals of repute. **He has more than 50 research papers published** to his credit which have been duly recognized by other scholars on merit giving certain references of his reported research work appearing in other Journals. He has also supervised about **15 Students for the award of Ph. D Degree**. This is credit to him that he is still continuing with the research in Measures of Information, Functional Equations, Questionnaire Theory and Mixtured Distribution, Coding Theory, Fuzzy Set Theory etc. In this connection he has also attended one International Conference in Paris and presented one research paper in the new field i.e. Fuzzy Set Theory. He is one of the pillars of forming **ISITA and helping Prof. J.N. Kapur to establish this Society**. His contribution in the inter disciplinary areas of Mathematics is a benchmark for others.

On account of this non-matching contribution and his best services to promote ISITA, this **ISITA Award – 2007** along with citation is being presented to him.

We look forward his greater contribution in future and for his excellent services to the cause of **ISITA**.



Chairman
Conference

Prof (Dr.) P L MAGGU
EXECUTIVE DIRECTOR, GSBA
& SR. VICE-PRESIDENT – ISITA

Prof (Dr.) R K Tuteja
PRESIDENT - ISITA

(a) PROMOTION OF INFORMATION THEORY AND ITS APPLICATIONS

Research Areas Covered	:	Guiding Research in Information theory. <ul style="list-style-type: none">• Measures of Information & Their Characterizations.• Functional Equations.• Questionnaire theory.• Statistical Decomposition• Measure of Preference• Weighted Theoretical Distributions• Mixtured Distributions• Multivariate Analysis.• Fuzzy Information & Divergence Measure• Application of Statistical Techniques in Bio-Medical Sciences.• Reliability Theory• Applications to share Market.
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(b) PH.D'S AWARDED

1. Dr. J.D. Bhardwaj (Feb. 1991)	:	A Study of Generalized Information Measures with Preference.
2. Dr. Anant Ram (Oct. 1998)	:	A Study of Non-Additive Generalized Measures of "useful" information and J-Divergence.
3. Dr. Kanwarjeet Singh (1999)	:	"On Solution Techniques for applied problems in Queuing and scheduling theory".
4. Dr. Balwant Singh Siwach (2001)	:	"Reliability Modeling".
5. Dr. D.N. Sharma (2001)	:	"A Study of Applications of Operations Research approaches in Decision Making.
6. Dr. Rajeev Kumar (Oct. 2002)	:	A Study of Generalized Information Measures and their Inequalities.
7. Dr. Satish Kumar (Dec. 2002)	:	A Study of Sub-Additive Information Measures and their applications.
8. Dr. B.B. Tyagi (Jan. 2003)	:	A Study of Cancer Incidence in Urban Agglomeration, Application of Regression Analysis, Test of Hypothesis and other Statistical Techniques.
9. Dr. Puneet Kumar (Oct. 2003)	:	"A Study of Measures of Weighted Additive charge for Heterogeneous Questionnaires".
10. Dr. Jagat Veer Singh (Dec. 2003)	:	A Study of Weighted Monotonic Entropy Measures and their applications.
11. Dr. K.N. Arora (Jan. 2004)	:	A Study of Generalized J-Divergence Measures & their Applications.

12. Tripti Sharma (June 2004) : Multi Objective Decision making through operations research.
13. Anil Kumar (2006) : Study of Weighted Heterogeneous Questionnaires
14. Mr. Vinod Kumar (Jan. 2008) : Applications of Shannon- Gibbs type and Holders in information.
15. Vijay Prakash Tomar - 2009 : Generalized Parameters then Fuzzy measures of Information.

Ph. D. SUBMITTED

16. Mr. Manoj Kumar Verma 19th April 2009 : Some coding theorems inequalities Information Theory and their applications.
17. Ashok Kumar December 2010 : Parametric Fuzzy Information Measures
- Ready for Submission :**
18. Pratap Singh 2011 : Convexity in Measure of Information.
- 19 . Sandeep Kumar 2011 : Inequalities in Information Theory.
20. Ram Kumar Pundir 2011 : On monotonicity of information improvement and divergence.

(d) LIST OF PUBLICATIONS :

- 1 1983 A Generalization of Entropy Equation: Non- Homogeneous, entropies : Results presented at conference at July 19-20 (1982) unpublished, Result, presented at National Conference Mathematical Modeling on Mehta Research Institute of Physics Allahabad.
- 2 1983 An Application of Information Equation : Presented at the 70th conference of Indian Science Congress. Tirupati Jan 3-8 (1983)
- 3 1983 On Generalized Information Measures with Preference, JCISS (Delhi, India) Vol. 8 No. 1 pp 61-72 (1983)
- 4 1983 Non-Additive Information Measures with Preference. Journal of Combinatorics Information and System Services Vol. 8 No. 2 pp 142-149, (1983), Delhi, India.
- 5 1984 On Information Measures of Type (α, β) with Preference. Caribbean Journal of Mathematics Vol. 2 No. 1-2 (1984) (West Indies)
- 6 1984 On Characterization of Directed-Divergence of type β through Information Equation. Kybernetika. Vol. 20 (1984) No. pp 159-169. (Czechoslovakia)
- 7 1985 A Generalization of Entropy Equation : Homogeneous Entropies : Kybernetika Vol. 21 (1985) No. 2 pp. 157-163, Czechoslovakia)
- 8 1987 Additive Information Measures with Preference : Published in

Information Sciences : Vol. 42 (1987) pp 110-119 (USA)

- 9 1990 On Axiomatic Characterization of Generalized Qualitative Measures of Variation of Information through Generating function.
Tamakang Journal of Mathematics. Vol. 21 No. 4 (365-376) 1990, Taiwan China
- 10 1990 Weighted Information Improvement through Generating Function and its Characterization.
Information Sciences (USA). Vol. 52 (1990) pp 82-92
- 11 1990 On Parametric Weighted Information Improvement.
Information Sciences (USA) 1990 : Vol. 51 pp. 101-111
- 12 1990 On Weighted J-Divergence through Generating Functions
Kybernetika (Czechoslovakia), Vol. 26 Nos. 2,112-120, (1990)
- 13 1991 On Weighted Information and its application
Accepted for presentation in IPMU 1991 (Spain) - Published in the proceedings of IMPU.
- 14 1992 On Weighted Information Improvement due to 2 and subsequent finite revisions. : Information Science (USA) Vol. 54 (1992) pp. 16-25
- 15 1991 On a Generalized Weighted Information Improvement.
International Journal of Management and Systems. New Delhi Vol. 7 No. 2 (1991). Pp 165-171
- 16 1992 On Qualitative Measure of Variation of Information of type β .
Information Sciences (USA) Vol. 53 (1992). pp 103-110
- 17 1993 Mean Value Study of parametric Relative Weighted Information through Generating Function, unpublished (1993)
- 18 1993 On Unified (r.s.) weighted information measure : Soochow Journal of Mathematics Vol.19 No.1 pp11-30 Jan.(1993), China
- 19 2000 On Some Inequalities in Information Theory : Journal of Decision and Mathematika Sciences Vol. 4, (1-3) pp 41-48 (2000), India
- 20 1994 On Weighted J Divergence and its applications.
Accepted for Poster Communication in International Conference on Information Processing and Management uncertainty and Knowledge Based Systems (1994) France.
- 21 1994 On Weighted Poisson Mixture of Weighted Distribution.
International Journal of Management and System Sciences Delhi (1994), India Vol. 10 pp 19-29
- 22 1995 On Weighted Poisson Mixture of Distribution.
Journal of Information and optimization Sciences, Delhi – Vol. 17 No.2 India, 151-159. (1995)
- 23 1995 On Weighted Truncated, Untruncated, Compound and stuttering Poisson Distribution.
International Journal of Management and System Vol. 11 No. 2 (1995) pp 41-52 India
- 24 2000 Weighted J Divergence of order α and type β and its applications, J Indian Soc. Stat Opens Res. Vol. XXI 1-4 (Dec. 2000) pp 31-38.
- 25 2001 Is Incidence of Cancer on the decline in Delhi capital of India :?
Indian Journal of Cancer, Vol. 38 pp 8-16 March 2001, India.

- 26 2001 Two Unit warm stand by system with accidents and various Type of Repair Published in Journal of Decisions and Matematika Sciences, N.Delhi, Vol. No. pp. 2001
- 27 2002 Weighted Entropy : An Optimal Measure Proceedings of conference on information processing and Management of uncertainty in knowledge based systems, IPMU Anncey, France (2002). pp 1293-1300
- 28 2003 Application of Holder's Inequality in Information Theory Information Sciences USA, Vol.152 pp. (145-154), 2003
- 29 2005 On parametric R- Norm Information Measure Accepted for presentation in IIIrd conference of ISITA, New Delhi held at GNDU, Amritsar 12-14 Feb. 1999 accepted for publication in pure and applied Matematika, Sciences (2005) Vol. LX No. 3-4, March 2005
- 30 2006 Axiomatic Characterization of Non Additive weighted Average charge for Heterogenous Questionnaires : Published in Proceedings of 8th National Conference of Indian Society of Information Theory and Applications (ISITA), India - (2006) pp. 310-319, RGN Publications.
- 31 2006 On Information Improvement through Generaliing Fuctions and Jensen's Inequality; Published in Pure and Applied Matematika Sciences (India), Vol L X IV, No. 1-2, Sept. 2006 pp. 75-82.
- 32 2006 Generalized Jenseris Inequality and its Application to data Reduction : Published in Journal of Mathematics Sciences Reflections dues Era (India) Vol. 2., August 2007, pp. 239-252.
- 33 2007 Information inequalities Among Weighted symmetric Divergince measures : Presented at the National Conferences of Indian Society of Information Theory and Application (ISITA) 8-9 December 2007, GSBA Greater Noida U.P. India.
- 34 2007 Parametric R- Norms Information measures : Published in Pure and applied Matematika Sciences, Vol. LXV, No. 1-2 p.p. 41-61 March 2007.
- 35 2008 Some Coding theorems for weighted RGN Publication at Delhi entropy of order α , Published in Pure and Applied Matematika Sciences, Sept. 2008, VOI L X VIII No. 1-2, pp. 21-31.
- 36 2008 On Fuzzy divergence measures and their inequalities : Published in Proceeding of 10th National Conference of Indian Society of Information Theory and Applications (ISITA) India pp. 31-43. RGN Publications Delhi, India.
- 37 2009 Refinement of Inequalities among Fuzzy Means Difference, Published in Advances in Fuzzy Mathematics, Vol. 4 No. 2 (2009) p.p. 113.127 Research India Publications, N. Delhi (India)
- 38 2010 On Weighted Symmetric Fuzzy Divergence measures and their Inequationcs : Published in Pure and applied Matematika Sciences Vol. L XX II, Vo. 2, Sept. 2010 pp. 85-101.
- 39 2010 On Non Symmetric Weighted Divergence Measures of Information : Published in Advances in Information Theory and operations Research, Interdisciplinary Trends, Germany p.p. 23-45. (2010)
- 40 2010 Reinement of Inequilities among fuzzy divergence measures : published in Advances applied Research Vol. 2 No. 2 (2010) pp. 142-156, India.
- 41 2011 Inequities Among Weighted Fuzzy Divergence of Type s : Published in Journal of Mathematical Sciences : Reflections Des Era. Vol. No..... pp.....

42. 2011 Bounds on Non Symmetric Weighted is AG Divergence measures and its inequalities Among its particular Divergences. To appear in Aryabhat Journal of Mathematics and Information - 2011.
43. On Generalized Jensen's Inequality Journal Mathematical Sciences, Des Era Vol..... Vol.....
44. On information improvement through generating function and Jensen's Inequality. pure and applied mathematic Sciences.,
45. Reliability and Profit Evaluation of a two Unit Stand by System with Instructions and Accidents : Published in Pure and Applied Mathematika Sciences : Vol. L(i) No. 1-2, March 2001.
46. On concavity of Divergence - Difference of Measures of Fuzzy Information : Communicated .
47. Application of Information Theoretic Divergence Measures - Forecasting Profit Maximization in share Market : Communicated.
48. Decision Making through Information Theoretic Divergence Measures for Ranking Problems : A case study in world Universities Ranking : communicated.

CONFERENCES ATTENDED

- 1979 First National Conference of Forum for Interdisciplinary Mathematics (FIM) 1979 at Rajasthan University, Jaipur.
- 1982 Indian Science Congress Association's Coinference at Tirupati. 1982.
- 1984 National Conference on Mathematical Modelling at Mehta Research Institute (MRI) Allahabad 1984.
- 1984 Indian Science Congress Association's Conferences at Ranchi - Birla Institute of Technology, 1984.
- 1985 National Conference of Indian Mathematical Society 1985 Allahabad University, Allahabad.
- 1986 Indian Science Congress Association's Conference at Gwalior University, Gwalior (MP) 1986
- 1990 Indian Science Congress Association's Conference at Delhi University, Delhi 1989/90.
- 1990 National conferences on Spectroscopy and Etrophy at (LR PG) College Sahibabad, Ghaziabad. 1990.
- 1993 Indian Science Congress Association's Conference at Rajasthan University, Jaipur 1993.
- 1997 First National Conference of Indian Society of Information theory and Applications (ISITA) at M.D. University Rohtak 1997.
- 1998 Second National Conference of Indian Society of Information Theory and Applications (ISITA) 1998 at CCS HAU HISAR 1998.
- 2005 Sixth National Conference of Indian Society of Information Theory and Applications (ISITA) at MIMIT, Malout Punjab 2005.
- 2005 First National Conference on Intelligent System and Networking at Haryana Engg. Collee Lagdlary, Haryana 2005
- 2006 Information Processing and Management of Uncertainly (IPMU) Knowledge Based Syste (2006) PARIS, FRANCE.
- 2006 Asian Conference of Intelligent System and Networking, Haryana College of Engg. Jagadhary 2006.
- 2007 Seventh National Conference of Indian Society of Information Theory and Applications (ISITA) at NC College of Engg. ISRANA, Panipat Haryana.
- 2007 International Conference of International Society of Physical Sciences, held at CCS University, Meerut 2007.
- 2008 Eight's National conference of Indian Society of Information Theory and Applications (ISITA) 2008 at Graduate School of Business and Administration (GSBA) Greater Noida 2008.
- 2009 Ninth National Conference of Indian Society of Information Theory and Applications (ISITA) at NC College of Engg. ISRANA, Panipat Haryana, 2009.

- 2010 10th National Conference of Indian Society of Information Theory and Applications (ISITA) at Guru Govind Singh Khalsa College Sadhanli, Taran- Taran, Amritsar 2010, 24-26 Oct. 2010.
- 2010 First International conference of Mathematics and Computing at N.C. College of Engg. ISRANA Panipat 4-5 December 2010.
- 2010 19th International Conference of Forum for Interdisciplinary Mathematics (F/M) at Patna University, Patna Bihar 18-20, December 2010, Statistics, Dept.

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