

Prof. Dr. Sant Sharan Mishra, Ph.D.,D.Sc.

(Professor)

AREA OF SPECIALIZATION: Operations Research, Supply Chain, Queueing Models, Optimization, Fuzzy optimization, Artificial Neural Networks, Neuro Fuzzy System, Modelling and Prediction, Soft Computing, Simulation and Prediction Modelling (O.R. Models), Numerical and Statistical Computing, C++ and R Programming, Statistics, Sampling and related.



Department of Mathematics and Statistics (Centre of Excellence)

Dr. Rammanohar Lohia Avadh University Ayodhya– 224001, UP, India

(State Govt. University of Uttar Pradesh)

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ACADEMIC QUALIFICATIONS

D.Sc. Mathematics (Operations Research/Computing) 2008, Dr. Rammanohar Lohia Avadh University, Faizabad, UP, India (First D.Sc. of the University Residential Campus).

Ph.D. Mathematics (Special Functions/Num. Analysis) 1992, Dr. Rammanohar Lohia Avadh University, Faizabad, UP, India (From Residential Campus)

M.Sc. Mathematics (Statistics) I, 73%, with rank in the University, 1987, Dr. Rammanohar Lohia Avadh University, Faizabad, UP, India (Student of First

Batch, when residential campus of the university started)

B.Sc. Mathematics, I, 70%, with rank in the University, 1985, Dr. Rammanohar Lohia Avadh University, Faizabad, UP, India.

TEACHING/EMPLOYMENT EXPERIENCE: Total 27 Yrs (02 Yrs Foreign Univ.)

2009 onward, Professor, Dept. of Mathematics and Statistics (Centre of excellence), Dr. Rammanohar Lohia Avadh University, Ayodhya, UP, India.

2006-2009, Assoc. Professor, Dept. of Mathematics and Statistics, Dr. Rammanohar Lohia Avadh University, Ayodhya, UP, India.

2002-2005, Reader, Dept. of Mathematics and Statistics, Dr. Rammanohar Lohia Avadh University, Ayodhya, UP, India.

2003-2005 (Foreign Assignment), Assoc. Professor under the UNDP / World Bank Project at the Dept. of Applied Mathematics, Faculty of Natural Sciences, Debub University, Ethiopia (N-East Africa). Tenure extended by the university for another two years after evaluating excellent performance on the basis of teaching and research's contributions but couldn't avail this opportunity due to personal reasons.

1998-2002, Sr Lecturer, Dept. of Mathematics and Statistics, Dr. Rammanohar Lohia Avadh University, Ayodhya, UP, India.

1993-1998, Lecturer, Dept. of Mathematics and Statistics, Dr. Rammanohar Lohia Avadh University, Ayodhya, UP, India

Other Employment Experiences:

1989-1992, Project Economist/Statistics Officer (Class I Officer, scale 2200-4000), DRDA, Vikas Bhawan, Sultanpur, UP Govt.

1988-1989, Asst. Statistics Officer (Group I Officer), DRDA, Vikas Bhawan, Sultanpur, UP Govt.

TEACHING EXCELLENCE/INNOVATION

Applying innovative teaching methods (Interactive Board/Pad)

Use of teaching aids and instructional technology (Presenter/Visualizer/LCD)

Combining theoretical concepts with relevant application and scholarly excellence

Using research elements to achieve excellence in teaching

Applying problem-oriented and participatory teaching

Encouragement of critical thinking /conceptual teaching

RESEARCH EXPERIENCE: 30 years, Supervised Eleven candidates for Ph.D. Degree and two are presently working, Co-Established Centre of Excellence on Computing, Supervised three major Research Projects, Talks/papers-50, Chaired sessions- more than two-dozen, U-tube/ On line lecture -12

SIGNIFICANT CONTRIBUTIONS IN RESEARCH

Developing Computational Approach to Models connected with Operations Research particularly Queueing and Inventory Models.

Developing Fuzzy Paradigm Approach to Models connected with Operations Research particularly Queueing and Inventory Models.

Developing Fuzzy Optimization and Advanced Techniques of Data Base Modelling to Supply Chain Models.

Artificial Neural Network Approach to O.R. Models for prediction and classification analysis.

Neuro Fuzzy Approach to the evaluation of performance measures of O.R. Models.

Using of C++ and other software such as R, Mathematica and Matlab etc to find the solutions to O.R. Models which are not possible to solve manually due to its complexity.

Comparing optimal performance measures of O.R. models in various environments of deterministic, stochastic and fuzziness as uncertainty.

Using simulation modeling to generate simulated input for testing, training and running the models.

PUBLICATIONS: Research papers in Journals of International / National repute-

103,Books-02.

INTERNATIONAL VISITS/OUT-REACH (10 times):

Under the World Bank and UNDP project, selected and worked as an Associate Professor in the Department of Applied Mathematics, Faculty of Natural Sciences, Debu University, Ethiopia (N-East Africa) (2003-2005).

Recipient of grant support/fellowship of sixth International Congress of Industrial and Applicable Mathematics (ICIAM, Zurich University, Switzerland, offered by Director, Professor Rolf Jeltsch, ETH Zurich, Switzerland) to present the contributory talk on “machine interference model” at Zurich University, Switzerland, July 15-20, 2007.

Offered (three times) by Prof. Spanulescuc, President, Hyperion University and Hyperion Research and Development Institute, Bucharest, Romania consecutive three times to present the invited talk on “Inventory Control System” at Bucharest, Romania, E- Europe, International Conference on Econophysics, New Economics and Complexities, May 14-16, 2008; May 20-23, 2009 & May 20-23, 2010. Grant support was provided by Hyperion University, Bucharest, Romania

“Best Research Paper Award” jointly conferred by Global Digital Business Inc Maryland and University of Maryland Eastern Shore, USA, during International Conference/Annual Convention of MTMI USA (Oct. 14-16, 2010), supported by International Travel Scheme DST, Govt. of India, New Delhi.

Invited by Prof. Dr. Dietmar Homberg, Head, Research Group “Nonlinear Optimization and Inverse Problems”, Weierestrass Institute of Applied Analysis and Stochastics, Mohrenstr, 391, 0 117, Technical University Berlin, Germany and Conference Chair, International Conference of International Federation and Information Processing at Technical University, Berlin, Germany (12-16 Sept, 2011) to present contributory talk on “optimization and computing of machine interference model” during 12-16 Sept. 2011 in 25th IFIP TCT Conference by

Weierstrass Institute for Applied Analysis and Stochastics (WIAS), Technical University Berlin, Germany. Grant Support /fellowship was provided/sponsored by International Federation of Information Processing Austria, Technical University Berlin and National Board of Higher Mathematics, (Dept of Atomic Energy, Govt. of India) Pune.

Invited to present the research paper entitled as "Bio-computing Approach to Developing Customer Profile Identifier" in the 15th International Conference of International Academy of Physical Sciences held at Rajamangala University of Technology Thanyaburi, Thailand, Dec. 9-13, 2012.

Presented paper on "Fuzzy Paradigm and Supply Chain" in the International Conference of International Academy of Physical Sciences, organized by Nepal Academy of Science and Technology, Kathmandu, Nepal in between 16-17 Nov, 2018.

Presented paper on Fuzzy Paradigm and its Application in the International Conference of MTMI (USA) organized by Amity Institute of Higher Education, Mauritius in between 20-22 December, 2019.

AWARDS/FELLOWSHIP/RECOGNITIONS

Honoured by Prof. Manoj Dixit, Vice chancellor, Dr Ramamnohar Lohia University for glorifying the image of the University by outstanding contribution to the academics on Sthapna Divas of the University (March 3, 2020).

Honoured with SHIKSHAK SHREE AWARD BY Hon'ble Governor and Chancellor, Madam Anandi Ben and Hon'ble Chief Minister of UP, Shri Aditya Nath Yogi on Sept. 5, 2019 for significant contribution to Higher Education, particularly in Mathematics. This is a coveted and prestigious award of UP Government which is conferred for significant contribution to Higher Education.

Honoured with Associate Fellowship Award-2019 by International Academy of Physical Sciences Allahabad (India) for significant contribution to Mathematics (O.R.) during the international conference held at Chaudhary Charan Singh University, Meerut during 9-11 August, 2019 by Prof. K.B.Pandeya, President

IAPS, Prof P.N.Pandey, General Secretary, IAPS and Hon'ble Vice Chancellor NGBU Allahabad and Hon'ble Vice Chancellor, C.C.S University Meerut (UP).

“Distinguished Service Award” conferred by MTMI (USA) and Bilaspur University (M.P.), honoured by Prof G.D.Sharma, hon'ble Vice-Chancellor, Bilaspur University and Prof D.K. Sharma (USA, Univ. of Maryland, Chair of Conference) and Prof K.N.Agrawal (USA, Haward Univ, President MTMI) during international conference at BU in between 4-5 August, 2018.

“Distinguished Faculty Award” conferred by Venus International Foundation, Chennai, India, 2018.

“Distinguished Scientist Research Award” conferred by Venus International Foundation, Chennai, India, 2016.

Recognized as “Leading Professionals of the World-2013” by International Biographical Centre Cambridge, England, 2013.

“Best Research Paper Award” jointly conferred by Global Digital Business Inc Maryland and University of Maryland Eastern Shore, USA, during International Conference/Annual Convention of MTMI USA (Oct. 14-16, 2010), supported by International Travel Scheme DST, Govt. of India, New Delhi.

“Visiting Fellowship” awarded by Science and Engineering Research Council, Department of Science and Technology, Govt. of India, in the area of Operations Research / Optimization Theory, 2002.

PROFESSIONAL/ORGANIZATIONAL/SCIENTIFIC EXPERIENCE

Knowledge of Computer Applications and C++/R language. Obtained one year Diploma in Computers and Office Management, Indira Gandhi National Open University, New Delhi 2000.

Holder of UNESCO e-learning ICT Certificate, 2010.

Designed and taught various courses of Optimization Theory, Mathematical Modeling, Discrete Mathematics and Combinatory and Applied Mathematics etc at the dept. of Applied Mathematics, Faculty of Natural Science, Debu University, Ethiopia (N-East Africa) (2003-2005).

Drafted the project of World Bank and Development Innovation Fund for the

capacity building of the Faculty of Natural Science at the Debub University, Ethiopia (N-East Africa) (2003-2005).

Co-drafted and presented / defended the project of “Centre of Excellence on Advanced Learning of Computational Aspects of Mathematical Sciences 2011” for the department of Mathematics and Statistics, Dr Ram Manohar Lohia University Faizabad which was finally granted by Department of Higher Education, Govt. of Uttar Pradesh, Lucknow (2011-2012).

Organizing Secretary, National Workshop on “Application of Statistical Techniques in Computers and their Scope of Application”, organized by the Department of Mathematics and Statistics, Dr Ram Manohar Lohia Avadh University, Ayodhya, UP, India, Key-Resource Person: Prof. Satish K. Tripathi, Provost and Chief Academic Officer, Bufflow University, Newyork, USA, Dec. 27-28, 2009.

Organizing Secretary, National Workshop on “Application of Information and Decision Sciences to Mathematics”, organized by the Department of Mathematics and Statistics, Dr Ram Manohar Lohia Avadh University, Faizabad, UP, India, Key-Resource Person: Prof. Kamal Nayan Agrawal, Howard University, USA, Jan. 15-16, 2010.

Organizing Secretary National Seminar on “Current trends in Mathematics with special focus on Operations Research and Computers organized by the Department of Mathematics and Statistics, Dr Ram Manohar Lohia Avadh University, Faizabad, UP, India, and Sponsored by Department of Higher Education, Govt. of Uttar Pradesh., and March 28-29, 2010.

Organizing Secretary, National Workshop, Latest Trend in Advanced Computing with Special Focus on Generalized Modeling Approach to Logistic Regression" Organized by Department of Mathematics & Statistics (Centre of Excellence on Advanced Computing), Dr. Rammanohar Lohia Avadh University, Faizabad – 224001 (U.P.), INDIA, and Sponsored by Department of Higher Education, Govt. of Uttar Pradesh. December 26-27, 2011.

Convener, Two day workshop on “Morality and Character Building in

Education”, Chief Guest/Resource Persons, Swami Parrupanada, Ram Krishna Mission, Lucknow, Dr Chaitanya, Director, Swami Vivekanada Yoga Wellness Centre, Faizabad, December 11-12, 2011.

Convener, Vishwabandhutwa Diwas Celebration on First Chicago Speech of Swami Vivekanada in 1893, Sept 14, 2014.

Co-convener, International Yoga Day 2017 and seminar on “Yoga and Health” 19-21 June 2017.

Convener, Vishwabandhutwa Diwas Celebration on First Chicago Speech of Swami Vivekanada in 1893, Sept 14, 2017.

Organizing secretary, International Conference of International Academy of Physical Sciences, Organized by Dr Ram Manohar Lohia Avadh University, Faizabad, 13-15 April, 2018.

Convener, International Yoga Day 2018 and “Yoga Sandhya” 20-21 June 2018.

Convener, Vishwabandhutwa Diwas Celebration on First Chicago Speech of Swami Vivekanada in 1893, Dept. of Yoga Therapy, Dr. Rammanohar Lohia Avadh University, Faizabad – 224001 (U.P.), INDIA, Sept 19, 2018.

Convener, Convocation Week Lecture, Dept. of Yoga Therapy, Sept. 7, Dr. Rammanohar Lohia Avadh University, Faizabad – 224001 (U.P.), INDIA, 2018.

Convener, Convocation Week Lecture, Dept. of Mathematics and Statistics, Dr. Rammanohar Lohia Avadh University, Ayodhya – 224001 (U.P.), INDIA, Sept. 8, 2018.

Convener, National Seminar on “ Recent Advances in Yoga and Naturopathy, organized by Department of Yoga Therapy, Dr. Rammanohar Lohia Avadh University, Ayodhya – 224001 (U.P.), INDIA, and International Naturopathy Organization, New Delhi, in between March 30-31, 2019.

Convener, National Workshop on “R-Computing for Learning, Research and

Industrial Applications”, organized by Department of Mathematics and Statistics, Dr. Rammanohar Lohia Avadh University, Ayodhya–224001 (U.P.), India, , in between April 27-May 1, 2019.

Convener, Fit India Movement launched by Hon’ble Prime Minister of India, held at Dr. Rammanohar Lohia Avadh University, Ayodhya on August 29, 2019.

ADMINISTRATIVE EXPERIENCE/REGULATORY AFFAIRS:

Asst Dean, Students Welfare (2000-2003), Dr.RML Avadh University, Faizabad, UP, India.

Member, Executive Council, 1999, Dr.RML Avadh University, Faizabad, UP, India.

Member, Academic Council, Dr Ram Manohar Lohia Avadh University, Faizabad, UP, India.

Member, Faculty Board, Faculty of Science, Dr Ram Manohar Lohia Avadh University, Faizabad, UP, India.

Member, Board of Studies, Mathematics and Statistics, 2001, Dr.RML Avadh Univ, Faizabad, UP, India.

Member, Board of Studies, Mathematics, 2007, Bundelkhand University, Jhansi, UP, India.

Coordinator, Evaluation, Main Examination (Evaluation of Science, Commerce and Agriculture), Dr. Ram Manohar Lohia Avadh University, Faizabad, UP, 2008-09.

Member, Executive Committee, International Conference ENEC09 at Hyperion University of Bucharest, Romania, Europe, 2008, 2009 and 2010.

Coordinator, Evaluation, Main Examination, B.Ed. 2009-10

Member, Screening Committee for Course Outlines for UP Govt. Colleges Lecturer Selection Exam, Public Service Commission, UP, 2011.

Member, State Level Ph.D. Joint Entrance Exam Committee conducted by Dr Ram Manohar Lohia Avadh University, Faizabad, 2011.

Member Programme Committee, International Conference on ICQRIT 2012, organized by Society for Reliability Engineering, Quality and Operations Management (SREQOM), Department of Operational Research, University of Delhi, Co-Organized by Luleå University of Technology, Sweden

Chairman, Selection Board for Contractual Teachers (TGT and PGT Maths) Navodaya Vidyalaya Samiti, Central Zone, 2013

Coordinator, Evaluation Residential Campus, 2014

Centre Superintendent, Main and Private Exam, 2014

Member of Proctorial Board and in-charge proctor from time to time (2015-16)

Centre Superintendent, Residential and IET Exam, 2015-16

Centre Superintendent, UP State Engineering Entrance Exam, held at Dr RML Avadh University Faizabad, 2017

Coordinator, Dept. of M.Ed, Dr RML Avadh University Faizabad, from March till June 2017

Coordinator, Institute of Yogic Science, Dr RML Avadh University Ayodhya from June 2017 onwards

Member, Academic Council, Dr RML Avadh University, Faizabad, 2017 onwards

MEMBERSHIP:

American Mathematical Society USA(Associate), Indian Society for Industrial & Applied Mathematics (Life), Operational Research Society of India (Life-senior), Bharat Ganit Parishad, Lucknow., India (life), International Academy of Physical Sciences,India (life), International Academy of Physical Sciences, India (Associate Fellow), Indian Science Congress Association (member).

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Title and copyright: Research software (in C++) for computing the total optimal cost of the machine interference model, No: SW-3622/2007, dated: 14 / 09/ 2007.

Title and copyright: Research software (in C++) for computing the price of inventory for deteriorating items under perfect competition, No: SW-3621/2007, dated: 14 / 09/ 2007.

OTHER PUBLIC LIFE

Sanyojak, Vivekananda Kendra Kanyakumari, Branch Ayodhya from 2014 onwards.

Delivered a dozen lectures on Yoga, Swami Vivekanad and Shrimad Bhagwat Gita and Maharshi Arvind.

Arranging the educational and economic inputs as well as counseling for needy and poors of various sections.