

Dr G S R Murthy

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Expertise

Statistics and Probability

Carried out a number of industrial projects on applications of Statistics and Operations Research; Based on my contributions published a book on case studies with Springer, and contributed five chapters in another book edited volume by Springer; Designed National Drugs Survey (2014-16); Conducted State-wide survey (Andhra Pradesh 2007) for estimation agricultural power consumption; Carried out a project for DGGI on estimation Gross Bet Value at Casinos for the purpose of assessment of GST.

Work experience

1. Indian Statistical Institute 1999 — 2000

Former Head Hyderabad

2. Indian Statistical Institute 1997 — Present

Senior Technical Officer India

3. Indian Statistical Institute 1993 — 1997

Technical Officer India

4. Indian Statistical Institute 1986 — 1993

Technical Officer Grade III India

Education

1. Ph.D - 1995

Indian Statistical Institute, Kolkata

2. M. Stat. - 1983

Indian

3. B. Stat. (Hons) - 1981

Indian Statistical Institute

4. PG Diploma - 1983

Indian Statistical Institute

5. Specialist Development Fellowship - 1986

Indian Statistical Institute

Publication

1. T. Parthasarathy's contributions to complementarity problems: a survey

G S R Murthy.;Sivakumar, K. C.;Sushmitha, P. Annals of Operations Research, Volume 287, Year 2020, Pages 867-894

2. AN EFFICIENT ALGORITHM TO THE INTEGRATED SHIFT AND TASK SCHEDULING PROBLEM

Murthy, G. S. R. and Lalita, T R Technical Report, Year 2020

3. COMPACT ILP FORMULATIONS FOR A CLASS OF SOLUTIONS TO BERTH ALLOCATION QUAY CRANE ALLOCATION SCHEDULING PROBLEMS

Murthy, G. S. R. and Lalita, T R Technical Report, Year 2020

4. THE WIND POWER SCHEDULING PROBLEM

Murthy, G. S. R. and Lalita, T R

Technical Report, Year 2020

5. Mathematical formulations for large scale check-in counter allocation problem

G S R Murthy Journal of Air Transport Management, Volume 85, Year 2020, Pages

6. Clinical and angiographic profile and in-hospital outcomes of elective percutaneous interventions in patients with Diabetes mellitus in a tertiary care centre

Swarajyam, Veeramchaneni and Rao, CV and Murthy, GSR and Kumar, PVVNM Indian Heart Journal, Volume 69, Year 2017, Pages S61

Applications of Operations Research and Management Science - Case Studies

G. S. R. Murthy Springer International Series on Operations Research & Management Science, Volume 229, Year 2016, Pages 270

8. A Methodology for National Drugs Survey

G S R Murthy and T R Lalita Technical Report, Volume SQCOR - 2015 - 2, Year 2015, Pages

9. Plant Loading and Dispatch Planning

Murthy, GSR , Year 2015, Pages 51--89

10. A Case Study that Lead to New Designs

Murthy, GSR , Year 2015, Pages 249--266

11. Optimization in PCB Manufacturing

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12. Intelligent Modeling and Practical Solutions

Murthy, GSR , Year 2015, Pages 161--213

13. Material Optimization in Web Manufacturing

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14. Statistics for Measuring Tyre Contact Patch

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15. A Scientific Tool for Workforce Management in BPO Companies

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16. Deckle Optimization in Paper Industry

Murthy, GSR , Year 2015, Pages 91--135

17. Modelling Optimum Utilization of Irrigation Resources

Murthy, GSR , Year 2015, Pages 215--230

18. A Statistical Procedure for Minimizing In Vivo Tests for Quality Control of Vaccines

Murthy, GSR , Year 2015, Pages 37--49

19. A note on multivariate folded normal distribution

Sankhya: The Indian Journal of Statistics, Volume 77B, Year 2015, Pages 108-113

20. Assembling cells in wet cell traction batteries that power forklifts

International Series in Operations Research and Management Science, Volume 212, Year 2015, Pages 465-477

21. Cutting stock problems in the paper and sheet metal industries

International Series in Operations Research and Management Science, Volume 212, Year 2015, Pages 413-430

22. Wood inventory management in paper industry

International Series in Operations Research and Management Science, Volume 212, Year 2015, Pages 199-216

23. Optimizing the allocation of cuboidal boxes to cuboidal compartments for storage in a warehouse

International Series in Operations Research and Management Science, Volume 212, Year 2015, Pages 297-314

24. Designing earth dams optimally

International Series in Operations Research and Management Science, Volume 212, Year 2015, Pages 129-165

25. On fully semimonotone matrices

International Game Theory Review, Volume 15, Year 2013

26. Complementarity problems and positive definite matrices

Bhimashankaram, P and Parthasarathy, T and Murthy, ALN and Murthy, GSR Algorithmic Operations Research, Volume 7, Year 2012

27. A network flow model for irrigation water management

Murthy, ALN and Murthy, GSR Algorithmic Operations Research, Volume 7, Year 2012

28. Optimization in 2m 3n Factorial Experiments

Murthy, GSR and Manna, DK Algorithmic Operations Research, Volume 7, Year 2012

29. Evaluation Problem in Ultrasonic Examination of Ball Mill Shell

Rao, E Amma and Babu, D Vijaya and Murthy, GSR NDE 2002: Predict, Assure, Year 2002, Pages 2002

30. On the Connectedness of Solution Sets of Parametrized Equations and of Solution Sets in Linear Complementarity Problems

Gowda, M Seetharama and Murthy, GSR and Parthasarathy, T , Year 2001, Pages 165--177

31. Principal pivoting method for solving column sufficient complementarity problems

SIAM Journal on Matrix Analysis and Applications, Volume 22, Year 2001, Pages 527-532

32. The Linear Complementarity Problem in Static and Dynamic Games

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33. A Note on P 1-and Lipschitzian Matrices

Murthy, GSR and Neogy, SK and Thuijsman, Frank SIAM Journal on Matrix Analysis and Applications, Volume 21, Year 2000, Pages 636--641

34. On the solution sets of linear complementarity problems

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35. Some recent results on the linear complementarity problem

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36. Fully copositive matrices

Mathematical Programming, Series B, Volume 82, Year 1998, Pages 401-411

37. A Chain Condition for Q o-Matrices

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38. Constructive characterization of lipschitzian Q matrices

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39. Constructive characterization of Lipschitzian Q0-matrices

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40. LipschitzianQ-matrices areP-matrices

Murthy, GSR and Parthasarathy, T and Sabatini, Marco Mathematical programming, Volume 74, Year 1996, Pages 55--58

41. On co-positive, semi-monotoneQ-matrices

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42. Some Properties of Fully Semimonotone, Q_0-Matrices

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43. A note on negative Lipschitzian matrix

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44. Some contributions to linear complementarity problem

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45. On Lipschitzian Q-matrices

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46. Some properties of fully-semimonotone, Q \$\\$sub 0\$\\$-matrices

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47. A note on sufficient conditions for Q 0 and Q 0 \cap P 0 matrices

Murthy, GSR Mathematical programming, Volume 61, Year 1993, Pages 345--349

48. A copositive Q-matrix which is not R0

Murthy, GSR and Parthasarathy, T and Ravindran, G Mathematical programming, Volume 61, Year 1993, Pages 131--135

49. Ninth International Workshop on "Matrices and Statistics" in Celebration of CR Rao's 80th Birthday Hyderabad, AP, India: December 9--13, 2000

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