

VITA

DEBASIS KUNDU

Professor, Department of Mathematics and Statistics

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EDUCATION

B.Stat.(1982) Statistics, Indian Statistical Institute

M.Stat.(1984) Statistics, Indian Statistical Institute

M.A.(1985) Mathematics, University of Pittsburgh

Ph.D.(1989) Statistics, Pennsylvania State University

PH.D. DISSERTATION

Results in Estimating the Parameters of Exponential Signals in Presence of Noise

(Adviser : Prof. C.R. Rao).

RESEARCH INTERESTS

Statistical Signal Processing

Distribution Theory

Reliability & Survival Analysis

RESEARCH PROFILE

Total citations more than 13180. (Scholar Google Citation)

H-index: 58

i10-index: 190

APPOINTMENTS

1984-86 Teaching Assistant, University of Pittsburgh

1985-86 Research Assistant, University of Pittsburgh

1986-88 Teaching Fellow, University of Pittsburgh

1986-88 Research Fellow, University of Pittsburgh

1988-89 Teaching Fellow, Pennsylvania State University

1989-90 Assistant Professor, University of Texas at Dallas, (Tenure Track).

1990-95 Assistant Professor, Department of Mathematics, Indian Institute of Technology Kanpur, India.

1995-99 Associate Professor, Department of Mathematics, Indian Institute of Technology Kanpur, India.

1999-2011 Professor, Department of Mathematics, Indian Institute of Technology Kanpur, India.

2011- Professor on Higher Academic Grade, Department of Mathematics and Statistics, Indian Institute of Technology Kanpur, India.

SPECIAL APPOINTMENTS

1991 June - July, Visiting Scientist, Center for Multivariate Analysis at The Pennsylvania State University.

1992 June - July, Visiting Scientist, Div. of Mathematics and Theor. Statistics, Indian Statistical Institute.

1993 June - July, Visiting Scientist, Div. of Mathematics Theor. Statistics, Indian Statistical Institute.

1993 December, Visiting Scientist, Div. of Mathematics Theor. Statistics, Indian Statistical Institute.

1995 June-July, Visiting Scientist, Electrical Communications Engineering Department, Indian Institute of Science.

1996 May-July, Visiting Scientist, Dept. of Math., Stat. and Comp. Sc., Univ. of New Brunswick, Saint John.

1997 May-July, Visiting Scientist, Dept. of Math., Stat. and Comp. Sc., Univ. of New Brunswick, Saint John.

1998 Jan-July, Visiting Professor, Dept. of Math., Stat. and Comp. Sc., Univ. of New Brunswick, Saint John.

1998 Aug-Dec, Visiting Associate Professor, Department of Statistics, The Pennsylvania State University, University Park.

1999 Jan-May, Visiting Associate Professor, Department of Mathematics and Statistics, The University of Texas at San Antonio.

2000 June-July, Visiting Scientist, Department of Mathematics and Statistics, The University of Texas at San Antonio.

2001 May-July, Visiting Scientist, Department of Mathematics and Statistics, McMaster University.

2002 June, Visiting Scientist, Department of Mathematics and Statistics, McMaster University.

2002 September - 2003 May Visiting Professor, Department of Management Science and Statistics, The University of Texas at Antonio.

2004 June, Visiting Scientist, Department of Mathematics and Statistics, McMaster University.

2005 - 2013 (Summer), Visiting Scientist, Department of Management Science and Statistics, The University of Texas at San Antonio.

HONORS AND AWARDS

1. Recipient of National Scholarship, awarded by Ministry of Education and Culture, Government of India, 1977.
2. Recipient of National Scholarship, awarded by Ministry of Education and Culture, Government of India, 1979.
3. Elected as a **Fellow of the National Academy of Sciences, India** in the year 2001.
4. Elected as a **Fellow of the Royal Statistical Society, London** in the year 2003.
5. **C.L. Chandana Mathematics Award** from Canadian World Education Foundation for Distinguished and Outstanding Contribution to Mathematics Research and Teaching, 2004. Received Rs. 51,000.00 cash prize and a plaque.
6. Endowed USV Chair Professor 2008-2011.
7. Distinguished visitor of the Cochin University of Science and Technology, Kerala, India, under the ERUDITE scheme of the Government of Kerala, India, during 20-26 February, 2011.
8. Distinguished Visiting Professor, King Syed University, Saudi Arab, 2011-2012.
9. Endowed Arun Kumar Chair Professor 2011 - 2014.
10. Recipient of the first **Distinguished Statistician Award** by the Indian Society of Probability and Statistics, 2014.
11. Endowed Rahul and Namita Gautam Chair Professor 2014 - 2017.
12. Recipient of the first **Professor P.C. Mahalanobis Distinguished Educator Award** by the Operation Research Society of India, 2017.
13. Recipient of **Excellence In Teaching Award** by I.I.T. Kanpur, 2019.
14. Elected as a Fellow of the **Indian Society of Probability and Statistics** in 2019.

KEYNOTE, PLENARY AND ENDOWMENT LECTURES

1. Delivered **C.N. R. Rao** Lecture at I.I.T. Kanpur on March 06, 2013.

2. **Key Note Speaker** at the two-day conference on research in statistical science: past, present and future in Sardar Patel University, Gujarat on February 21, 2014.
3. **Key Note Speaker** at the annual conference of the Turkish Statistical Association, May 10 - May 14, 2014.
4. **A.M. Mathai** endowed lecture at the annual meeting of the Indian Society of Probability and Statistics held at University of Lucknow, Lucknow on Nov. 28 - 30, 2015.
5. **Key Note Speaker** at the National Conference on Recent Statistical Computing Techniques and Their Applications, Ramanujan College, University of Delhi, Delhi, India, March 11 - March 12, 2016.
6. **Key Note Speaker** at the IRSYSC-2016 conference on Statistics and its Applications, Hecettepe University, Ankara, Turkey during May 4-8, 2016.
7. **Plenary Speaker** at the First BRICS-2017 conference on Mathematics, Beijing, China during August 21-25, 2017.
8. **Plenary Speaker** at the Indian Society of Probability and Statistics Annual conference held at Coimbatore, India during January 3-5, 2018.
9. **P.V. Sukhatme** endowed lecture at the annual meeting of the Indian Society of Probability and Statistics held at M.D. University, Rohtak on December 27-30, 2018.
10. **Key Note Speaker** at the RAMSA-2019 conference held at the Jiyajee Institute of Information Technology, Noida during January 17-19, 2019.

MEMBERSHIP IN SCIENTIFIC SOCIETIES :

1. Institute of Mathematical Statistics
2. American Statistical Association
3. Indian Science Congress (Life Member)
4. Indian Society of Probability and Statistics (Life Member)
5. National Academy of Sciences, India (Fellow, Life Member)
6. Royal Statistical Society, London (Fellow)
7. Indian International Statistical Association (Life Member)

M.TECH. THESIS GUIDED:

1. Basu, B, "A Study on ordered peaks in seismic damage analysis", M. Tech Thesis Department of Civil Engineering, I.I.T. Kanpur, 1994 (jointly with Professor V. Gupta).
2. Rajat Kanodia, "Parameter estimation and model discrimination in single response models", M. Tech Thesis Department of Chemical Engineering, I.I.T. Kanpur, 2001 (jointly with Professor M.S. Rao).
3. Dinesh Kumar Bolisetty, "Parameter estimation and model selection in single and multi response systems", M. Tech Thesis Department of Chemical Engineering, I.I.T. Kanpur, 2004 (jointly with Professor M.S. Rao).
4. Hemangini Parmar, "Modelling drivers' toll-lane choice behaviour using mixed logit model", M. Tech Thesis Department of Civil Engineering, I.I.T. Kanpur, 2013 (jointly with Prof. P. Chakroborty).
5. Dhananjay Ram, "Parameter estimation for non-uniform speaker identification", M. Tech Thesis Department of Electrical Engineering Department, I.I.T. Kanpur, 2013 (jointly with Prof. Rajesh Hegde).

PH.D. THESIS GUIDED/ IN PROGRESS

1. Mitra, A. "Estimating the Parameters of Signal Processing and Some Related Models", I.I.T. Kanpur, 1996. (Currently a Professor at IIT Kanpur).
2. Sunderajan, S. "An Approach to Spatio-temporal Modeling of Some Meteorological Phenomena", I.I.T. Kanpur, 1997. (Currently working in an industry).
3. Bhattacharya, P. "Aspects of Radial Basis Function Net Design with Application in Speech Recognition", I.I.T. Kanpur, 1999. (Currently working in an industry).
4. Nandi, S. "Analysis of Some Non-Stationary Signal Processing Models", I.I.T. Kanpur, 2002. (Currently an Associate Professor at ISI Delhi).
5. Singh, B.B. "Small Area Estimation", I.I.T. Kanpur, 2003. (Currently Dy. Director at Indian Statistical Service).
6. Gupta, B. "Random geometric graphs on a class of densities with unbounded supports", I.I.T. Kanpur 2008. (Currently an Assistant Professor at IIIT Jabbalpur).

7. Prasad, A. "Some Non-Linear Regression Models and their Applications in the Statistical Signal Processing", I.I.T. Kanpur 2008. (Currently working in an industry).
8. Arabin Dey, "Discrimination among several distributions", I.I.T. Kanpur 2010. (Currently an Associate Professor at IIT Guwahati).
9. Abhijit Joarder, "Analysis of progressively hybrid censoring data", Meerut University, 2011. (Currently working in Reserve Bank of India).
10. Ananya Lahiri, "Estimators of parameters of chirp signals and their properties", I.I.T. Kanpur, 2012. (Currently an Assistant Professor at IIT Tirupati).
11. Sabyasachi Patra, "Variable selection and estimation in presence of multicollinear and categorical variables", I.I.T. Kanpur, 2012. (Currently an Assistant Professor at Indian Institute of Management Kashipore).
12. Ayon Ganguly, "Some contribution to the life testing models", I.I.T. Kanpur 2013. (Currently an Assistant Professor at IIT Guwahati).
13. Arnab Koley, "Some contributions to exponential failure data modeling", I.I.T. Kanpur, 2018. (Currently an Assistant Professor at IIM Indore).
14. Subhashree Mondal, "On joint type-II progressive censoring schemes", I.I.T. Kanpur, 2019. (Currently an Assistant Professor at IIT Dhanbad).
15. Rhythm Grover, "Frequency and frequency rate estimation of some non-stationary signal processing models", I.I.T. Kanpur, 2020, (Currently a Post Doctoral Fellow at Indian Statistical Institute, Delhi).
16. Deepak Prajapati, "Decision theoretic sampling plans under different censoring schemes", I.I.T. Kanpur, 2020 (Currently a Post Doctoral Fellow at Indian Statistical Institute, Delhi).
17. Ayan Pal, "On Failure Rate Based Accelerated Life Testing and Cure Based Models", Thesis submitted, (Currently an Assistant Professor at the Burdwan University).
18. Kiran Prajapat, "Discriminating between distribution functions", I.I.T. Kanpur, in progress. (currently at IIT Kanpur).

CONFERENCES/ SEMINARS:

1. W.N. Tauxe, D. Kundu, P. Rezende, H.A. Klein, E.V. Dubovsky, P.R. Krishnaiah; "Optimization of the Plasma Sampling Times in the Estimation of ERPF". Presented at IV International Congress World Federation of Nuclear Medicine and Biology, held at Buenos Aires, Argentina, Nov. 2-7, 1986.
2. W.N. Tauxe, D. Kundu, A. Bagchi, H.A. Klein, P.R. Krishnaiah, E.V. Dubovsky; "Optimization of Plasma Sampling Time in the Determination of Effective Renal Plasma Flow", Presented at the 36th Annual Meeting of the Society of Nuclear Medicine held at Cervantes Convention Center, St. Louis, U.S.A, June 13-16, 1989.
3. W.N. Tauxe, D. Kundu, H.A. Klein; "Prior Triage of Adult Patients and Fragmentation of Reference Curves Lower Error of FF Estimation", Presented at the 5th International Congress- World Federation of Nuclear Medicine and Biology held at Paris des Congress, Montreal, Canada, Aug. 26-31, 1990.
4. D. Kundu, "Estimating the Parameters of the Complex Valued Exponential Signals", Presented at the Interface 90, held at the Michigan State Univ., U.S.A., May 1990.
5. D. Kundu, "Estimating the Number of Signals Using Cross Validation Approach", Presented at the Indian Computing Congress Conference held at Hyderabad, India Dec. 1991.
6. D. Kundu, "A Modified Prony Algorithm for Damped or Undamped Exponential Signals", Presented at the International Multivariate variate Conference held at I.S.I. N. Delhi, India Dec, 1992.
7. D. Kundu and R. Kundu, "Consistent Estimates of Superimposed Exponential Signals when Some Observations are Missing", Presented at the International Conferences on Advances in Pattern Recognition and Digital Techniques held at I.S.I. Calcutta, India, 28-31 December 1993.
8. D. Kundu and A. Mitra, "Asymptotic Properties of the Least Squares Estimators of the Complex Valued Exponential Model", Presented at the International Conferences on Advances in Pattern Recognition and Digital Techniques held at I.S.I., India, 28-31 December, 1993.
9. D. Kundu and A. Mitra, "Asymptotic Properties of Some Non-Linear Time Series Regression Model", Presented at the Statistics Section of the 82nd. Indian Science Congress Conference held at Calcutta, 3-10 January, 1995.
10. N. Kannan, D. Kundu and A. Mitra, "Estimating DOA of Signals", Presented at the International Conference on Signal Processing and Communication held at The Indian Institute of Science, 9-12 August, 1995.

11. D. Kundu and A. Mitra, "Fitting Sum of Exponentials to Equispaced Data", presented at the Workshop "Inference on Non-Standard Data", held at Chandigarh University, 9-12 January, 1996. (Invited Lecture).
12. D. Kundu, "Importance of Science and Technology in The National Development", Presented at the 84th. Indian Science Congress, Held at New Delhi, January, 1997 (Invited Lecture).
13. D. Kundu, "Asymptotic Properties of the Least Squares Estimators of Sinusoidal Signals", Presented at the International Conference on Signal Processing and Communications, Held at I.I.Sc. Bangalore, 1997.
14. D. Kundu, "Estimating the Number of Sinusoids in Additive White Noise", Presented at the Canadian Statistical Association Conference, held at Fredericton, Canada, June 1-4, 1997.
15. D. Kundu, "On the determination of the number of signals and its performance analysis in presence of white noise", Presented at the International Conference on Signal Processing and Communications, I.I.Sc. Bangalore July 1999.
16. Swagata Nandi and D. Kundu, "Two dimensional frequency estimation", Presented at the International conference on Signal Processing and Communications, I.I.Sc. Bangalore, July 1999.
17. Swagata Nandi and Debasis Kundu, "Determination of Discrete Spectrum in a Stationary Random Field", Presented at the International Conference, *Reflections on the Past and Visions for the Future*, held at University of Texas San Antonio, March 2000. (Invited Lecture).
18. Debasis Kundu and Swagata Nandi, "Estimating the number of components in a two dimensional model", Presented at the International Conference, *International Symposium on Advances in Statistical Methods and Applications*, held at the University of Madras, December 21-22, 2000, (Invited Lecture).
19. Debasis Kundu, N. Kannan and N. Balakrishnan, "Analysis of Progressively Censored Competing Risks Data", *Indian Science Congress*, held at the University of Lucknow, January 4-7, 2002, (Featured Speaker).
20. Debasis Kundu and Swagata Nandi, "Asymptotic Properties of the Least Squares Estimators of the Parameters of the Chirp Signals", *IISA Fourth Biennial International Conference on Statistics, Probability and Related Areas*, held at the Northern Illinois University, DeKalb during June 14-16, 2002, (Invited Speaker).

21. Debasis Kundu, Nandini Kannan and N. Balakrishnan, "Analysis of Hybrid Censored Competing Risks Data", *International Conference on Recent Developments in Theoretical and Applied Statistics*, held at the University of Tamsui, Taiwan, during December 15-16, 2003, (Invited Speaker).
22. Debasis Kundu and N. Balakrishnan, "Analysis of new Step-Stress model", *One Day Conference in Recent Developments in Statistics*, held at the McMaster University, Canada, July 11, 2004, (Invited Speaker).
23. Debasis Kundu, "Analysis of partially complete time and type of failure data", *Conference in Reliability Analysis*, held at Indian Statistical Institute New Delhi, Dec 20-22, 2005, (invited speaker).
24. Debasis Kundu and R.D. Gupta, "Generalized exponential distribution", *Indo-Chinese conference on Probability and Statistics*, held at Indian Statistical Institute Kolkata, Jan 4-6, 2006, (invited speaker).
25. Debasis Kundu, "Step-Stress Model", *National Conference on Lifetime Data*, held at Cochin University of Science and Technology, Feb 20-22, 2006, (invited speaker).
26. Debasis Kundu, "Experimental Error", *REACH Symposium* held at Trimber Trail by IIT Kanpur, Mar 7-10, 2007, (invited speaker).
27. Debasis Kundu, "Bayesian inference and reliability sampling plan for Weibull distribution", *Platinum Jubilee Conference at the Indian Statistical Institute on Recent Advances in Statistics*, held at the Indian Statistical Institute, Kolkata, January 1 - 4, 2008.
28. Debasis Kundu, "On Progressive Censoring", *National Conference on Statistics*, held at University of Jammu, Feb 22 - 23, 2008.
29. Debasis Kundu, "Bivariate Generalized Exponential Distribution", Presented at Indian Statistical Institute, New Delhi, Sept. 15, 2008.
30. Debasis Kundu, "Reliability Sampling Plan", Presented at Indian Statistical Institute, New Delhi, Sept. 16, 2008.
31. Debasis Kundu, "On hybrid censoring", Kuwait University, Dec. 2009.
32. Debasis Kundu, "On bivariate proportional reverse hazard model", Kuwait University, Dec. 2009.
33. Debasis Kundu, "On bivariate distribution", Cochin University of Science and Technology, Feb. 2011.

34. Debasis Kundu, "Texture Modeling", Cochin University of Science and Technology, Feb. 2011.
35. Debasis Kundu, "Random Numbers", Cochin University of Science and Technology, Feb. 2011.
36. Debasis Kundu, "On bivariate and multivariate generalized exponential distribution", University of Pune, May, 2012.
37. Debasis Kundu and Swagata Nandi, "Estimating Periodic Signals: 1 & 2, Presented at the National Workshop on Statistical Signal Processing and its Applications, Andhra University, August, 2012.
38. Debasis Kundu, "Bivariate Marshall-Olkin Weibull Distribution", Presented at the National Workshop on Reliability, Survival Analysis and Industrial Statistics, University of Pune, Nov. 2012.
39. Debasis Kundu, "Step-Stress Analysis", Presented at the National Workshop on Research Scholar Meet at the Indian Statistical Institute Kolkata, February 2013.
40. Debasis Kundu, "Analyzing Periodic Data: Statistical Perspectives", C.N.R. Rao Lecture at I.I.T. Kanpur, March 2013.
41. Debasis Kundu, "Step-Stress Model and Introduction", Presented at the Kuwait University, April, 2013.
42. Debasis Kundu, "Analysis of Partially Complete Time and Type of Failure Time Data", Presented at the Kuwait University, April, 2013.
43. Debasis Kundu, "Analysis of Incomplete Competing Risks Data", Presented at the University of Pune, November, 2013.
44. Debasis Kundu, "On bivariate Weibull-Geometric Distribution", Presented at the NIT Kozhimode, January 2014. (Special invited lecture)
45. Debasis Kundu, "On bivariate geometric Weibull and generalized exponential distribution", Presented at the two-day conference on research in statistical science: past, present and future in Sardar Patel University, Gujarat on February 21, 2014 as the key Note lecture.
46. Debasis Kundu, "Geometric skew-normal distribution", Presented at the 9th International Statistics Day Symposium on May 10 - 14, 2014, in Antalya, Turkey as a Plenary speaker.

47. Debasis Kundu, "Step-Stress Model: An Introduction", Presented at the National Workshop organized by ISI Chennai, on August 19, 2014.
48. Debasis Kundu, "Hybrid Censoring: An Introduction", Presented at the National Workshop organized by ISI Chennai, on August 19, 2014.
49. Debasis Kundu, "A Journey Beyond Normality", Presented at the National Workshop organized by ISI Chennai, on August 19, 2014.
50. Debasis Kundu, "Normal Distribution and its Extensions", Presented at NISER, Bhubaneswar, November 17, 2014.
51. Debasis Kundu, "Analyzing Periodic Signals: Some Statistical Challenges", Presented at NISER, Bhubaneswar, November 20, 2014.
52. Debasis Kundu, "Monte Carlo method and statistical computing: my personal experience", Presented at the National Workshop on Statistics and Information Technology for a Growing Nation organized by ISI Chennai and S.V. University Tirupati, at tirupati on November 29, 2014.
53. Debasis Kundu, "Geometric skew normal distribution", Presented at the annual conference of Indian Society of Probability and Statistics held at S.V. University Tirupati on November 30, 2014.
54. Debasis Kundu, "On two different signal processing models", Presented at the Indo-Russian workshop held at Indian Statistical Institute, Delhi on January 15 to January 17, 2015.
55. Debasis Kundu, "Future of Statistics", Presented at the Lulea Technological University, Sweden on September 3rd, 2015.
56. Debasis Kundu, "A Journey beyond Normality", Presented at the Indian Institute of Information Technology, Allahabad on December 1, 2015.
57. Debasis Kundu, "Skew-Normal distribution", Presented at the Indian Institute of Management Udaipur, February 19, 2016.
58. Debasis Kundu, "Normal distribution and its extensions", Presented at the National Conference on Recent Statistical Computing Techniques and its Applications, Ramanujan College, Delhi, March 11 - March 12, 2016.
59. Debasis Kundu, "Multivariate geometric skew-normal distribution", Presented at the Two Days National Seminar on Statistics and its Applications, West Bengal State University, March 21 - March 22, 2016.

60. Debasis Kundu, "Normal distribution and beyond", Presented at the IRSYSC-2016 conference held at Hecettepe University, Ankara, Turkey during May 4-8, 2016.
61. Debasis Kundu, "On left truncated right censored competing risks data", Presented at the ISBIS-2016 conference held at Barcelona, Spain during June 8-10, 2016.
62. Debasis Kundu, "Random numbers: How random they are?", Presented at the Vijaywara Loyla College, Oct. 20th, 2016 in a INSPIRE program sponsored by Department of Science and Technology, Government of India for high school students.
63. Debasis Kundu, "Accelerated Life Testing: Introduction and Preliminaries", Presented at the International workshop on Reliability Theory and Survival Analysis, Nov. 3rd, 2016, held at the Pune University, India.
64. Debasis Kundu, "Accelerated Life Testing: Different Models", Presented at the International workshop on Reliability Theory and Survival Analysis, Nov. 4th, 2016, held at the Pune University, India.
65. Debasis Kundu, "Accelerated Life Testing: Miscellaneous Topics", Presented at the International workshop on Reliability Theory and Survival Analysis, Nov. 5th, 2016, held at the Pune University.
66. Debasis Kundu, "Multivariate geometric normal distribution", Presented at the Department of Mathematics and Statistics, University of Tanta, Egypt on 17th. December, 2016.
67. Debasis Kundu, "Two important signal processing models", Presented at the Department of Mathematics and Statistics, University of Tanta, Egypt on 18th. December, 2016.
68. Debasis Kundu, "Analyzing competing risks data", Presented at the Department of Mathematics and Statistics, University of Tanta, Egypt on 19th. December, 2016.
69. Debasis Kundu, "Step-Stress models", Presented at the International Conference of Mathematics, Statistics and Information Technology, held at the Department of Mathematics and Statistics, University of Tanta, Egypt during 20th-22nd December, 2016.
70. Shuvashree Mondal and Debasis Kundu, "Balanced Joint Progressive Censoring Scheme", Presented at the MMR-2017 conference held at Grenobble, France during 3rd-6th July, 2017.
71. Debasis Kundu, "Multivariate geometric skew-normal distribution", Presented at the First BRICS-2017 conference in Mathematics held at Beijing, China during August 21-25, 2017.

72. Debasis Kundu, "Bivariate generalized exponential distribution", Presented at a national conference in Statistics at the University of Trivandrum on Dec. 14, 2017.
73. Debasis Kundu, "Birnbam-Saunders Distribution: Some recent developments", Plenary lecture at the ISPS conference held at University of Coimbatore during January 3-5, 2018.
74. Debasis Kundu, "Bivariate distributions with singular component", One of the main speakers at Statquest held at the University of Kolkata, March 14, 2018.
75. Debasis Kundu, "Normal distribution: its use and its extensions", One of the main speakers at the National One Day Conference on the Applications of Mathematics in Biotechnology, held at the Ramanada College, Bishnupur, West Bengal, March 28, 2018.
76. Debasis Kundu, "Random numbers; how to generate and their uses", One of the main speakers at the short term training programme on Mathematical Modelling and Statistical Techniques organized by The department of Mathematics, SLIET, Longowal, Punjab from 30th July - 3rd Aug., 2018.
77. Debasis Kundu, "Reliability: a need of the day", One of the main speakers at the short term training programme on Mathematical Modelling and Statistical Techniques organized by The department of Mathematics, SLIET, Longowal, Punjab from 30th July - 3rd Aug., 2018.
78. Debasis Kundu, "Statistical Signal Processing", One of the main speakers at the short term training programme on Mathematical Modelling and Statistical Techniques organized by The department of Mathematics, SLIET, Longowal, Punjab from 30th July - 3rd Aug., 2018.
79. Debasis Kundu, "Skew-normal regression model", University of Colombo, March 21, 2019.
80. Debasis Kundu, "Bivariate Joint Progressive Scheme", Invited Speaker, City University of Hong Kong, MMR-2019, June 3-7, 2019.
81. Debasis Kundu, "Accelerated Life-Testing Models", One of the main speakers at the short term programme on Reliability Analysis organized by the DRDO, Chandigarh, from July 15-17, 2019.
82. Debasis Kundu, "Symmetric geometric skew normal regression model", Invited speaker, at the conference on Current Trend in Survey Statistics held at the National University of Singapore, August 13-16, 2019.

83. Debasis Kundu, “Professor C.R. Rao’s contribution in Statistics Signal Processing and its Implications”, Invited Speaker at the Birth Centenary of Professor C.R. Rao organized by the Indian Academy of Science in Bangalore, December 12-13, 2019.

EDITORIAL ACTIVITIES

1. Associate Editor of *Communications in Statistics-Theory & Methods*, Taylor and Francis, 2005 -
2. Associate Editor of *Communications in Statistics-Simulation & Computation*, Taylor and Francis, 2005 -
3. Associate Editor of *Journal of Statistical Theory and Practice*, Taylor and Francis, 2011 -
4. Associate Editor of *Journal of Statistical Distributions and its Applications*, Springer, 2012 -
5. Associate Editor of *Sankhya, Series B*, Springer, 2015 -
6. Associate Editor of *IEEE Transactions on Reliability*, 2017 -
7. Editor-in-Chief of *Journal of the Indian Society of Probability and Statistics*, Springer, 2017 -

BOOK:

1. *Statistical Computing; Existing Methods and Recent Developments*, eds. D. Kundu and A. Basu, Narosa, New Delhi, 2004.
2. *Statistical Signal Processing: Frequency Estimation*, D. Kundu and S. Nandi, Springer, New Delhi, ISBN 978-81-322-0627-9, 2012, MR3012502.
3. *Analysis of Step-Stress Models: Existing Results and Some Recent Developments*, D Kundu and A. Ganguly, Academic Press, London, ISBN: 9780128097137, 2017, MR3676749.
4. *Statistical Signal Processing: Frequency Estimation*, 2nd-Edition, S. Nandi and D. Kundu, Springer, Singapore, ISBN 978-981-15-6280-8, 2020.

BOOK CHAPTER:

- [1] R. N. Sengupta and D. Kundu, “Statistical Methods”, Chapter 8, *Decision Sciences; Theory and Practice*, Eds. R.N. Sengupta, A. Gupta and J. Dutta, CRC Press, ISBN 9781466564305, 2016.

RESEARCH PUBLICATIONS IN REFERRED JOURNALS:

DISCUSSION PAPER

1. (with N. Balakrishnan) “Hybrid censoring: models, inferential results and applications”, (with discussions), *Computational Statistics and Data Analysis*, vol. 57, no. 1, 166 - 209, 2013.
2. (with N. Balakrishnan) “Birnbaum-Saunders Distribution: A Review of Models, Analysis and Applications”, (with discussions), *Applied Stochastic Models in Business and Industry*, (to appear). vol. 35, no. 1, 4 - 132, 2019.

TEN MOST IMPORTANT PAPERS:

1. “Estimating the Parameters of Undamped Exponential Signals”, *Technometrics*, vol. 35, no. 2, 215 - 218, 1993.
2. (with A. Mitra) “Consistent Method of Estimating the Superimposed Exponential Signals”, *Scandinavian Journal of Statistics*, vol. 22, no. 1, 73-82, 1995.
3. (with R.D. Gupta) “Generalized Exponential Distributions”, *Australian and New Zealand Journal of Statistics*, vol. 41, no. 2, 173-188, 1999.
4. (with S. Nandi) “Asymptotic properties of the least squares estimators of the parameters of the Chirp signals”, *Annals of the Institute of Statistical Mathematics*, vol. 56, no. 3, 529 - 544, 2004.
5. (with Swagata Nandi), “Estimating the parameters of chirp signals in stationary noise”, *Statistica Sinica*, vol. 18, no. 1, 187 - 201, 2008.
6. “Bayesian inference and reliability sampling plan for Weibull distribution”, *Technometrics*, vol. 50, no. 2, 144 - 154, 2008.
7. (with R.D. Gupta) “Bivariate generalized exponential distribution” *Journal of Multivariate Analysis*, vol. 100, no. 4, 581 - 593, 2009.

8. (with Swagata Nandi) "Estimating the parameters of Burst Type signals", *Statistica Sinica*, vol. 20, no. 2, 733 - 746, 2010.
9. (with N. Balakrishnan, Ahad Jamalizadeh), "Bivariate Birnbaum-Saunders distribution and associated inference" *Journal of Multivariate Analysis* , vol. 101, 113-125, 2010.
10. (with N. Balakrishnan and Ahad Jamalizadeh) "Generalized Multivariate Birnbaum-Saunders distribution and related inferential issues", *Journal of Multivariate Analysis*, vol. 116, 230 - 244, 2013.

FIVE MOST CITED PAPERS:

1. (with R.D. Gupta) "Generalized Exponential Distributions", *Australian and New Zealand Journal of Statistics*, vol. 41, no. 2, 173-188, 1999. (cited more than 861)
2. (with R.D. Gupta) "Generalized Exponential Distributions: Different Methods of Estimation", *Journal of Statistical Computation and Simulation*. vol. 69, no. 4, 315-338, 2001. (cited more than 325 times)
3. (with R.D. Gupta) "Generalized exponential distribution: Existing results and some recent developments", *Journal of Statistical Planning and Inference*, vol. 137, 3537 - 3547. (cited more than 246 times)
4. (with R.D. Gupta) "Discriminating Between the Weibull and the GE Distributions", *Computational Statistics and Data Analysis*, vol. 43, 179-196, 2003. (cited more than 184 times)
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- [2] “Estimating the Number of Signals Using Cross Validation Approach”, *Information Technology*, Eds.: E. Balagurusamy and B. Sushila, Tata-McGraw Hill, New Delhi, 1991, 444-447.
- [3] (with A. Mitra) “Asymptotic Behavior of the Least Squares Estimators of Superimposed Exponential Signals: Main Results”, *P. C. Mahalanobis Birth Centenary Volume*, Edited by A. K. Datta, Published by Indian Statistical Institute, 1993, 663 - 670.
- [4] (with R. Kundu) “Consistent Estimates of Super Imposed Exponential Signals When Some Observations are Missing: Part I”, *P. C. Mahalanobis Birth Centenary Volume*, edited by A. K. Datta, Published by Indian Statistical Institute, 1993, 679 - 685.
- [5] (with N. Kannan and A. Mitra) “Estimating DOA of Signals”, *Signal Processing and Communications*, 63-68, 1995.
- [6] (with P. Bhattacharya, S.K. Mullick) “A Sequential Decision Method for Reasoning with Imprecise Tests”, *Pattern Recognition, Image Processing and Computer Vision* Eds. P.P. Das and B.N. Chatterji, Norosa Publishing House, New Delhi, 112-117, 1996.

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- [9] "Frontiers of Science and Engineering and Their Relevance to National Developments", *Proceedings of the 84th. Indian Science Congress, Young Scientist Session*, 1997,5-6. (Invited Lecture)
- [10] "On the determination of the number of signals and its Performance analysis in presence of white noise", *Proceedings of the SPCOM99*, Eds. A. Makur and V. Sundar Rajan, 11-18, 1999.
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