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AREAS OF EXPERTISE

Mathematical Methods Social Sciences

Dr. G.S. David Sam Jayakumar is an Associate Professor in Jamal Institute of Management, Jamal Mohamed college, Trichy, Tamil Nadu, India. He is a Quant and a specialist in handling more than 40 mathematical and statistical softwares. At present, he is doing research in probability distributions and multivariate analysis. He Published 90 papers in various indexed journals and he is also Peer reviewed 250 in many reputed Journals like IEEE Access and so on.

EDUCATION

M.Com,M.B.A,M.Phil,Ph.D 2008

Jamal Mohammed college

PROFESSIONAL EXPERIENCE

Jamal Mohamed College, Khajanagar 2006 - Present

Associate Professor

Tiruchirappalli

HONOURS AND AWARDS

Best Senior Researcher 2018

Awarded by: Jamal Mohamed college

PROFESSIONAL MEMBERSHIPS

Qeios 2024

Peer reviewer

Communication in statistics: Simulation and Computation 2023

Peer reviewer

IEEE Access 2022

Peer reviewer

Communication in statistics: Theory and methods 2022

Peer reviewer

Journal of Applied statistics 2022

Peer reviewer

Thai statistician 2022

Peer reviewer

Malaysian Journal of Mathematical sciences 2022

Peer reviewer

Brazilian Journal of Probability and statistics 2019

Peer reviewer

PUBLICATIONS

1. **A Squared Mahalanobis Rank Distances and Detection of Outliers in Multivariate Ordinal Data**

David Sam Jayakumar G.S.;Samuel W.;Thomas B.J.

Journal of Statistical Theory and Practice , Vol. 16 (2022) , pp.

2. **On using the exact sampling distribution of multivariate coefficient of variation**

Jayakumar D.S.;Kan S.A.;Wilfred S.

Thailand Statistician , Vol. 19 (2021) , pp. 511-521

3. **A new bivariate beta distribution of Kind-1 of Type-A**

David Sam Jayakumar, A Sulthan and W Samuel

Journal of Statistics and Management Systems , Vol. 22 (2019) , pp. 141--158

4. **Exact distribution of Hadi's (H2) influence measure and identification of potential outliers**

David Sam Jayakumar G.S.;Sulthan A.

Haceteppe Journal of Mathematics and Statistics , Vol. 48 (2019) , pp. 536-551

5. **A new multivariate generalized log-double exponential family of distribution of kind-2**

Journal of Statistics and Management Systems , Vol. 21 (2018) , pp. 15--45

6. **A new multivariate generalized log-double exponential family of distribution of kind-1**

Journal of Statistics and Management Systems , Vol. 21 (2018) , pp. 337--372

7. **A new generalisation of multivariate Wigner distribution of kind-2**

Journal of Statistics and Management Systems , Vol. 21 (2018) , pp. 305--322

8. **On using the distribution of Cook-Weisberg statistic and identification of**

influential observations

Jayakumar G.S.D.S.;Sulthan A.;Samuel W.

Electronic Journal of Applied Statistical Analysis , Vol. 11 (2018) , pp. 21-41

9. **Exact distribution of Hadi's influence measure and identification of potential outliers**
Haceteppe Journal of Mathematics and Statistics (2018)
10. **A form of multivariate generalised exponential family of distribution**
Journal of Statistics and Management Systems , Vol. 20 (2017) , pp. 847--870
11. **A new generalisation of Sam-Solai's multivariate additive gumbel min distribution**
Journal of Statistics and Management Systems , Vol. 20 (2017) , pp. 787--799
12. **Evaluating Brand Personality and its impact on Human Personality of Cosmetic Users**
Amity Journal of Marketing , Vol. 2 (2017) , pp. 17--39
13. **Effect of patient centredness on health service experience: Mediation of patient satisfaction**
John Thomas B.;JayaKumar D.S.;Suganya G.
British Journal of Health Care Management , Vol. 23 (2017) , pp. 591-600
14. **On The Exact Distribution of Andrew-Pregibon (AP) Statistic and Identification of Influential Observations**
International Journal of Engineering and Future Technology™ (2017)
15. **A NEW FORM OF MULTIVARIATE GENERALIZED DOUBLE EXPONENTIAL FAMILY OF DISTRIBUTIONS OF KIND-2**
Journal of Reliability and Statistical Studies , Vol. 10 (2017) , pp. 179--201
16. **A Co-integration Analysis of Market Indices with Special Reference to Asian Countries in G20.**
Wealth: International Journal of Money, Banking & Finance , Vol. 5 (2016) , pp.
17. **Hadi's Influence Measure and Identification of Regression Clusters Based on Potential Outliers**
International Journal of Statistics & Economics™ , Vol. 7 (2016) , pp. 59--72
18. **Modelling Effects of Foreign Institutional Investment in BSE**
SCMS Journal of Indian Management , Vol. (2016) , pp. 91--103
19. **AN ALTERNATIVE DISTRIBUTION OF INTERNAL STUDENTIZED RESIDUAL AND IDENTIFICATION OF OUTLIERS THROUGH EVIDENCE PLOTS**
Science and Technology RMUTT Journal , Vol. 6 (2016) , pp. 115--138
20. **EXACT DISTRIBUTION OF SQUARED WELSH-KUH DISTANCE AND IDENTIFICATION OF INFLUENTIAL OBSERVATIONS**
Journal of Reliability and Statistical Studies , Vol. (2016) , pp. 69--91
21. **Modelling Non-Normality and Consistency of Returns Distribution of Major Industries in BSE**
Rajagiri Management Journal (2016)
22. **On the Review and Application of Entropy in Finance.**

23. **Modeling the Portfolio selection problem with special reference to selected Industries in BSE**
International Journal of Management (2015)
24. **MODELLING THE BRAND IDENTITY OF BISCUIT BRANDS IN NAMAKKAL DISTRICT**
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25. **A new procedure of regression clustering based on Cook's D**
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Electronic Journal of Applied Statistical Analysis , Vol. 8 (2015) , pp. 13-27
26. **MODELING THE RANDOM WALK HYPOTHESIS FOR SELECT INDUSTRIES LISTED IN BSE**
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27. **EXACT SAMPLING DISTRIBUTION OF SAMPLE COEFFICIENT OF VARIATION**
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28. **A NON-STUDENT DISTRIBUTION OF JACK-KNIFE RESIDUALS AND IDENTIFICATION OF OUTLIERS**
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29. **Exact distribution of Cook's distance and identification of influential observations**
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30. **FUZZY CLUSTERING APPROACH TO EMPLOYER BRAND POSITIONING-AN INDIAN EMPLOYER STUDY.**
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31. **A New Generalisation of Sam-Solai's Multivariate Additive Uniform Distribution**
Jayakumar G.S.D.S.;Solairaju A.
Journal of Interdisciplinary Mathematics , Vol. 17 (2014) , pp. 435-450
32. **A New Generalisation of Sam-Solai's Multivariate Additive Uniform Distribution**
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33. **Heteroscedasticity in survey data and model selection based on weighted Schwarz bayesian information criteria**
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34. **A new form of Sampling Distribution of Bi-variate Sample Correlation Co-efficient**
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36. **Identification of multicollinearity and it's effect in model selection**
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37. EXACT DISTRIBUTION OF HAT VALUES AND IDENTIFICATION OF LEVERAGE POINTS

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38. Identification of Multicollinearity and it's effect in Model selection

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39. Modelling: Employee perception on training and development

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40. A Multivariate Generalized Double Exponential Family of Distribution of Kind-1

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41. A new procedure of clustering based on multivariate outlier detection

G Jayakumar, Bejoy John Thomas

Journal of Data Science , Vol. 11 (1) (2013) , pp. 69-84

42. Testing the weak form efficiency of Indian stock market with special reference to NSE

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43. A NEW GENERALISATION OF SAM-SOLAI'S MULTIVARIATE HYPERBOLIC SECANT DISTRIBUTION

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44. • A NEW GENERALISATION OF SAM-SOLAI'S MULTIVARIATE ADDITIVE F-DISTRIBUTION OF KIND-2

International Research Journal of Pure Algebra ISSN: 2248-9037 (2013)

45. Stress Symptoms: Structural Equation Modelling.

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46. A NEW GENERALISATION OF SAM-SOLAI'S MULTIVARIATE ADDITIVE CHI-SQUARE DISTRIBUTION

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47. HETEROSCEDASTICITY IN SURVEY DATA AND MODEL SELECTION BASED ON WEIGHTED HANNAN-QUINN INFORMATION CRITERION

Journal of Reliability and Statistical Studies , Vol. (2013) , pp. 17--40

48. Modeling the Selection of Returns Distribution of G7 Countries

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49. A NEW GENERALISATION OF SAM-SOLAI'S MULTIVARIATE ADDITIVE GAMMA DISTRIBUTION

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50. A new generalisation of Sam-Solai's Multivariate additive chi-square distribution

David Sam Jayakumar G.S.;Solairaju A.;ASulthan

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51. A new generalisation of Sam-Solats multivariate hyperbolic secant distribution

David Sam Jayakumar G.S.;Solairaju A.;Sulthan A.

Mathematical Sciences Research Journal , Vol. 17 (2013) , pp. 330-342

52. **A new generalisation of sam-solai's multivariate normal distribution**
Jayakumar G.S.D.S.;Solairaju A.
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53. **A new generalisation of sam-solats multivariate symmetric arcsine distribution of kind-2**
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54. **• A NEW GENERALISATION OF SAM-SOLAI'S MULTIVARIATE WIGNER DISTRIBUTION OF KIND-1 OF TYPE-B**
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55. **• A NEW GENERALISATION OF SAM-SOLAI'S MULTIVARIATE ADDITIVE NAGAKAMI-M DISTRIBUTION**
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57. **Weak form efficiency: Indian stock market**
 SCMS Journal of Indian Management (2012)
58. **Modeling the Evaluation of Customer Based Brand Equity of Two Wheelers**
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59. **Modeling the Evaluation of Customer Based Brand Equity of Two Wheeler**
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60. **Identifying important service quality parameters for major Indian food retailers-A case study**
 African Journal of Marketing Management (2012)
61. **Evaluating Aaker's Brand Equity Model for Four Wheelers**
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62. **Modeling the optimization of service quality for Indian food retail stores by prioritized service attributes-a non-linear programming approach**
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63. **Physical and Core Services Quality: State Bank of India**
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64. **Services Quality Dimensions: Indian Food Retailers**
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65. **Services Quality Dimensions: Indian Food Retailers.**
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66. **Single and Multiple Expectations: Service Quality Retailing.**
 SCMS Journal of Indian Management (2010)
67. **Segmentation of Indian shoppers based on store attributes**
Hemalatha M.;Sivakumar V.J.;Jayakumar G.S.D.S.
 International Journal of Business Innovation and Research , Vol. 3 (2009) , pp. 651-669

68. **A study on brand equity of Hero Honda bikes and Maruti cars in Tiruchirappalli District**
(2005)
69. **A NEW FORM OF SAM-SOLAI'S MULTIVARIATE GENERALIZED NORMAL DISTRIBUTION**
, Vol. 3 (0) , pp. 22--43



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Associate Professor, Jamal Institute of Management

Mathematical Statistics
Model selection
Probability Distribution
Multivariate statistics

	All	Since 2021
Citations	384	156
h-index	10	6
i10-index	10	4

TITLE	CITED BY	YEAR
A bivariate mixture of student's t and normal distribution : Properties and estimation GSDS JayaKumar,Samuel,Bejoy Journal of Statistics & Management Systems 29 (5), 487-515		2026
The beta (b5) distribution of Kind-5 GSDS JayaKumar,Samuel Journal of Statistics & Management Systems 29 (3), 285-299		2026
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Testing the model selection in regression analysis with the Del distribution WS G.s David Sam jayakumar,A.Sulthan International Journal of Data science 9 (1), 35-62		2024
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An Extended Literature Review of Data envelopment analysis and its application in India J Satyamurti, GSDS Jayakumar, S Wilfred SECOM MANAGEMENT & TECHNOLOGY REVIEW 10 (2), 61-71		2023
A Squared Mahalanobis Rank Distances and Detection of Outliers in Multivariate Ordinal Data GS David Sam Jayakumar, W Samuel, BJ Thomas Journal of Statistical Theory and Practice 16 (3), 35		2022
Diagnosing The Conditional Dependence Between Returns And Risk With Vector Autoregressive Model During Covid Crisis W Samuel, GSDS Jayakumar Parikalpana: KIIT Journal of Management 18 (2), 43-52		2022
Portfolio Management, Classical and Robust statistics-A Literature review W Samuel, DS Jayakumar Advances and Applications in Mathematical Sciences 21 (Issue 8), 4533-4540		2022

TITLE	CITED BY	YEAR
An entropy divergence, D-distribution and its selected application in multivariate financial time series DS Jayakumar, A Sulthan, W Samuel International Journal of Financial Services Management 11 (No.2), pp.134 - 148		2022
Testing the equality of Nifty 50 stocks' volatility risk using correlated F-ratio GSDS Jayakumar, W Samuel, A Sulthan International Journal of Financial Markets and Derivatives 8 (4), 384-409	1	2022
Modelling the Effect of Low-Cost Major Indian Airlines Services Quality on Passenger's Satisfaction and their Re-Flying Intention GDS Jayakumar, W Samuel, M Salahuddeen IPE Journal of Management 11 (2), 18-46	1	2021
On Using the Exact Sampling Distribution of Multivariate Coefficient of Variation DS Jayakumar, SA Kan, S Wilfred Thailand Statistician 19 (3), 511-521	2	2021
On Using the Multivariate Extension of Hadi's Influence Measure and Andrew-Pregibon Statistic in Diagnosing Multivariate Regression Residuals GSDS Jayakumar, A Sulthan, W Samuel Aligarh Journal of Statistics 41, 23-46	1 *	2021
On Using the Multivariate Extension of Hadi's Influence Measure and Andrew-Pregibon Statistic in Diagnosing Multivariate Regression Residuals. GS David Sam Jayakumar, A Sulthan, W Samuel Aligarh Journal of Statistics 41		2021
Modelling the impact of attitude and satisfaction on perception of customers with special reference to supermarkets and family run stores– structural equation modelling approach GSDS Jayakumar, W Samuel NMIMS Management Review 38 (3), 131-145		2020
THE BIVARIATE EXTENSION OF AMOROSO DISTRIBUTION DS Jayakumar, A Sulthan, W Samuel Indonesian Journal of Statistics and Its Applications 4 (2), 261-283	1	2020
A McKay type bivariate beta distribution of third kind GSDS Jayakumar, A Sulthan, W Samuel Journal of Statistics and Management Systems 23 (4), 695-712	1	2020
The Holistic and Generalized (H-G) Family of Continuous Semi-Bounded Distribution DS Jayakumar, A Sulthan, W Samuel Aligarh Journal of Statistics 40, 53-76		2020

DAVID SAM JAYAKUMAR

<https://www.webofscience.com/wos/author/rid/N-1510-2013>

Web of Science ResearcherID: [N-1510-2013](#)

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Publication Metrics

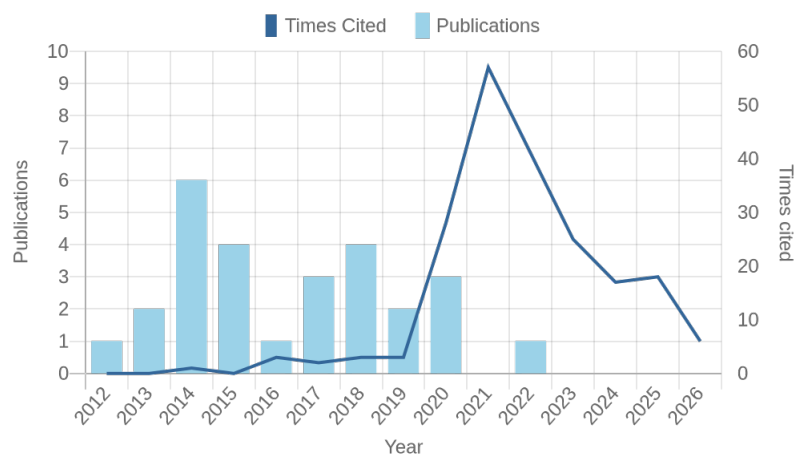
For manuscripts published from date range June 2006 - July 2026

4	204
H-index	Sum of Times Cited
42	27
Total Publications	Web of Science Core Collection Publications

For all time

4	204
H-index	Sum of Times Cited
66	27
Total Publications	Web of Science Core Collection Publications

Publication Impact Over Time



Publishing Summary

For manuscripts published from date range June 2006 - July 2026

(9) Journal of Statistics and Manage...	(6) Journal of Reliability and Statistic...
(4) Electronic Journal of Applied Stat...	(3) International Journal of Manage...
(2) Hacettepe Journal of Mathematic...	(2) Journal of Interdisciplinary Mathe...
(1) British Journal of Healthcare Man...	(1) Research & Reviews: Journal of S...
(1) Mathematical Sciences Research...	(1) Advances In Management
(1) International Journal of Business ...	(1) International Journal of Engineeri...
(1) International Research Journal of...	(1) Think India
(1) Journal of King Saud University - ...	(1) Journal of Statistical Theory and ...
(1) International Journal of Indian Cu...	(1) NMIMS Management Review

Publications

For manuscripts published from date range June 2006 - July 2026 (42)

Times Cited
(All time)

A Squared Mahalanobis Rank Distances and Detection of Outliers in Multivariate Ordinal Data

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Authors (3): David Sam Jayakumar, G. S.; Samuel, W.; Thomas, Bejoy John

Published: Sep 2022 in Journal of Statistical Theory and Practice

DOI: 10.1007/S42519-022-00259-7

Accession Number: WOS:000793166100002

Modelling the impact of attitude and satisfaction on perception of customers with special reference to supermarkets and family run stores - structural equation modelling approach Authors (2): Jayakumar, G. S. David Sam; Samuel, W. Published: Aug 2020 in NMIMS Management Review Accession Number: WOS:000575009600009	0
A McKay type bivariate beta distribution of third kind Authors (3): Jayakumar, G. S. David Sam; Sulthan, A.; Samuel, W. Published: May 2020 in Journal of Statistics and Management Systems DOI: 10.1080/09720510.2019.1675292 Accession Number: WOS:000518510400001	0
High performance of pyrochlore like Sm₂Ti₂O₇ heterojunction photocatalyst for efficient degradation of rhodamine-B dye with waste water under visible light irradiation Authors (9): Kaviyarasu, K.; Magdalane, C. Maria ... Kennedy, J. Published: Mar 2020 in Journal of King Saud University - Science DOI: 10.1016/J.JKSUS.2019.12.006 Accession Number: WOS:000518388400038	160
The Strategic Urge - Employer Brand Positioning Of Banking And Financial Services Industry Authors (3): Dr. Bejoy John Thomas; Dr. G.S. David Sam Jayakumar; Ms. S. Clemence Jenifer Published: Sep 2019 in Think India DOI: 10.26643/THINK-INDIA.V22I3.8430	Not indexed in the Web of Science
A new bivariate beta distribution of Kind-1 of Type-A Authors (3): Jayakumar, G. S. David Sam; Sulthan, A.; Samuel, W. Published: Jan 2019 in Journal of Statistics and Management Systems DOI: 10.1080/09720510.2018.1537593 Accession Number: WOS:000455503400008	5
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On using the distribution of Cook-Weisberg statistic and identification of influential observations Authors (3): Jayakumar, G. S. David Sam; Sulthan, A.; Samuel, W. Published: Apr 2018 in Electronic Journal of Applied Statistical Analysis DOI: 10.1285/I20705948V11N1P21	0

A new generalisation of multivariate Wigner distribution of kind-2 Authors (3): Jayakumar, G. S. David Sam; Solairaju, A.; Sulthan, A. Published: 2018 in Journal of Statistics and Management Systems DOI: 10.1080/09720510.2018.1429109 Accession Number: WOS:000430423000001	0
A new multivariate generalized log-double exponential family of distribution of kind-2 Published: 2018 in Journal of Statistics and Management Systems DOI: 10.1080/09720510.2017.1401296 Accession Number: WOS:000425113200002	0
Effect of patient centredness on health service experience: Mediation of patient satisfaction Authors (3): Bejoy John Thomas; David Sam JayaKumar; Suganya G Published: Dec 2017 in British Journal of Healthcare Management DOI: 10.12968/BJHC.2017.23.12.591	Not indexed in the Web of Science
A form of multivariate generalised exponential family of distribution Published: Sep 2017 in Journal of Statistics and Management Systems DOI: 10.1080/09720510.2017.1401798 Accession Number: WOS:000424039900005	0
On The Exact Distribution of Andrew-Pregibon (AP) Statistic and Identification of Influential Observations Authors (2): Jayakumar, G. S. David Sam; Sulthan, A. Published: 2017 in International Journal of Engineering and Future Technology	Not indexed in the Web of Science
A new generalisation of Sam-Solai's multivariate additive gumbel min distribution Published: 2017 in Journal of Statistics and Management Systems DOI: 10.1080/09720502.2017.1386863 Accession Number: WOS:000424039900001	0
A NEW FORM OF MULTIVARIATE GENERALIZED DOUBLE EXPONENTIAL FAMILY OF DISTRIBUTIONS OF KIND-2 Published: 2017 in Journal of Reliability and Statistical Studies Accession Number: WOS:000405840600014	0
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Published: 2013 in Advances In Management

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Authors (2): Jayakumar, G. S. David Sam; Solairaju, A.
Published: Jan 2012 in Journal of Interdisciplinary Mathematics
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Accession Number: WOS:000213692900001

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• A NEW GENERALISATION OF SAM-SOLAI'S MULTIVARIATE ADDITIVE
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Published: 2012 in International Research Journal of Pure Algebra (IRJPA)

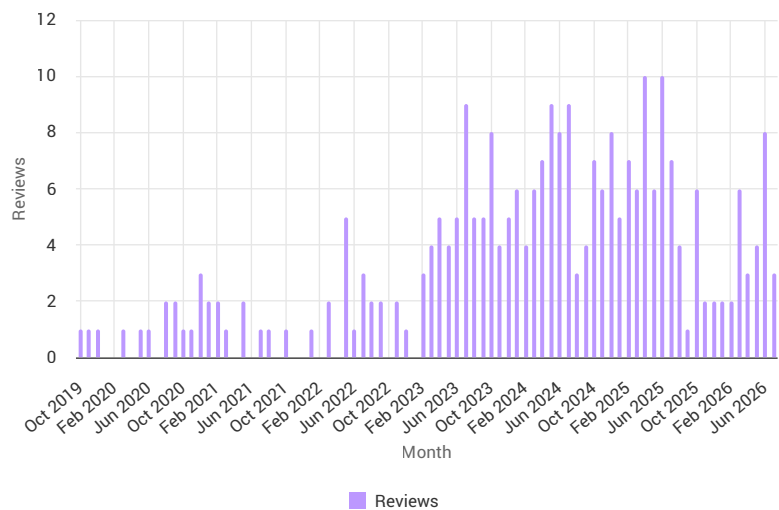
Not indexed in
the Web of
Science

Segmentation of Indian shoppers based on store attributes
Authors (3): M. Hemalatha; V.J. Sivakumar; G.S. David Sam Jayakumar
Published: 2009 in International Journal of Business Innovation and Research
DOI: 10.1504/IJBIR.2009.027207

Not indexed in
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Review Summary



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(247) IEEE Access	(17) Communications in Statistics - ...
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Dr. G.S. David Sam Jayakumar is an Associate Professor in Jamal Institute of Management, Jamal Mohamed college, Trichy, Tamil Nadu, India. He is a Quant and a specialist in handling more than 40 mathematical and statistical softwares. At present, he is doing research in probability distributions and multivariate analysis. He Published nearly 95 papers in various indexed journals and he is also Peer reviewed 256 papers in many reputed Journals like IEEE Access and so on. Mail: gsds@jmc.edu

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January 2021 - Present

Professor (Associate) · Department of Management Studies

Dr. G.S. David Sam Jayakumar is a Associate Professor in Jamal Institute of Management, Jamal Mohamed college, Trichy, Tamil Nadu, India. He is having more than 15 Years of Teaching, research experience and Headed as a Resource Person for many Workshops on Research Methodology and data analytics. He completed his doctorate in Commerce from Bharathidasan University He has completed his M.Com. from Bharathidasan University, Tiruchirappalli. and M.B.A. from Madurai Kamarajar University, Madurai. He i

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