CURRICULAM VITAE

Name : D. Senthilkumar

Date of Birth : 01.04.1968

Current Affiliation : Associate Professor

Government Arts College (Autonomous),

Coimbatore-18,

Tamil Nadu, India.

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***Education*:**

- Ph.D. in Mathematics, Government Arts College Coimbatore, Bharathiar University, Coimbatore, Tamil Nadu, India. December 2005.
  Thesis Advisor: Dr.S.Panayappan.
  Thesis Title: "Some Classes of composition operator on L^2 spaces".
- M.Phil in Mathematics, Government Arts College Coimbatore, Bharathiar University, Coimbatore, Tamil Nadu, India. June 1996.
  Thesis Advisor: Dr.P.K.Chenniappan.
  Thesis Title: " On Queuing and Inventory"
- M.Sc in Mathematics, Government Arts College Coimbatore, Bharathiar University, Coimbatore, Tamil Nadu, India. May 1991.
- M.Ed, Annamalai University, Chidambaram, Tamil Nadu, India. May 1994.
- P.G.D.O.R.,(Operation Research) Pondichery University, Pondichery.
- P.G.D.C.A.,(Computer Applications), Bharathiar University, Coimbatore-641046.

Research Interests

- Functional Analysis.
- Operator Theory.
- Operator Algebras.
- Function Spaces.
- Frame Theory.

Professional Experience

- Assistant professor, Post Graduate and Research Department of Mathematics, Government Arts College, Coimbatore, 26 December 2007 to Till Date.

- Senior Lecturer, Department of Mathematics, Sri Ramakrishna Engineering College, Coimbatore, 23 September 1996to 20 December 2007.

- Lecturer, Department of Mathematics, Tamilnadu College of Engineering, Coimbatore, 24 August 1992 to 20 September 1996.

Teaching Experience

- Government Arts College: Operator Theory, Real Analysis II, Abstract Algebra, Mathematical Statistics, Basic Mathematics, Allied Mathematics.

- Sri Ramakrishna Engineering College and Tamilnadu College of Engineering: Probability and Statistics, Probability and Queuing Theory, Random Process, Discrete Mathematics, Operation Research, Numerical Methods and Engineering Mathematics I,II,III,IV.

Research Publications

2002

1. D.Senthilkumar and S.Panayappan, K-Hyponormal composition operators, ActaCiencia India, Vol.XXVIII M, No.4, 2002, 60-610.

2. D.Senthilkumar and S.Panayappan, Parahyponormal and M^*-Paranormal composition operators,Acta Ciencia India, Vol.XXVIII M, No.4, 607-610.

2003

3. D.Senthilkumar and S.Panayappan,Spectral Properties of p-hyponormal composition operators,Far East Journal of Mathematical Sciences, 9(3), 2003, 287-292.

2004

4. D.Senthilkumar and S.Panayappan, Class A composition operators, Bulletin of Calcutta Mathematical Society, 96(1), 2004, 33-36.

2005

5. D.Senthilkumar and K.Thirugnanasambandam, Some classes of Weighted Composition Operators, International Journal of Mathematical Sciences, Vol. 4, No 1, 2005, 111-116.

2008

6. D.Senthilkumar, S.Panayappanand K.Thirugnanasambandam,Composition operators of class Q, Far East Journal of Mathematical Sciences, Vol. 28, (1), 2008, 241 – 248.

7. D.Senthilkumar, S.Panayappan and R.Mohanraj, M – Quasihyponormal Composition Operators on Weighted Hardy Spaces, International Journal of Mathematical Analysis, Vol. 2, No. 24, (2008), 1163 – 1170.

2009

8. D.Senthilkumar,S.Panayappan and K.Thirugnanasambandam, A note on Powers of p – hyponormal and Product of Quasinormal Composition Operators, International Journal of Mathematical Analysis, Vol. 3, No. 1, 2009, 49 – 54.

9. D.Senthilkumar and K.Thirugnanasambandam, Class A Weighted Composition Operators,Scientia Magna, Vol. 5, (2009), No. 1, 44 – 46.

2010

10. D.Senthilkumar and T.Prasad, Composition Operators of Class Q*, International Journal of Mathematical Analysis, Vol. 4 (2010), No. 21, 1035 – 1040.

11. D.Senthilkumar andT.Prasad, M class Q Composition Operators, Scientia Magna, Vol.6, (2010), No. 1, 25 – 30.

12. D.Senthilkumar andT.Prasad, Riesz Projection and Weyl's theorem for Hereditarily Absolute – (p, r) – Paranormal Operators, Bulletin of Mathematical Analysis and Applications, Volume 2, Issue 3, Pages 100 – 108.

13. D.Senthilkumar andS.M.Sherin Joy, Weyl type theorems for (α, β) - normal operators, Scientia Magna, Vol. 6, (2010), No. 2, 45 – 51.

14. D.Senthilkumar,D.Kiruthika and P.MaheswariNaik, $\approx$ - Aluthge transformation and adjoint of $*$ - Aluthge transformation, Scientia Magna, Vol. 6 (2010), No. 2, 59 – 66.

15. D.Senthilkumar,K.Thirugnanasambandam and R.Mohanraj, M – Paranormal and $*$ - Paranormal Composition Operators on Weighted Hardy Space, Int. J. Contemp. Math. Sciences, Vol. 5, 2010, No. 56, 2793 – 2799.

16. D.Senthilkumar andP.Chandrakala, Weighted Composition Operator and Dynamical System on Weighted Function Spaces, Far East Journal of Mathematical Sciences (FJMS), Volume 42, Number 2, 2010, 281 – 288.

17. D.Senthilkumar andT.Prasad, Weyl's theorem for algebraically hereditarily absolute – (p, r) – paranormal operators, Internat. J. Functional Analysis, Operator theory & applications, Vol. 2, No. 2, (2010), 103 – 113.

18. D.Senthilkumar and S.M. Sherin Joy, Composition operators of ($\alpha\beta$) - normal operators, Internat. J. Functional Analysis, Operator theory & applications, Vol. 2, No. 2, (2010), 125 – 132.

2011

19. D.Senthilkumar,S.Panayappan and R.Mohanraj, Composition operators of class $(M,K)_N$.International Journal of Math. Sci.&Engg. Appls.(IJMSEA), Vol.5, No.1,2011,119-124.

20. D.Senthilkumar,S.Panayappan and R.Mohanraj,Weighted Composition operators of class $(M,K)_N$, International J. of Math. Sci. &Engg. Appls. (IJMSEA Vol. 5, No. 1, 2011, 259 – 264.

21. D.Senthilkumar andP.MaheswariNaik, Weyl's theorem for algebraically absolute – (p,r) – paranormal operators, Banach J. Math. Anal., 5(2011), NO. 1, 29 – 37.

22. D.Senthilkumar, S.M. Sherin Joy and T.Prasasd, On generalised class Q* operators, IJAM, Vol 24, No. 1, (2011), 81 - 87.

23. D.Senthilkumar and P.MaheswariNaik, Absolute – (p, r) – paranormal operators, IJMSEA, Vol. 5, No. III (May 2011), 311 – 322.

24. D.Senthilkumar, P.MaheswariNaik and D.Kiruthika, Quasi class Q* composition operators, IJMSEA, Vol. 5, No. IV, (July 2011), 1 - 9.

25. D.Senthilkumar, S.M. Sherin Joy and P.MaheswariNaik, Weyl type theorems and composition operators for p – posinormal operators, accepted in International J. of Math. And Computaion, vol. 13, (2011), 14 – 25.

26. D.Senthilkumar and P.MaheswariNaik, Algebraically absolute – (p,r)– paranormal operators, IJAM, Vol. 24, No. 3, (2011), 349 – 360.

27. D.Senthilkumar,P.MaheswariNaik and R.Shanthi, Weighted composition of N – class A(k) operators, IJAM., Vol. 24, No. 6, 2011, 935 – 942.

28. D.Senthilkumar,T.Prasad and M.Kumaresan, N – Class A composition operators, International Journal of Math. Archive. 2 (12), 2011, 2561 – 2564.

29. D.Senthilkumar and P.Chandrakala, Composition operator and weighted composition operator on weighted spaces of analytic functions, International Journal of Math. Archive. 2 (12), 2011, 2543 – 2548

2012

30. D.Senthilkumar,T.Prasasd and S.M. Sherin Joy, Spectral Properties of class A composition operators, FJMS.,Vol 61, No. 2, 2012, 231 – 238.

31. D.Senthilkumar,P.MaheswariNaik and R.Shanthi , k – quasi – normal operators, International J. of Math. And Computation. Vol. 15, No. 2, (2012), 99 – 105.

32. D.Senthilkumar, P.MaheswariNaik and R.Shanthi, Weighted composition of k – quasi – paranormal operators, International Journal of Math. Archive. 3(2), 2012, 739 - 746.

33. D.Senthilkumar, S.Panayappan and D.Kiruthika, Weyl's theorem for Algebraically class A(k) operators, International Mathematical Forum, Vol. 7, 2012, No. 10, 469 – 476.

34. D.Senthilkumar and D.Kiruthika, Weyl's theorem for algebraically class A(s, t) operators, J. of Mathematics and Statistics, 8(1), 2012, 150 – 153.

35. D.Senthilkumar and P.Chandrakala, Operators and Dynamical system in Measurable function spaces, Global Journal of Mathematical Sciences: Theory and Practical, Vol. 4, No. 2 (2012), 107 – 114.

36. D.Senthilkumar, P.MaheswariNaik and R.Shanthi, Weighted composition of quasi – paranormal operators, Far East Journal of Mathematical Sciences(FJMS) Vol 72, No.2, 2012, 369-383.

37. D.Senthilkumar,P.MaheswariNaik and R.Shanthi, Composition of Absolute-(p,r)-Paranormal and p-Paranormal operators, Far East Journal of Mathematical Sciences(FJMS) Vol 68, No.2, 2012, 161-173.

38. D.SenthilkumarA.Sekar and C.V.Seshaiah, Browder and a –Browder Theorem for k-Quasi-*- Class a operators, European Journal of Scientific Research, Vol. 84,No.4, 2012, 552-557.
39. D.Senthilkumar,A.Sekar and C.V.Seshaiah, Isolated Points of Spctrum for Quasi-*-Class A Operators, Applied Mathematical Sciences, Vol. 6, 2012, No.136, 6777-6786.

40. D.Senthilkumar,A.Sekar,c.V.Seshaiah and P.MaheswariNaik, Weyl's Theorem for Algebraically k-Quasi-*-Class A Operators, International J. of Math. Sci. &Engg. Appls.(IJMSEA) Vol. 6, No. VI, (2012), 93 – 100.

41. D.SenthilkumarA.Sekar and c.V.Seshaiah and P.MaheswariNaik, Spectral Continuity: (p,k)- Quasihyponormal and k-Quasi-*-Class A Operators, Wulfenia Journal, Vol 19, No.10, 2012, 133-143.

42. D.SenthilkumarP.MaheswariNaik and N.Sivakumar, Generalized Weyl's Theorem for Algebraically k-Quasi-Paaranormal Operators, Journal of the Chungcheong Mathematical Society, Vol.25, No.4, 2012,655-668.

43. D.SenthilkumarS.M.Sherin Joy, On Totally (α, β)- Normal Operators, Far East Journal of Mathematical Sciences(FJMS) Vol 71, No.1, 2012, 151-167.

2013

44. D.SenthilkumarR.Santhi , Composition of p-(α, β)- Normal Operators, International J. of Math. Sci. & Engg. Appls. (IJMSEA) Vol.7, No.V, 2013, 117-122.

45. D.Senthilkumar,A.Sekar, C.V.Seshaiah and P.MaheswariNaik ,Weyl Type Theorem for Quasi-*-Class A Operators, International J. of Math. Sci. &Engg. Appls. (IJMSEA) Vol. 7, No. 1, 2013, 277-288.

46. D.Senthilkumar,A.Sekar, C.V.Seshaiah and P.MaheswariNaik , Weyl Type Theorem and Spectrum for k-Quasi-*-Class A Operators, Far East Journal of Mathematical Sciences (FJMS), Volume 75,Number 2, 2013, 273-293.

47. D.SenthilkumarN.Sivakumar and P.MaheswariNaik, Spectral continuity (p,k)-Quasihyponormal and k-Quasi-Paranormal Operators, International J. of Math. Sci. &Engg. Appls. (IJMSEA) Vol. 7, No.IV, 2013, 243-252.

48. D.SenthilkumarN.Sivakumar and P.MaheswariNaik ,Weyl Type Theorem for k-Quasi-Paranormal Operators,International Journal of Mathematical Archive-4(6), 2013, 256-266.

49. D.SenthilkumarN.Sivakumar and P.MaheswariNaik ,Generalized Weyl's Theorems for Perturbations of Algebraically k-Quasi-Paranormal Operators, Global Journal of Pure And Applied Mathematics, Vol. 9, No.3, 2013, 265-276.

50. D.SenthilkumarP.Chandrakala and T.Prasad , Tensor Product Operators Inducce Dynamical System On Weighted Locally Convex Space, Jordan Journal of Mathematics and Statistics (JJIMS), 6(3), 2013, 169-181.

51. D.SenthilkumarD.Kiruthika , Spectral Continuity of (p,k)-Quasiposinormal Operator and (p,k)-Quasihyponormal Operator, International Journal of Applied Mathematics, Vol 26, No.5, 2013, 565-573.

52. D.SenthilkumarP.MaheswariNaik and D.Kiruthika ,Weyl Type Theorem and Spectrum for (p,k)-Quasiposinormal operators, BanachJ.Math. Anal. 7, 2013 No.2, 30-41.

2014

53. D.SenthilkumarR.Santhi , Spectral continuity (p,k)- Quasihyponormal and totally p-(α,β)-normal operators, Journal of Advances in Mathematics, Vol 8, No 3, 2014. 1586-1596.

54. D.SenthilkumarR.Santhi,On p-(α,β)-Normal operators, Applied Mathematical Sciences, Vol 8, No. 41, 201, 2041-2052.

55. D.Senthilkumar, P.Chandrakala , Tensor Sum and Dynamical Systems, ActaMathematicaScientia, 34B(5), 2014, 1-12.

2015

56. D.Senthilkumar, S.Shylaja,Aluthge Transformation on N-class A(k) Operators, Mathematical Sciences International Research Journal, Vol 4, Issue 2, (2015).

57. D.Senthilkumar, R.Murugan, Aluthge Transformation of Powers of N-class A_k Operators, Mathematical Sciences International Research Journal, Vol 4, Issue 2, (2015).

58. D.Senthilkumar, S.Shylaja,* - Aluthge Transformation and Adjoint of * - Aluthge Transformation of N-class A(k) Operators, Mathematical Sciences International Research Journal, Vol 5, Spl Issue, (2015).

59. D.Senthilkumar, R.Murugan,* - Aluthge Transformation of Powers of N-class A_k Operators, Mathematical Sciences International Research Journal, Vol 5, Spl Issue, (2015).

2016

60. D.Senthilkumar, S.Shylaja,(α, β)-Normal Weighted Composition Operator, International Journal of Applied Engineering Research, Vol 8, Spl Issue 2015, No.1 (2016).

61. D.Senthilkumar, R.Murugan, K – Frame operators in Hilbert Space, International Journal of Applied Engineering Research, Vol 8, Spl Issue 2015, No.1 (2016).

62. D.Senthilkumar, R.Murugan, Weighted Composition Frame operators in Hilbert Space, International Journal of Applied Engineering Research, Vol 11, No.1 (2016), Pg. no. (358-362).

63. D.Senthilkumar, S.Shylaja,Aluthge Transformation and * - Aluthge Transformation of Powers N-class A(k) operators, International Journal of Pure and Applied Mathematics, Vol 106, No.8, 2016, 53-58.

64. D.Senthilkumar, R.Murugan, Aluthge Transformation of N-class A_k operators, International Journal of Pure and Applied Mathematics, Vol 106, No.8, 2016, 27-31.

65. D.Senthilkumar, S.Shylaja,Weyl and weyl Type Theorem for M – Quasi N- classA(k) Operators, Global Journal of Pure and Apllied Mathematics, Vol 12, No. 2, 2016, 1601-1612.

66. D.Senthilkumar, S.Parvatham, Hermitian Weighted composition operators on weighted hardy spaces, Advanced Mathematics: Theory and Applications, chapter II, 9-16.

2017

67. D.Senthilkumar, R.Murugan,Weyl's theorem for m-quasi N – class A_k operators, Scientia Magna, Vol. 12, No 1(2017), 32-45.

68. D.Senthilkumar, R.Murugan,Weyl's theorem for quasi N – class A_k operators, Global Journal of Pure and Applied Mathematics,Vol.13, No. 3(2017), 875-884.

69. D.Senthilkumar, S.Parvatham, Spectral properties of k-quasi * parahyponormal operators, Journal of Informatics and Mathematical Sciences, Vol. 9, No. 3(2017).

70. D.Senthilkumar, S.Parvatham, Some properties of n - class Q operators, International Journal of Pure and Applied Mathematics, Vol.117, No. 11(2017), 53-59.

71. D.Senthilkumar, S.Parvatham, Some properties of *- n - class Q operators, International Journal of Pure and Applied Mathematics, Vol.117, No. 11(2017), 129-135.

2018

72. D.Senthilkumar, A.Sakthivel, Fuglede Putnam Theorem on Class p-wA(s,t) operators, Int. J. Math. And Appl., 6(1-C)(2018), 505-508.

73. D.Senthilkumar, J.Meena, Generalized k quasihyponormal Composition operators on Weighted Hardy Space, Int. J. Math. And Appl., 6(1-D)(2018), 791-800.

74. D.Senthilkumar, K.Sathiyamoorthi, N-normal and N-quasinormal Composition and Weighted composition operators on $L^2(\mu)$, Iaetsd Journal for advanced research in applied sciences, volume 5, issue 3(2018), 276-281.

75. D.Senthilkumar, S.Parvatham, Aluthge transformation of quasi -n- class Q and quasi-n class Q* operators, European Journal of Pure and Applied Mathematics, Vol.11, No. 4(2018), 1108-1129.

76. D.Senthilkumar, K.Sathiyamoorthi, (k,N)-quasinormal Composition and Weighted composition operators on L^2Space, Mathematical Sciences International Research Journal, volume 7, issue 2(2018), 498-503.

2019

77. D.Senthilkumar and P.Tamilselvi, Weighted composition of m-Quasi k-Paranormal operators, Inter. Journal of Math. and its Appl., Vol.7, No. 1(2019), 1-8.

78. D. Senthilkumar and N. Revathi, Quasi-P normal and Quasi-n-P normal composition, Weighted composition and Composite Multiplication operators, International Journal of Scientific and Engineering Research, Vol.10, Issue 1(2019), ISSN: 951-954.

79. D. Senthilkumar and P. Tamilselvi, Adjoint of Aluthge Transformation andAdjoint of * - Aluthge Transformation of$m$-Quasi k-Paranormal operators, International Journal of Basic and Applied Research, Vol.9, No. 2(2019), 53-61.

80. D.Senthilkumar, S.Parvatham,Weyl's Theorem for Class Q and k - Quasi Class QOperators, The Australian journal of Mathematical Analysis and Applications, Vol 16, No.2(2019), Ar 17, 1-11.

81. S.Parvatham, D.Senthilkumar, Aluthge transformation of n - class Q and n class Q* operators, Journal of Emerging Technologies and Innovative Research, Vol. 6, No. 6 (2019), 467-478.

82. S.Parvatham, D.Senthilkumar, Aluthge transformation of (n,k) quasi class Q and (n,k) quasi class Q* operators, International Journal of Engineering Development And Research, Vol. 7, No. 3(2019), 647-662.

83. D.Senthilkumar, S.Shylaja,Weyls theorem for N-class A(k) operators and Algebraically N-class A(k)Operators, CikitusiJournal for Multidisciplinary Research, Vol6, No.6, 2019, 554-569.

2020

84. D. Senthilkumar, Ahmed Bachir, Nawal Ali Sayyaf, A Fuglede Putnum Property for N-Class A(k) Operator, AIMS Mathematics, 5(6), (2020), Pg. No.7458-7466.

85. D. Senthilkumar, S. Parvatham, Spectral Properties of k-Quasi Parahyponormal Operators, International Journal of Mathematics Trends and Technology, Vol 66, Issue 7, (2020), Pg. no. 73-76.

2021

86. D. Senthilkumar, S. Usha, Browders theorem and Property (Sab), Journal of Hauzhong University of Science and Technology,Vol 50, Issue 4, (2021).

87. D. Senthilkumar, S. Usha, G Inverse of Lower Triangular Block Operator Matrix, Journal of Emerging Technologies and Innovative Research, Vol 8, Issue 8, Pg. No. 125-128, (2021).

2022

88. D. Senthilkumar, S. Tharani, Quasi- (ζ ,η)- normal composition operator, Advance engineering science, Vol 54, Issue 8, Pg. No. 2693-2703 (2022).

89. D. Senthilkumar, K. Sathiyamoorthi, Weighted Composition, Composite Multiplication Operators of (℘,ɾ,ϱ)- Paranormal and (℘,ɾ,ϱ)-*- Paranormal Operators on Weighted Hardy space, Advance engineering science, Vol 54, Issue 8, Pg. No. 3163-3171 (2022).

90. D. Senthilkumar, K. Sathiyamoorthi, Aluthge transformation of (℘,ɾ,ϱ)- Paranormal and (℘,ɾ,ϱ)-*- Paranormal Operators, Advanced in Nonlinear Variational Inequalities, Vol 27, No.3 (2024), 457-461.

91. D. Senthilkumar, K. Sathiyamoorthi, Weyl's Theorem for Algebraically-(℘,ɾ,ϱ)-Paranormal and Algebraically-(℘,ɾ,ϱ)-*- Paranormal Operators, Asian Research Journal of Mathematics, Vol 20, Issue 9 (2024), 26-31.

2025

92. D. Senthilkumar, S. Tharani, Fuglede Putnam's Theorem for Quasi- (ζ,η)- normal operators, Advanced in Nonlinear Variational Inequalities, Vol 28, No.1 (2025), 179-183.

93. V. Mallika and D. Senthilkumar, Weyl's Theorem for Algebraically M^* Quasi Paranormal Operators, Utilitas Mathematica, Vol 122, No. 1, Pg. No. 2431-2441 (2025).

94. V. Mallika and D. Senthilkumar, $M*$ Quasi Paranormal Composition Operators, Advance engineering science, Vol 57, Issue 02, Pg. No. 73 - 78 (2025).

Mathematical Reviews

2019

1. **MR3986999** Cho, Muneo; Sid Ahmed, Ould Ahmed Mahmoud, (A,m)-symmetric commuting tuples of operators on a Hilbert space, *Math. Inequal. Appl.*, **22** (2019), no. 3, 931-947.
2. **MR3958786** Jeridi, N.; Rabaoui, R., On (A,m)-symmetric operators in a Hilbert space, *Results Math.*, **74** (2019), no. 3, Paper No. 124, 33.
3. **MR3978681** Rashid, M. H. M., Subscalarity of k-quasi-class A operators, *Methods Funct. Anal. Topology*, **25** (2019), no. 2, 177-188.
4. **MR3942405** Shen, Junli; Ji, Guoxing, Property (t) and perturbations, *Rev. R. Acad. Cienc. Exactas Fís. Nat. Ser. A Mat., RACSAM*, **113** (2019), no. 2, 1417-1427.

2020

5. **MR4118599** Abdelali, Zine El Abidine, On the local spectral properties of the left multiplication operators, *Oper. Matrices*, **14** (2020), no. 2, 333-349.
6. **MR4078150** Gallardo-Gutiérrez, Eva A.; Partington, Jonathan R.; Seco, Daniel, On the wandering property in Dirichlet spaces, *Integral Equations Operator Theory*, **92** (2020), no. 2, Paper No. 16, 11.
7. **MR4042953** Garbouj, Zied; Skhiri, Haïkel, Semi-generalized partial isometries, *Results Math.*, **75** (2020), no. 1, Paper No. 15, 25.
8. **MR4012385** Niazi Moghani, Zahra; Khanehgir, Mahnaz, Solutions to some systems of adjointable operator equations over Hilbert C^*-modules, *Tbilisi Math. J.*, **12** (2019), no. 3, 93-107.

2021

9. **MR4194218** Liu, Junfeng; Li, Songxiao, On invariant subspaces of sub decomposable operators, *Bull. Belg. Math. Soc. Simon Stevin*, **27** (2020), no. 5, 697-709.
10. **MR4166765** Benhida, Chafiq; Budzyński, Piotr; Trepkowski, Jacek Aluthge transforms of unbounded weighted composition operators in L^2-spaces. *Math. Nachr.* **293** (2020), no. 10, 1888-1910.
11. **MR4129605** Kitover, Arkady; Orhon, Mehmet, Spectrum of weighted composition operators part V: spectrum and essential spectra of weighted rotation-like operators, *Positivit,y* **24** (2020), no. 4, 973-015.

2023

12. **MR4617717** Benabdi, El Hassan; Chraibi, Mohamed Kaadoud; Baghdad, Abderrahim, Maximal numerical range of the bimultiplication $M_{2,A,B}$, *Oper. Matrices* **17** (2023), no. 2, 317-325.

13. **MR4561447** Ould Beiba, El Moctar; Mahmoud, Sid Ahmed Ould Ahmed, On joint posinormality of operators, *Linear Multilinear Algebra,* **70** (2022), no. 19, 4819-4834.

2024

14. **MR4745749** Volberg, Alexander; Zhang, Haonan, Noncommutative Bohnenblust-Hille inequalities, *Math. Ann.,* **389** (2024), no. 2, 1657-1676.
15. **MR4696966** Gil', Michael Bounds for similarity condition numbers of unbounded operators. *Exploring mathematical analysis, approximation theory, and optimization-270 years since A.-M. Legendre's birth,* 101-130, Springer Optim. Appl., 207, *Springer, Cham,* [2023], ©2023.
16. **MR4686726** Jo, Munsun; Ko, Eungil; Lee, Ji Eun, Square roots of complex symmetric operators, *Linear Multilinear Algebra,* **71** (2023), no. 18, 3013-3024.
17. **MR4638963** Wang, Hua; Wu, Jingsong; Huang, Junjie, On the solution of nonlinear operator equations and the invariant subspace, *Adv. Oper. Theory,* **8** (2023), no. 4, Paper No. 64, 10.

Invited Lectures and Conference Presentations

INTERNATIONAL

- Generalised Althuge Transformation On P – Quasihyponormal Operators, August 12 - 14 – 2001 in the International Conference on Industrial Mathematics 2001, conducted by the Department of Mathematics, Indian Institute of Technology Madras, Chennai – 600036.

NATIONAL

- K – Hyponormal Composition Operators, December 27 & 28, 2001 in the National Conference on Mathematical and Computational Models NCMCM 2001 conducted by the Departmental of mathematics and Computer Applications, PSG College of Technology, Coimbatore – 641 004.

- Class A Composition Operators, 26th March 2003 in the UGC Sponsored one day Seminar on Operator theory and stochastic Models conducted by the Department of Mathematics, Government Arts College (Autonomous) Coimbatore 18.

- Some classes of weighted Composition Operators, December 22, 2000 in the one – day symposium on Mathematical Methods and Applications, Conducted by the Department of Mathematics. Indian Institute of Technology Madras, Chennai – 600036.

Orientation, Refresher Programme:

- Participated in the Orientation Programme conducted by UGC – Academic staff college, University of Madras from 26.12.2007 to 24.10.2008.

- Participated in the Refresher course in Human Rights (multidisciplinary conducted by UGC – Academic staff college, Bharathiar University, Coimbatore from 06.10.2010 to 26.10.2010.

- Participated in the Refresher course in Applied Mathematics and Statistics conducted by UGC – Academic staff college, Bharathiar University, Coimbatore from 15.09.2016 to 05.10.2016.

- Completed the SWAYAM ARPIT online Refresher course "Curriculum Design and E-Content Development" during 2019.

- Participated in the Refresher course for Teacher Education(ID), conducted by UGC – Human Resource Development Centre, Bharathiar University, Coimbatore from 22.012020 to 04.02.2020.

- Completed the Two Weeks Faculty Development Programme on MANAGING ONLINE CLASSES and CO-CREATING MOOCS, Teaching Learning Centre Ramanujan College, University of Delhi from 20.04.2020 to 06.04.2020.

- Completed the Two Weeks Faculty Development Programme on Refresher course in APPLICABLE MATHEMATICS, teaching learning centre Ramanujan College, University of Delhi in collaboration with Ministry of education, Sri Jayachamarajendra College of Engineering (SJCE), JSS Science and Technology University (USS s& TU), Mysur from 26.07.2022 to 18.08.2022.

- Participated in the UGC Sponsored online refresher course in Social Sciences(Multidisciplinary) conducted by the UGC -Human Resource Development Centre, Bharathiar University held from 07.10.2022 to 20.10.2022.

Seminar/Conference/Workshop attended

1. Participated in the workshop on "Differential Equations and Dynamical Systems" at IIT, Madras (25^{th} November to 5^{th} December 1998).

2. Participated in the National Seminar on "Recent Developments in Applied Mathematics" at Bharathiar University, Coimbatore.(February 24 & 25, 2000).

3. Participated in the U.G.C Sponsored state level conference on "Mathematical In

Computers" at PSG College of Arts and Science, Coimbatore.(March 21 & 22, 2000)

4. Attended the AICTE-ISTE short term course on "Fuzzy Sets and Fuzzy Logic" organized by department of Mathematics, Kongu Engineering College, Perundurai, Erode- 638 052, (09.11.2000 to 22.11.2000).

5. Participated in the two day national seminar on "Mathematics – YTOTOM" conducte by the department of mathematics, Nirmala college for women, Coimbatore- 641 018(October 4 & 5, 2001).

6. Participated in the one day seminar on "Discrete Analysis" Conducted by the Department of mathematics, PSGR KRISHNAMMAL College for Women, Coimbatore-641004(March 1, 2002).

7. Participated in "Workshop on Applications of Mathematics in Engineering and Technology" Conducted by the department of mathematics, PSNA College of Engineering and Technology, Dindigul- 642 622 (September 6, 2002).

8. Participated in the one day workshop on "Cryptography" conducted by the department of Mathematics PSGR KRISHNAMMAL College for women Coimbatore-641004 (October1, 2002).

9. Participated in UGC Sponsored National conference on operator theory conducted by the Post Graduate and Research Department of mathematics, Government Arts College Coimbatore-641 018, held during Feb 28th& Mar 1st, 2007.

10. Participated in the workshop on Recent Trends in mathematics organized by Post Graduate and Research department of mathematics. Government Arts College Coimbatore during 3rd and 4th march 2008.

11. Participated in the UGC SPONSORED National Conference on Applications of Fuzzy sets and Fuzzy logic held at Department of Mathematics, Government Arts College, Coimbatore on October 22nd and 23rd 2008.

12. Participated in the UGC sponsored National Conference on Computational Methods in continuum Mechanics during march 18,19,2009 at department of mathematics, Government Arts College Coimbatore-18.

13. Participated in the Tamilnadu State Council for Higher Education Sponsored National Seminar on Mathematical Computation on March 28th 201 at department of Mathematics, Government Arts College, Coimbatore-18.

14. Presented a paper, Aluthge transformation on N-class A(k) operators, November 26 – 28 , 2015 in the International Conference on Mathematics, Department of Mathematics, University of Kerala, Trivandrum, India.

15. Presented a paper (α, β)- Normal Weighted Composition Operator, January 5 – 7, 2016 in the International Conference on Applied Mathematical Models, Dept. of Mathematics, PSG College of Technology, Coimbatore.

16. Presented a paper *- Aluthge transformation and adjoint of *-Aluthge transformation of N-class A(k) operators, December 21-23, 2015 in the National conference on Ramanujan's Contributions and recent trends in Mathematics, Dept. of Mathematics, Madurai Kamarajar University, Madurai.

17. Presented a paper Aluthge transformation and *-Aluthge transformation of powers of N-class A(k) operators, February 20, 2016 in the one day National Conference on Mathematical modeling and fuzzy logic applications, Dept. of Mathematics RVS Technical Campus, Coimbatore.

18. Presented a paper Aluthge transformation of quasi powers of N-class A(k) operators, March 11, 2016 in the National Conference on New Frontiers in Mathematics and its applications, Dept. of Mathematics with computer applications, PSG College of Arts and Science , Coimbatore.

19. Presented a paper Aluthge Transformation on N-class A(k) Operators, November 26 -28 2015 in the International Conference on Mathematics 2015, conducted by the Department of Mathematics, University of Kerala, Tiruvendram, Kerala.

20. Presented a paper K – Frame operators in Hilbert Space, January 5-7 2016 in the International Conference on Applied Mathematical models 2016, Conducted by the Department of mathematics, PSG College of Technology, Coimbatore.

21. Presented a paper * - Aluthge Transformation of Powers of N-class A_k Operators, December 21 to 23, 2015 in the National Conference on Ramanujan's Contributions and Recent Trends in Mathematics conducted by the Department of Mathematics, Madurai Kamarajar University, Madurai.

22. Presented a paper Aluthge Transformation of Paranormal Operators, 11th March 2016 in the National Conference on New Frontiers in Mathematics and its Applications conducted by the Department of Mathematics with Computer Applications, PSG College of Arts and Science, Coimbatore.

23. Presented a paper,Hermitian weighted composition Operators on weighted Hardy Space, 30thSeptember 2016 in One day National Conference on Colloquium on

Mathematics conducted by the Department of Mathematics,RVS Technical Campus, Coimbatore.

24. Presented a paper,Spectral properties of Parahyponormal operators, 16thFebruary 2017 in International Conference on Discrete computational Mathematics conducted by the Department of Mathematics,Ghandigram rural Institute Deemed University, Dindigul.

25. Presented a paper,Spectral properties of Parahyponormal operators,22ndDecember 2016 in National level Conference on current Scenario in pure and Applied mathematics, conducted by the Department of Mathematics,Kongunadu Arts and Science College, Coimbatore.

26. Presented a paper, Some properties of n class Q and * n class Q Operators, 07thDecember 2017 in International Conference on Advances in Applicable Mathematics conducted by the Department of Mathematics, Bharathiar University, Coimbatore.

Membership in Professional Association

1. Life Member of INDIAN SOCIETY FOR TECHNICAL EDUCATION.
2. Life Member of INDIAN MATHEMATICAL SOCIETY.
3. Life Member of RAMANUJAM MATHEMATICAL SOCIETY.
4. Member of AMERICAN MATHEMATICAL SOCIETY.

Reviewer

1. Reviewer in AMERICAN MATHEMATICAL SOCIETY.

M. Phil :

Name of the candidates and Title of the project:(Completed)

1) N.Jayanthi (FT)
   Date of Registration : 21.10.2008
   Date of Viva : 22.12.2009
   Title of the Dissertation : Spectral properties of w-hyponoral operators.

2) S.Revathy (FT)
   Date of Registration : 21.10.2008
   Date of Viva : 22.12.2009
   Title of the Dissertation : Spectral properties of class A operators.

3) M.Kumaresan (FT)
   Date of Registration : 07.12.2009
   Date of Viva : 03.02.2011

Title of the Dissertation : Separation of some classes of non-normal Composition Operators.

4) P.Amalajersirani (PT)
Date of Registration : 21.10.2008
Date of Viva : 01.07.2011
Title of the Dissertation : Spectral properties of log hyponormal operators.

5) M.Umarani (FT)
Date of Registration : 28.10.2010
Date of Viva : 20.07.2012
Title of the Dissertation : Fuglede- Putnam Theorem and Putnam's Inequality for quasi class (A,k) Operators.

6) R.Murugan (FT)
Date of Registration : 17.11.2011
Date of Viva : 22.01.2013
Title of the Dissertation : g-frame operators in Hilbert space

7) K.Sathiyamoorthi (FT)
Date of Registration : 10.12.2015
Date of Viva : 24.01.2017
Title of the Dissertation : A study on k quasi posinormal weighted composition operators on L^2 space.

8) M.GovindYadave (FT)
Date of Registration : 10.12.2015
Date of Viva : 22.03.2017
Title of the Dissertation : A study on some classes of paranormal and hyponormal operators.

9) K.Rohini (FT)
Date of Registration : 10.12.2015
Date of Viva : 24.08.2017
Title of the Dissertation : A study on k quasi class Q weighted composition operators on L^2 space.

10) J.Meena (FT)
Date of Registration : 09.12.2016
Date of Viva : 28.03.2018
Title of the Dissertation : Some properties of generalized k quasi hyponormal operators on weighted hardy space.

11) A.Sakthivel (FT)
Date of Registration : 09.12.2016
Date of Viva : 28.03.2018
Title of the Dissertation : A study on Fuglede-Putnam theorem for class p-w-A(s,t) operators.

12) P. Tamiselvi (FT)
Date of Registration : 01.03.2018
Date of Viva : 01.03.2019
Title of the Dissertation : Generalized m-quasi k-paranormal operators on a Hilbert space.

13) N. Revathi (FT)
Date of Registration : 01.03.2018
Date of Viva : 01.03.2019
Title of the Dissertation : A study on Quasi n-P normal operators.

14) A. Vinitha (FT)
Date of Registration : 01.03.2019
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Title of the Dissertation : A study of Generalized Absolute Square k-Paranormal Operators

Ph.D.

Completed : 10

***Name of the Completed candidate and Title of the project*:**

1) T.Prasad (FT)
Date of Registration : 01.07.2008
Date of Viva : 09.01.2012
Title of the Thesis : Spectral properties of some classes of Hilbert space operators.

2) P.MaheswariNaik (FT)
Date of Registration : 01.01.2009
Date of Viva : 21.08.2013
Title of the Thesis : Riesz projection and weyl's theorem for Invertible absolute (p,r)-Paranormal Operators.

3) S.M. Sherin Joy (FT)
Date of Registration : 01.07.2008
Date of Viva : 15.09.2014
Title of the Thesis : (α, β) − Normal Operators.

4) D.Kiruthika (FT)

Date of Registration : 01.01.2009
Date of Viva : 29.12.2014
Title of the Thesis : RieszIdempotent andweyl type theorems for (p,k)-quasi posinormal Operators.

5) P.Chandrakala (FT)

Date of Registration : 01.01.2009
Date of Viva : 21.08.2013
Title of the Thesis : Composition operator and dynamical system on weighted Function spaces.

6) R.Santhi (PT)

Date of Registration : 01.01.2009
Date of Viva : 16.10.2015
Title of the Thesis : p- (α, β) − Normal Operators.

7) R.Murugan (FT)

Date of Registration : 01.04.2014
Date of Viva : 23.01.2018
Title of the Thesis : Weyl's theorem and Fugledeputnam theorems for Some classes of Operators.

8) S.Parvatham (FT)

Date of Registration : 01.07.2016
Date of Viva : 18.12.2019
Title of the Thesis : (n,k) Quasi Class Q Operators and (n,k) Quasi Class Q* Operators.

9) S.Shylaja (FT)

Date of Registration : 01.04.2014
Date of Viva : 20.01.2020
Title of the Thesis : Weyl's theorem and Aluthge transformation for N-class A(k) Operators.

10) K. Sathiyamoorthi

Date of Registration : 01.07.2017
Date of Viva : 28.08.2025
Title of the Thesis : A Study on $(\wp \wr, \boldsymbol{\varrho})$- Paranormal and $(\wp \wr, \boldsymbol{\varrho})$*- Paranormal Operators.

Name of the candidate: (ongoing)

1. S. Usha
   Date of Registration : 01.10.2019

2. S. Tharani
   Date of Registration : 01.10.2019

3. V. Mallika
   Date of Registration : 01.12.2021