



Centre/School/Special Centre

Department: MATHEMATICS

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Personal Webpage Link :

Qualifications: M.Sc. , Ph.D.

Area of Interest/Specialization: **Nonlinear Functional Analysis, Cryptography,**

Mathematical Modelling

Experience: Teaching: 30+

Awards and Honors: NIL

Research Projects: Some Fixed Point Problems in Different Spaces and Their Possible

Applications, UGC sponsored Major Research Project, Grant No. MRMP: 42-32/2013(SR),Project

Value : Rs. 1043600.

International Collaboration/Consultancy: Research Collaborations (US, U.K., Italy,

Turkey, Romania, Yugoslavia, Serbia, South Korea, Thailand, UAE, Omman, etc.)

Best Peer Reviewed Publication (up-to 10)

01. (G. Jungck, P. P. Murthy and Y. J. Cho), *Compatible maps of type(A) and common fixed points*, Mathematica Japonica, 38(2) (1993), 381- 390.(ISSN: 0025-5513) **Citations: 362(as on date).**
02. (P.P.Murthy), **Important Tools and Possible Applications of Metric Fixed Point Theory**, Nonlinear Analysis(Science Citation Extended Journal), 44(5)(2001), 3479 -

3490. www.elsevier.nl/locate/na, www.sciencedirect.com.(ISSN: 0362-546X, **Impact Factor: 2.763** E-ISSN: 1873-5215). Ranking it 34 out of 265 in Mathematics, Applied. **Citations: 76(as on date).**
03. (P. P. Murthy and Kenan Tas), *Common fixed point theorems of Gregus type for R-weakly commuting mappings satisfying generalized contractive conditions in 2-Metric Spaces*, Hacettepe Journal of Mathematics and Statistics(Science Citation Extended Journal), Volume 38 (3) (2009), 285 – 291 (ISSN: 13035010, E-ISSN 2651-477X), **Impact factor 0.928. Citations: 49 (as on date).**
 04. (P. P. Murthy, B. Fisher and Y. J. Cho), *Common fixed points of Gregus type mappings*, Glasnik Matemacki (Science Citation Extended Journal),. 30(2)(1995), 335-341. <http://www.math.hr/glasnik>.(ISSN 0017-095X (Print), ISSN 1846-7989 (Online)), **Impact factor 0.830. Citations: 14 (as on date).**
 05. (P. P. Murthy, S. Kumar and K. Tas), *Common Fixed Points Of Self Maps Satisfying An Integral Type Contractive Condition in Fuzzy Metric Spaces*, Mathematical Communications(SCI Journal), 15(2)(2010), 521-537.(ISSN: 1331-0623),**Impact Factor: 1.075. Impact factor 1.075. Citations: 26 (as on date).**
 06. (S. N. Lal, P. P. Murthy and Y. J. Cho), *An extension of Telci, Tas and Fisher's Theorem*, Journal of the Korean Mathematical Society, (Science Citation Extended Journal),, 33(4)(1996), 891-908.(ISSN: 0304-9914(Print), 2234-3008(online)). <http://jkms.kms.or.kr/>, **Impact Factor: 0.760, Citations: 18(as on date).**
 07. (P. P. Murthy, Kenan Tas and Uma Devi Patel), *Common Fixed Point Theorems for Generalized (ϕ, Ψ) -weak contraction maps in Complete Metric Spaces*, Journal of Inequality and Applications (a Springer Open Journal) (2015: 139), 1 - 14, DOI 10.1186/s13660-015-0647-y, <http://www.journalofinequalitiesandapplications.com>, (SCI Journal). (ISSN: 1029-242X (electronic version)), Impact Factor: **0.77, Impact factor 2.491, Citations: 12 (as on date).**
 08. (P. P. Murthy, Brian Fisher and Rashmi), *Periodic Points of Rational Inequality in a Complex Valued Metric Space*, Filomat 31(7)(2017), 2143–2150, (Published by Faculty of Sciences and Mathematics, University of Nis, Serbia ~ Available at: <http://www.pmf.ni.ac.rs/filomat>), **SCI Journal(ISSN: 2406-0933), Impact Factor: 0.844, Citations: 03 (as on date).**
 09. (B. Fisher and P. P. Murthy), *Related fixed point theorems for two pairs of mappings on two metric spaces*, Kyungpook Mathematical Journal, 37(2)(1997), 343- 347. (ISSN: 0454-8124), **web of science, Impact Factor: 0.73, Citations: 39 (as on date).**
 10. (Penumurthy Parvateesam Murthy and K. N. V. V. Vara Prasad), *Weak Contraction Condition Involving Cubic Terms of $d(x, y)$ under the Fixed Point Consideration*, Hindawi Publishing Corporation, Journal of Mathematics, Volume 2013, Article ID 967045, 5 pages, <http://dx.doi.org/10.1155/2013/967045>. (ISSN: 2314-4629) (Science Citation Extended Journal) **Impact Factor: 0.971, Citations: 20 (as on date).**

Recent Books/Book Chapters/Monographs etc.: (P. P. Murthy and Rashmi), *A Coupled Coincidence Point Theorem in Multiplicative Metric Spaces*, ISBN: 978-153612104-9;978-153612085-

1(Document Type: Book Chapter) Publisher: Nova Science PublishersInc., USA, (Recent Advances in Fixed Point Theory and Applications, 1 January 2017, Pages 171-176)

Research Supervision: Total: 05 (02 awarded)

Administrative Responsibilities: Nodal Officer INCUBATIN CENTRE-GGV

Additional Information:

CONFERENCES / WORKSHOPS ORGANIZED

1. C.G. Young Scientist Congress, **Co-Convenor**, March 29 – 30, 2008.
2. International Conference on Interdisciplinary Approaches in Physical Sciences: Growing Trends and Recent Advances. Published the Abstract for this conference (Abstraction of the papers).
3. Fixed Point Theory in Probabilistic and Fuzzy Structures, Global Initiative of Academic Network (GIAN), **Coordinator**, October 23-27, 2018.
4. International Conference on Mathematical Sciences and Applications (ICMSA), **Convenor**, Feb 23-25, 2018.
5. National Mathematics Day-2018(Organized on Feb 16, 2019), **Convenor**.
6. National Mathematics Day-2021(Organized on March 28, 2022), **Convenor**.

CONFERENCES/ WORK SHOPS ATTENDED

01. Advance level workshop in Mathematics and Physics, sponsored by MAPCOST, Bhopal.
02. **Wavelets and Applications**, N.B.H.M. workshop, Department of Atomic Energy, Govt. of India, (June'1-21, 1997).
03. **VIII annual conference of Mathematical Society of Banaras Hindu University**, Varanasi, U.P. India, from Jan 22 - 23, 1993.
04. **Invited Talk: International Conference on recent developments in Mathematical Analysis with applications to Industrial problems**, Department of Mathematics, Banaras Hindu University, Varanasi, U.P.India, March 2 - 5, 1998.

05. **XIV- Annual conference of Mathematical Society of Banaras Hindu University, Varanasi, U.P.**
India, Nov 30 – Dec 01, 1998.
06. **Invited Talk: Common Fixed Points of Set-Valued Mappings, 61st Indian Mathematical Society's conference**, Department of Mathematics and Statistics, Gurukula Kangri Vishwavidyalaya, Haridwar, Dec'19-22,1998.
07. **XV- Annual Conference of Mathematically Society of Banaras Hindu University, Varanasi, U.P.**
India, Dec. 6 - 7, 1999.
08. **Invited Talk (Resource Person): A note on Common Fixed Points, National Conference of Nonlinear Analysis and Applications**, Department of Mathematics, Andhra University, Visakhapatnam, A.P. India, March 27-29, 2000.
09. **Invited Talk: The Third World Congress of Nonlinear Analysts (WCNA-2000)**, University of Catania, **Catania, Sicily, Italy** (July 19-26, 2000).
10. **Talk: Recent Trends in Metric Fixed Point Theory, 66th Annual Conference of Indian Mathematical Society, Department of Mathematics, Aurangabad University, Aurangabad, Dec 19-22, 2000.**
11. **Invited Talk: Mathematical Modelling and its Applications in Engineering and Medical Sciences, 5th Ethiopian Mathematical Society National Conference**, Addis Ababa University, **Addis Ababa, Ethiopia**, 2003.
12. **8th International Conference on Fixed Point Theory and its Applications, Chaing Mai University, Chiang Mai, Thailand** (July 16 – 22, 2007).
13. **Research Methodology in Sciences: Managing Quality in Research & Identification of Thrust Areas**, Guru Ghasids University, Bilaspur, C.G., September 29, 2007 – October 1, 2007.
14. **International Conference on Interdisciplinary Approaches in Physical Sciences: Growing Trends and Recent Advances, Jan 12 – 14, 2008.**
15. **Topological Dynamics, Differential Equations and Applications**, University of Hyderabad, Hyderabad, A.P., India, March 11 – 15, 2008.

16. **Recent Trends of Non-Commuting Maps under Fuzzy Fixed Points Considerations**, International Conference on Analysis and Applications, Aligarh Muslim University, Aligarh, India, Nov. 3 – 5, 2008.
17. **Invited Talk as a visiting Professor: Recent Trends in Fixed Point Theory and Applications**, Cankaya University, Cankaya, **Ankara, Turkey**. (web page: http://mcs.cankaya.edu.tr/seminer/seminer_en.php).
18. **Invited Talk: From Certainty to Uncertainty: In the Context of Fixed Point Theory and Applications**, *History of Mathematics: Its Role in Science and Society*, Department of Mathematics, Manipur University, Imphal, Manipur, India (December 19-21, 2008).
19. **Invited Talk: Review of Common Fixed Points for Two Pairs of Non-Compatible Maps in Different Spaces**, National Conference on Analysis and its Applications(AA-BHU-2009), Department of Mathematics, Banaras Hindu University, Varanasi-221 005, India (March 19-21, 2009).
20. **Contributory Paper: Non-Compatible Maps and Common Fixed Points in Different Spaces**, International Conference on Topology and its Applications, Department of Mathematics, Hacettepe University, **Ankara, Turkey** (July 6-11, 2009).
21. **Invited Talk: Fixed Points of Weak Contraction Mappings under Non-Compatible Maps**, The 10th International Conference on Nonlinear Functional Analysis and Applications, Masan and Chinju, **South Korea** (July 27-31, 2009).
22. **Invited Talk(Short Talk): Weak Contraction Mappings under Fixed Points Considerations**, The 25th Annual Conference of the Ramanujan Mathematical Society, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, (May 3-5, 2010)
23. **Invited Talk: Some Variants of Non-Commuting, Compatible And Non-Compatible Maps in Metric Fixed Point Theory**, National Conference on Nonlinear Analysis and Applications, Department of Mathematics, HNB Garwal Univesity, Pauri Campus, Uttarachal, June 5 – 7, 2010.
24. **Introduction to Network Science**, Indian Institute of Science, Bangalore, Aug 29 – Sept 02, 2011.
25. **Invited Talk : Recent Trends in Metric Fixed Point Theory (1970 – 2000)**, National Conference on “Recent Advances In Mathematics” December 12 – 14, 2012. R.D.U. Jabalpur (M.P.).

26. **Invited Talk : What is Mathematics and why is Mathematics?** Sector IX college, Bhilai(CG), January 22, 2013.
27. **Invited Speaker : REMARKS ON SOME RECENT FIXED POINT THEOREMS"** National Workshop on Recent Development in Mathematics and its Applications in various Fields, January 21 - 22, 2013, St. Thomas College, Bhilai(CG), Sponsored by: CGCOST, Raipur.
28. **Invited Speaker** : National conference on Education and Research Scenario of Mathematical and Computer Sciences, Jan 29 - 30, 2013, Seth Phoolchand Agrawal Smriti Mahavidhyalaya, Nawapara Nagar, Dist: Raipur(CG).
29. **Invited Speaker:** Fuzzy Sets and Fuzzy Logic, National Seminar and Workshop, Sponsored by UGC, New Delhi and C.G. COST, February 1 - , 2013.
30. **Invited Talk:** Tips on writing (/ presenting) Manuscript and Selecting Appropriate Journal, UGC-ASC, GGV, Bilaspur (CG), March 21, 2013.
31. **International Workshop:**International Workshop on Operator Theory and its Applications (IWOTA)- **IISc Bangalore**, December 2013.
32. **Key Note Address: "n- tupled coincidence point theorem in fuzzy metric spaces"**, National Conference on Emerging Trends in Mathematics and its Applications in Science and Engineering, YCCE, Nagpur (July 24 - 25, 2014).
33. Chairman for the papers presentation session: National Conference on Emerging Trends in Mathematics and its Applications in Science and Engineering, YCCE, Nagpur(July 24 - 25, 2014).
34. **Autumn School on Nonlinear Geometry of Banach Spaces and Applications**, Laboratoire de Mathématiques de Besançon , Université de Franche-Comté - UFC, October 20 - 24, 2014.
35. **Invited Speaker** : " n-tupled coincidence point theorems in Probabilistic Metric Spaces", International Conference on Geometric functional Analysis and its Applications, Laboratoire de Mathématiques de Besançon , Université de Franche-Comté - UFC , **France**, October 27 – 31, 2014.
36. **Invited Speaker:** "Periodic points of rational inequality in Complex Valued Metric Spaces", International Conference on Geometric functional Analysis and its Applications , Laboratoire de Mathématiques de Besançon, Université de Franche-Comté - UFC, **France**, October 27 – 31, 2014.

37. **Invited Speaker : Some Contractions as a tool to obtain fixed points**, ETSER-2015, National Institute of Technology Manipur, Imphal, Manipur State, December 02 - 04, 2015.
38. **Chairman** of the technical session for **Orel Presentation** at , ETSER-2015, National Institute of Technology Manipur, Imphal, Manipur State, December 02 - 04, 2015.
39. **Fixed Points of Multivalued maps under (ϕ, ψ) -contraction**, ETSER-2015, National Institute of Technology Manipur, Imphal, Manipur State, December 02 - 04, 2015.
40. **Invited Talk: Some recent results of metric fixed point theory and applicatins**, Analysis and its Applications(Under UGC-DRS(SAP-II) Programme), Department of Mathematics, Aligarh Muslim University, Aligarh(India), December 19 - 21, 2015).
41. **Invited Talk : Remarks on Some Selective Results of Recent Fixed Point Theory and Applications in Various Spaces**(UGC sponsored) 2nd National Conference on Algebra, Analysis and Fuzzy Mathematics(**NCAAFM-2016 Jalgaon**), Department of Mathematics, North Maharashtra University, Jalgaon, MS, January 29-30, 2016.
42. **Invited Talk : Some Contractions as a Tool to Obtain Fixed Points**, 24 ICFIDCAA 2016, Anand International College of Engineering, Jaipur, India(August 22-26, 2016).
43. **Invited Talk : Some Interesting Fixed Point Theorems**, Recent advances in Mathematics and Mathematical Sciences and their Applications(RAMMSA 2016), Department of Mathematics, H. N. B. Garhwal University, Campus Pauri, Pauri Garhwal(November 10-12, 2016).
44. **Invited Talk:** UGC Sponsored two days National Conference on "**Recent Advances in Mathematics and its Applications**" : Interesting Results in Metric Fixed Point Theory and Applications, Department of Mathematics, St. Joseph's College for Women(Autonomous), Visakhapatnam(AP), November 17- 18, 2016.
45. **Invited Talk : History of Mathematical Sciences : "Metric Properties of Various Spaces under Fixed Points Consideratinos"**, Department of Mathematics, National Institute of Technology Manipur, Imphal, November 18 - 20, 2016.
46. **Invited Talk: Consequences of Banach's and Jungck's Fixed Point Theorems** in the Special Session: Progress in Fixed Point Theory and Its Applications, American Mathematical Society meeting at University of Central Florida, **Orlando, FL, USA**, September 23-24, 2017.

47. **Invited Talk: What is Mathematics? How do we feel about it?**, State Level workshop on Recent Advances in Mathematics and their Applications, Govt. Kamaladevi Rathi Girls P.G. College, Rajnandgaon, December 21, 2019.
48. **Invited Talk: Recent Advances in Metric Fixed Point Theory and Applications**, Workshop on The Recent Advances in Applications of Theoretical and Computational Fixed Points, Division of Mathematics and Statistics, Faculty of Science and Technology, **Thammasat University, Thammasat, Thailand, Dec. 25-28, 2019.**
49. **Invited Talk : Genesis of Metric Fixed Point Theory**, National seminar on Parallel Computing & Optimization Techniques, MH Science College(For Women), Jabalpur February 23-24, 2019.
50. **Invited Talk: Recent Advances in Fixed Point Theory and their Applications**, Recent Advances in Mathematics and Mathematical Sciences(RAMMS – 2019), Departments of Mathematics & Statistics, St. Joseph's College for Women (Autonomous), Visakhapatnam, November' 15 - 16, 2019.
51. **Invited Talk(Key Note Speaker): Motivational Results due to Banach and Jungck in the Context of Metric Fixed Point Theory**, Webinar on “Recent Trends and Applications of Fixed Point Theory”, June 19, 2020, Department of Mathematics, Kanya Mahavidyalaya, Kharkhoda, Aff. MD University, Rohtak.
52. **Invited Speaker:** RECENT TRENDS IN MATHEMATICS, International Webinar, Department of Mathematics, Government Arts College, Udhagamandalam on 11th of July 2020.
53. **Invited Speaker: Some Remarks on Metric Fixed Point Theorems**, Recent Developments in Mathematics and its Applications, Department of Mathematics, GITAM Institute of Sciences, Recent Developments in Mathematics and its Applications on 20th June 2020
54. **Invited Talk: National Webinar, Consequences of Banach and Jungck fixed point theorems**, June 29, 2020, G. Pulla Reddy Degree & PG College, Hyderabad, Affl. Osmania University.
55. **Invited Speaker: A Review of Some Recent Results on Metric Fixed Point Theory and Applications in the Context of Various Conditions**, 27th International Conference Of International Academy of Physical Sciences (Coniaps Xxvii) on Functional And Numerical Analysis October 26-28, 2021 Organised By School of Studies In Mathematics, Pt. Ravishankar Shukla University Raipur, Chhattisgarh, India.

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Penumarthy Parvateesam Murthy

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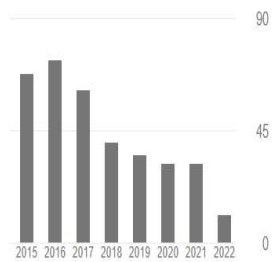
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<input type="checkbox"/> TITLE	CITED BY	YEAR
<input type="checkbox"/> Compatible mappings of type (A) and common fixed points G Jungck Math. Japon. 38, 381-390	362	1993
<input type="checkbox"/> Important tools and possible applications of metric fixed point theory PP Murthy Nonlinear Analysis: Theory, Methods & Applications 47 (5), 3479-3490	76	2001
<input type="checkbox"/> New Common Fixed Point Theorems of Greus Type for R-Weakly Commuting Mappings in 2-Metric Spaces PP Murthy, TAS Kenan Haceteppe Journal of Mathematics and Statistics 38 (3), 285-291	49	2009
<input type="checkbox"/> Compatible mappings of type (A) and common fixed point theorems PP Murthy, SS Chang, YJ Cho, BK Sharma Kyungpook Mathematical Journal 32 (2), 203-216	41	1992
<input type="checkbox"/> Common fixed points for expansive mappings in cone metric spaces Z Kadelburg, PP Murthy, S Radenovic Int. J. Math. Anal 5 (27), 1309-1319	39	2011
<input type="checkbox"/> Related fixed point theorems for two pairs of mappings on two metric spaces B Fisher, PP Murthy Kyungpook Mathematical Journal 37 (2), 343-343	39	1997
<input type="checkbox"/> Compatible mappings of type (A) and common fixed points in Menger spaces YJ Cho, PP Murthy, M Stojakovic	39	1992




Co-authors

EDIT

- Yeol-Je Cho**
Professor and Ph. D., Departme...
- Gerald Jungck**
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- Birendra Kumar Sharma**
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