
**CURRICULUM
VITÆ**

**PERSONAL**

Name: Muhammad Sarwar
Designation Assistant Professor
Date of Birth: 2 April 1982
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Address: Department of Mathematics, University of
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EDUCATION

- PhD (Mathematics) -Government College University Lahore (2006-2011)
- M.Sc (Mathematics)-University of Peshawar (2003-2004), 1st division
- BED (Education)-University of Peshawar (2005) , 1st division
- B.Sc (Mathematics) -University of Peshawar (2001-2002), 1st division
- F.Sc (Pre-Engineering) -BISE(Swat) (1999-2000), 1st division
- S.Sc (Science) -BISE (Swat) (1997-1998), 1st division

DISTINCTION

- Received young speaker award in International Conference on Mathematical Inequalities and Applications 2010.
- Received 1st position award from Govt. Post Graduate Jahanzeb College Swat in B.Sc.

TEACHING EXPERIENCE

- Assistant Professor in Mathematics in Department of Mathematics University of Malakand (Since 12 May 2012 to date)
- Assistant Professor in Mathematics in Department of Mathematics Islamia College University Peshawar (16 December 2011 - 11 May 2012)

SUBJECTS TAUGHT TO MASTER AND BS LEVEL

- Advanced Calculus
- Algebra
- Abstract Algebra
- Linear Algebra
- Real Analysis-I
- Real Analysis-II
- Functional Analysis -1
- Functional Analysis-II
- Number Theory
- General Topology
- Calculus
- Measure & Integration

SUBJECTS TAUGHT TO MPhil AND PHD LEVEL

- Advanced Real Analysis
- Metric Fixed Point Theory
- Advanced Measure Theory

ADMINISTRATIVE EXPERIENCE

- MPhil/Ph.D Coordinator, Department of Mathematics since May 2012-2015
- Member of Departmental admission committee (For MPhil/Ph.D , MSC and BS Programs , Department of Mathematics, University of Malakand.
- Member of the Students conduct and Discipline committee. University of Malakand, November, 2013 - November 2015.
- Member of the GSC committee, Department of Mathematics, University of Malakand, since December 2014-2016.
- Member of the EDC committee, University of Malakand, since December 2016-2018.

REVIEWER EXPERIENCE

- Journal of Inequalities and Applications (Springer)
- Fixed Point Theory and Applications(Springer)
- Eurasian Mathematical Journal
- Hacettepe Journal of Mathematics and Statistics
- Asian Journal of Mathematics and Computer Research
- Ghazi University Research Journal
- Journal of Non-linear Sciences and Application
- Boletim da Sociedade Paranaense de Matemática.

RESEARCH FIELDS

- Fixed Point Theory
- Non-Linear Analysis

SUPERVISOR EXPERIENCE

• MPHIL SUPERVISION

1. Mujeeb Ur Rahaman(Completed)
2. Mian Bahadur Zada(Completed)
3. Badshah-e-Rome(Completed)
4. Muhammad Shoaib(Completed)
5. Abid Khan(Completed)
6. Arshad Iqbal(Completed)
7. Mazhar Ali Khan(Completed)
8. Humaira(Completed)
9. Saddam Hussain(Completed)
10. Noor Jamal(Completed)
11. Abdullah(In Progress)
12. Abdus Salam(In Progress)
13. Sadiqullah(In Progress)

• PHD SUPERVISION

1. Mian Bahadur Zada(In Progress)
2. Muhammad Shoaib(In Progress)
3. Badshah-e-Rome(In Progress)
4. Humaira(In Progress)

PUBLICATIONS

2018

1. Humaira, **Muhammad Sarwar*** and G.N.V.Kishore, Fuzzy Fixed Point Results for Contractive Mapping with Applications, *Complexity* Volume 2018, Article ID 5303815, 12 pages **(IF: 4.6)**.
2. P.S. Kumari, J. Nantadilok and **Muhammad Sarwar** , Fixed point theorems for a class of generalized weak cyclic compatible contractions , *Fixed Point Theory and Applications* (2018) 2018:13 **(Scopus indexed)**.
3. B. Srinuvasa Rao, G.N.V.Kishore , Y. Hari Krishna and **Muhammad Sarwar**, Generalized (α, β) -Rational contractions in ordered S_b – metric spaces with applications, *IJMET*, Volume 9, Issue 3, March 2018, pp. 272–282 Article ID: IJMET_09_03_028 **(Scopus indexed)**.
4. Fixed point theorems for multivalued generalized contraction in b-metric spaces. *Journal of Mathematical Analysis*. Volume 9 Issue 2 (2018), Pages 158-166. **(Indexed in web of science)**.
5. Mujeeb Ur Rahman and **Muhammad Sarwar*** Fixed Point Theorem for Integral Type Contraction Quasi B - Metric Space, *Bulletin of The International Mathematical Virtual Institute*, Vol. 8(2018), 279-285.
6. Muhammad Shoaib **Muhammad Sarwar*** and Yongjin Li, Multi-valued tripled fixed point results via CLR property in metric spaces with application *J. Math. Computer Sci.*, 18 (2018), 163–174. **(Indexed in web of science)**.
7. Mian Bahadur Zada, **Muhammad Sarwar** and Cemil Tunc, Fixed point theorems in b -metric spaces and their applications to non-linear fractional differential and integral equations, *J. Fixed Point Theory Appl.*, 20(2018), Issue 1, Article 25 **(IF: 0.68)**.
8. Saddam Hussain, **Muhammad Sarwar*** Yongjin Li, n-tupled fixed point results with rational type contraction in b-metric spaces, *European Journal of Pure and Applied Mathematics*, Vol. 11, No. 1, 2018, 331-351, **(Indexed in web of science)**.

2017

9. Muhammad Shoaib, **Muhammad Sarwar** and Cemil Tunc ,Coupled fixed point theorem for multi-valued mapping via generalized contraction in partially ordered metric spaces with applications *Journal of Mathematical Analysis* Volume 8 Issue 5 (2017), Pages 27-39. **(Indexed in web of science)**.
10. Badshah-E-Rome and **Muhammad Sarwar***, Extension of the Banach contraction principle in multiplicative metric spaces, *MILITARY TECHNICAL COURIER*, 2017., Vol. 65, Issue 2.
11. Mujeeb Ur Rahaman, **Muhammad Sarwar** and Muhib Ur Rahman, Some Common Fixed Point Theorems on S -metric Spaces, *J. Fixed Point Theory*, 2017, 2017:2.
12. Mian Bahadur Zada , **Muhammad Sarwar*** and Panda Sumati Kumari, Common Fixed Point Results in Complex Valued Metric Spaces with $(E.A)$ and (CLR) Properties, *Advances in Analysis*, Vol. 2, No. 4, October 2017
13. Muhammad Shoaib, **Muhammad Sarwar*** Sultan Hussain and Gohar Ali, Existence and Uniqueness of Common Fixed Point for Mappings Satisfying Integral Type Contractive Conditions in G -Metric Spaces, *Matriks Sains Matematik(MSMK)* 1(1) (2017) 01-08
14. Abdullah, **Muhammad Sarwar***, Zead Mustafa, and M.M.M. Jaradat Common fixed points of (ψ, ϕ) - contraction on G -metric space using $E.A$ property, *Journal of*

Mathematical Analysis, Volume 8 Issue 4 (2017), Pages 136-146. [\(Indexed in web of science\)](#).

15. **Muhammad Sarwar**, Noor Jamal, and Yongjin Li, Coincidence point results via generalized (ψ, ϕ) -weak contractions in partial ordered b -metric spaces with application, *J. Nonlinear Sci. Appl.*, **10** (2017), 3719–3731, [\(IF: 1.34\)](#).
16. Mujeeb Ur Rahman and **Muhammad Sarwar**, Coupled fixed point theorem for generalized contraction in dislocated quasi b -metric spaces, *J. Adv. Math. Stud.* Vol. **10**(2017), No. 3, 289-294.
17. Mian Bahadur Zada and **Muhammad Sarwar***, fixed point results satisfying rational type contractive conditions in complex valued metric spaces – revisited, *Annales Mathematicae Silesianae* (2017), DOI: 10.1515/amsil-2016-0019.
18. Branislav Popović, Muhammad Shoaib and **Muhammad Sarwar**, Coupled fixed point theorems for generalized (ψ, ϕ) -weak contraction in partially ordered G -metric spaces, *J. Computational Analysis and Applications*, Vol. 23, No.5, 2017, Copyright 2017 Eudoxus Press, LLC. [\(IF: 0.799\)](#)
19. Noor Jamal, **Muhammad Sarwar*** and Mohammad Imdad, Fixed point results for generalized (ψ, ϕ) -weak contractions and its applications to system of non-linear integral equations, *Transactions of A. Razmadze Mathematical Institute.* **171**(2017), 182-194
20. Wutiphol Sintunavarat, Mian Bahadur Zada and **Muhamma Sarwar**, Common solution of Urysohn integral equations with the help of common fixed point results in complex valued metric spaces, *RACSAM*, DOI 10.1007/s13398-016-0309-z. [\(IF: 0.46\)](#)
21. Zoran Kadelburg, Stojan Radenovic and **Muhammad Sarwar**, Remarks on the paper” Coupled fixed point theorems for single valued operators in b -metric spaces. *Mathematics Interdisciplinary Research* **2**(2017), 1-8
22. P Sumati kumara, A.H. Ansari and **Muhammad Sarwar**, On b -dislocated Quasi-Metric Spaces, *International Journal of Advanced in Mathematics*, Volume 2017, Number 1, Pages 30-40, 2017.
23. Mian Bahadur Zada, **Muhammad Sarwar*** and Stojan Radenovic, Existence of Unique Common Solution to the System of Non-Linear Integral Equations Via Fixed Point Results in Incomplete Metric Spaces, *Journal of Inequalities and Applications, Journal of Inequalities and Applications* (2017) 2017:22, DOI 10.1186/s13660-016-1286-7, [\(IF: 0.630\)](#).
24. **Muhammad Sarwar**, Mian Bahadur Zada, and Saurabh Manro, Common Fixed Point Theorems for Weakly Compatible Mappings in Complex Valued Metric Spaces, *Bulletin of the International Mathematical Virtual Institute*, Vol. 7(2017), 11-21.
25. Badshah-E-Rome and **Muhammad Sarwar**, Some Fixed Point Theorems for Mappings Satisfying A General Multiplicative Contractive Condition of Integral Type, *Electronic Journal of Mathematical Analysis and Applications* Vol. 5(1) Jan. 2017, pp. 50-63.

2016

26. Muhammad Shoaib and **Muhammad Sarwar***, Multivalued Fixed Point Theorems for Generalized Contractions and Their Applications, *Journal of Mathematics*, Volume 2016, Article ID 5190718, 8 pages. [\(Indexed in web of science\)](#)
27. Mujeeb Ur Rahman **Muhammad Sarwar***, Coupled Fixed Point Theorem in Dislocated Quasi-Metric Spaces, *Communication in Nonlinear Analysis.* **2** (2016), 113-118

28. M. Abbas, H. Huang, **Muhammad Sarwar**, M. Shoaib, Fixed Point Results in Gq -Metric Spaces with W -distance, Scientific Publications of The State University of Novi Pazar, Ser. A: Appl. Math. Inform. and Mech. vol. 8, 1 (2016), 65-77.
29. Mian Bahadur Zada, **Muhammad Sarwar*** and Nayyar Mehmood, Common Fixed Point Results for Six Mappings via Integral Contractions with Applications, *International Journal of Analysis*, Volume 2016, Article ID 7480469, 13 pages. [\(Indexed in web of science\)](#)
30. Badshah-e-Rome and **Muhammad Sarwar***, Characterization Of Multiplicative Metric Completeness, *International Journal of Analysis and Applications*, Volume 10, Number 2 (2016), 90-94. [\(Indexed in web of science\)](#)
31. Abid Khan and Muhammad Sarwar, Uni-Soft Bi-Ideals and Uni-Soft Interior Ideals of Ag-groupoids, *Math. Sci. Lett.* **5**, No. 3, 271-277 (2016)
32. **Muhammad Sarwar***, Abdullah and Sayyed Inayat Ali Shah, Triple Fixed Point Theorem Satisfying Rational Type Contraction in Gb -Metric Spaces, *J. Adv. Math. Stud.* **9**(2016), No. 2, 321-330. [\(Scopus\)](#).
33. Muhammad Shoaib and **Muhammad Sarwar***, Fixed Point Theorem Satisfying weak Integral Type Contraction in Generalized Metric Spaces, *Math. Sci. Lett.* **5**, No. 3, 213-219 (2016).
34. Poom Kumum, **Muhammad Sarwar***, Mian Bahadur Zada, Fixed Point Results Satisfying Rational Type Contractive Conditions in Complex Valued Metric Spaces, *Annales Mathematicae Silesianae*, 30 (2016), 89–110.
35. **Muhammad Sarwar***, Saddam Hussain and Panada Sumati Kumari. Common coupled fixed point theorems satisfying rational type contractive conditions in b -metric spaces, *Springer Plus* (2016) 5:257, DOI 10.1186/s40064-016-1849-6. [\(IF: 0.982\)](#)
36. Mian Bahadur Zada, **Muhammad Sarwar**, Nasir Rahman and Muhammad Imdad, Common fixed point results involving contractive condition of integral type in complex valued metric spaces, *J. Nonlinear Sci. Appl.* **9** (2016), 2900- 2913. [\(IF: 1.17\)](#).
37. P. Sumati Kumari and **Muhammad Sarwar**, Some fixed point theorems in generating space of b -quasi-metric family, *Springer Plus.* (2016) 5:268, DOI 10.1186/s40064-016-1867-4, [\(IF: 0.982\)](#)
38. Branislav Z. Popovic, Muhammad Shoaib, and **Muhammad Sarwar**, Fixed Point Results Satisfying Rational Type Contraction in G -Metric Spaces, *Journal of Function Spaces*, Volume 2016, Article ID 9536765, 7 pages. [\(IF: 0.426\)](#)
39. Muhammad Shoaib, **Muhammad Sarwar**, Kmal Shah and Poom Kumum, Fixed point results and its applications to the systems of non-linear integral and differential equations of arbitrary order, *Journal of Nonlinear Science and Applications*, **9** (2016), 4949-4962. [\(IF: 1.17\)](#)
40. **Muhammad Sarwar**, Mian Bahadur Zada and Nayyar Mehmood, Common fixed point results for weakly compatible mappings under contractive conditions of integral type in complex valued metric spaces, *Transactions of A. Razmadze Mathematical Institute* **170** (2016) 91–106.
41. Mujeeb Ur Rahman, **Muhammad Sarwar** and Muhib Ur Rahaman, Fixed Point Results of Altman Integral Type Mappings in S -Metric Spaces, *International Journal of Analysis and Applications*, Volume 10, Number 1 (2016), 58-63. [\(Indexed in web of science\)](#)

42. Mujeeb Ur Rahman and **Muhammad Sarwar**, Dislocated Quasi B-Metric Space and Fixed Point Theorems, *Electronic Journal of Mathematical Analysis and Applications* Vol. 4(2) July. 2016, No. 2, pp. 16-24.
43. Mujeeb Ur Rahman and **Muhammad Sarwar** Some New Fixed Point Theorems in Dislocated Quasi-Metric Spaces, *Palestine Journal of Mathematics*, Vol.5(1)(2016) 1–6.
44. Mujeeb Ur Rahman, **Muhammad Sarwar** and Muhib Ur Rahman, Fixed Point Theorems of Gregus Type in d-Metric Spaces, *Sohag J. Math.* **3**, No. 1, 1-5 (2016)
45. Mujeeb Ur Rahman and **Muhammad Sarwar**, Coupled Fixed Point Theorem For Rational Contraction Conditions In Dislocated Quasi-Metric Space, *Palestine Journal of Mathematics* Vol. 5(2)(2016) 6–11.

2015

46. M.U. RAHMAN, **Muhammad SARWAR**, P. S. KUMARI, Common Tripled Fixed Point Theorem in Dislocated Quasi-Metric Space, *Sindh Univ. Res. Jour. (Sci. Ser.)* Vol. 47 (4) (2015). [\(Indexed in web of science\)](#)
47. **Muhammad Sarwar**, Mian Bahadur Zada and Inci M. Erhan Common fixed point theorems of integral type contraction on metric spaces and its applications to system of functional equations, . *Fixed Point Theory and Applications* (2015) 2015:217, DOI 10.1186/s13663-015-0466-3. [\(IF: 2.5\)](#)
48. Mujeeb Ur Rahman and **Muhammad Sarwar** Some Fixed Point Theorems Satisfying Contractive Conditions of Integral Type in Dislocated Quasi-MetricSpace, *Journal of Analysis & Number Theory*, **3**, No. 2, 1-6 (2015).
49. **Muhammad Sarwar** and Mujeeb Ur Rahman, Fixed point Theorems for Ciric and Generalized Contraction in b-metric spaces, *International Journal of Analysis and Applications*, **7**(1), 70-78, 2015. [\(Indexed in web of science\)](#)
50. Mujeeb Ur Rahman and **Muhammad Sarwar**, Some Fixed Point Theorems in Generalized Types of Metric Spaces, *Electronic Journal of Mathematical Analysis and Applications* 3(2) July 2015, pp. 289-296.
51. Mujeeb Ur Rahman and **Muhammad Sarwar**, Common Coupled Fixed Point and Coupled Coincidence Point Results in Dislocated Quasi-Metric Spaces, *Asian Journal of Mathematics and Computer Research*, **4**(4), 2015. 208-214.
52. Mujeeb Ur Rahman and **Muhammad Sarwar**, Some Remarks on Theorems in d-Metric and dq -Metric Spaces, *International Journal of Mathematics and Scientific Computing* VOL. 5, NO. 1, 2015. 11-13.
53. Abid Khan and **Muhammad Sarwar** Uni-Soft Ideals of Ternary Semigroups *International Journal of Mathematics and Scientific Computing* VOL. 5, NO. 1, 2015. 60-65.
54. **Muhammad Sarwar** and Mian Bahadur Zada, Common Fixed Point Theorems for Six Self-Maps Satisfying Common(E.A) and Common(CLR) Properties In Complex Valued Metric Space, *Electronic Journal of Mathematical Analysis and Applications*, **3**(1) 228-344, 2105.
55. Mujeeb Ur Rahman and **Muhammad Sarwar** Fixed Point Theorems for Expanding Mappings in Dislocated Metric Space, *Mathematical Sciences Letters*, **4**(1) 1-5, 2015.

2014

56. Alexander Meskhi, Ghulam Murtaza and **Muhammad Sarwar**, A characterization of the two-weight inequality for Riesz potentials on cones of radially decreasing functions, *Journal of Inequalities and Applications*, **2014**: 383, 2014. **(IF: 0.630)**
57. Mujeeb Ur Rahman and **Muhammad Sarwar**, A Fixed Point Theorem for Three Pairs of Mappings Satisfying Contractive Condition of Integral Type in Dislocated Metric Space, *Journal of Operators*, Article ID 750427, 5 pages, 2014.
58. Mujeeb Ur Rahman and **Muhammad Sarwar**, Generalized Fixed Point Results in Dislocate and Dislocated Quasi-Metric Spaces0, *International Journal of Mathematics and Scientific Computing*, **4(2)** 107-110, 2014.
59. Mujeeb Ur Rahman and **Muhammad Sarwar**, Fixed Point Results for Some New Type of Contraction Conditions in Dislocated Quasi-Metric Space, *International Journal of Mathematics and Scientific Computing*, **4(2)** 68-71, 2014.
60. **Muhammad Sarwar** and Mujeeb Ur Rahman, Six Maps Version for Hardy-Rogers Type Mapping in Dislocated Metric Spaces, *Proc. A. Razmadze Math. Inst.* **166**, 121-132, 2014.
61. **Muhammad Sarwar**, Ghulam Murtaza and Irshad Ahmad, Riemann-Liouville and Higher Dimensional Hardy Operators for Non-Negative Decreasing Function in $L^{p(\cdot)}$ Spaces, *Abstract and Applied Analysis*, Article ID 621857, 5 pages, 2014. **(Scopus)**
62. **Muhammad Sarwar**, Mujeeb Ur Rahman and Gohar Ali, Some fixed point results in dislocated quasi metric (dq-metric) spaces, *Journal of Inequalities and Applications*, **2014**:278, 2104. **(IF: 0.630)**
63. Mujeeb Ur Rahman and **Muhammad Sarwar**, Fixed Point Results in Dislocated Quasi Metric Spaces, *Int. Math. Forum*, **9(2014)**, 677-682.
64. **Muhammad Sarwar** and Abid Khan, On Uni-soft (Quasi) Ideals of AG-groupoids, *Applied Mathematical Sciences*, **8(12)** 589 – 600. 2014. **(Scopus)**.

2013

65. Vakhtang Kokilashvili, Alexander Meskhi and **Muhammad Sarwar**, Two-Weight Norm Estimates for Maximal And Caldero'n-Zygmund Operator in Variable Exponent Lebesgue Spaces, *Georgian Mathematical Journal*, **20** (2013) No. 3, 415-624. **(IF: 0.43)**.

2012

66. **Muhammad Sarwar** and Majid Ali, On Intuitionistic Fuzzy h-ideals in H-hemiregular Hemirings and h*-Duo Hemiring, *Eurasian Mathematical Journal*, **3** (2012), No.4, 111–136. **(Indexed in web of science)**.

2011

67. Alexander Meskhi, Ghulam Murtaza and **Muhammad Sarwar**, Weighted Criteria for One-sided Potentials wit Product Kernels on Cones of Decreasing Function, *Mathematical Inequalities and Applications*, **11(3)**693-708, 2011. **(IF: 0.45)**

2010

68. Vakhtang Kokilashvili, Alexander Meskhi and **Muhammad Sarwar**, One and Two Weight Estimates for One- sided Operators in $L^{p(\cdot)}$ Spaces, *Eurasian Mathematical Journal*, **1(1)** 73-110, 2010. **(Indexed in web of science)**.

69. Vakhtang Kokilashvili, Alexander Meskhi and **Muhammad Sarwar**, Potential Operators in Variable Exponent Lebesgue Spaces. Two-weight Estimates, *Journal of Inequalities and Application*, Article ID 329571, 27 pages, 2010, (IF: 0.630).
70. Alexander Meskhi, Ghulam Murtaza and **Muhammad Sarwar**, Two Weight Criteria for Potentials with Product Kernels on Cones of Decreasing Function, *Proc. A. Razmadze Math. Inst.*, **152** (2010), 144–153.

2008

71. Vakhtang Kokilashvili, Alexander Meskhi and **Muhammad Sarwar**, One and Two Weight Norm Estimates for One-sided Operators in $L^{p(x)}$ Spaces, *Proc. A. Razmadze Math. Inst.*, **148** (2008), 126–133

PARTICIPATION IN CONFERENCES AND WORKSHOPS

- As a participant, “05 Days Workshop on Teaching & Research” *Department of Education, University of Malakand*, held on 23-27th May 2016.
- As a participant, 02 days workshop on Computational, Complexities, Innovations & solution, *Comsats Institute of Information Technology Abbottabad*, May 9-10 2016.
- As a participant in “Indigenous On-Campus Training Workshop of Administrative Staff on “Semester by-laws” held at University of Malakand March 19th -20th 2015.
- As a Organizer, 1st National Conference on Mathematical Sciences, *Department of Mathematics, University of Malakand*, From 2-4 September 2014.
- As a presenter, 5th World Conference on 21st Century Mathematics; held 09-13 February 2011; *Abdus Salam School of Mathematical Sciences, GC University, Lahore, Pakistan*.
- As a presenter, International Conference on Mathematical Inequalities and Applications; held 07-13 March 2010; *Abdus Salam School of Mathematical Sciences, GC University, Lahore, Pakistan*.
- As a presenter, 4th World Conference on 21st Century Mathematics; held 04-08 March 2009; *Abdus Salam School of Mathematical Sciences, GC University, Lahore, Pakistan*.
- As a participant, Summer Conference in Mathematics; held 27-28 July 2009; *Lahore University of Management Sciences, Lahore, Pakistan*.
- As a participant, LUMS 2nd International Conference on Mathematics and its Applications in Information Technology; held 09-12 March 2008; *Lahore University of Management Sciences, Lahore, Pakistan*
- As a participant, 3rd International Conference on 21st Century Mathematics; held 04-07 March 2007; *Abdus Salam School of Mathematical Sciences, GC University, Lahore, Pakistan*

LINKAGES/RESEARCH COLLABORATIONS

- Prof. Stojan Redenic, Faculty of Mechanical Engineering, University of Belgrade, Kraljice Marije 16, 11 120 Beograd 35, Serbia.
- Prof. Mujahid Abbas, University of Management and Technology, Lahore, Pakistan.

- Prof. Poom Kumam, KMUTT Fixed Point Research Laboratory, Department of Mathematics, Room SCL 802 Fixed Point Laboratory, Science Laboratory Building, Faculty of Science, King Mongkuts University of Technology Thonburi (KMUTT), 126 Pracha-Uthit Road, Bang Mod, Thung Khru, Bangkok 10140, Thailand.
- Prof. Mohammad Imdad, Department of Mathematics, Aligarh Muslim University India.
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REFERENCES

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