CURRICULUM VITAE

Dr. Ajay Kumar

Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, India

E-mail: sharma.ajaykumar93@gmail.com

Contact No.: +918889361178

RESEARCH INTERESTS:

Optimization, Split Feasibility Problems, Operator Theory, Fixed Point Theory

EDUCATIONAL QUALIFICATIONS:

- ### Ph.D.

  Title of Thesis   : A Study on Iterative Algorithms for Split Feasibility Problems
  Supervisor   : Prof. Balwant Singh Thakur
  University   : Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, India
  Notification No. and Date: No./Conf./Ph.D./2025/3976, Raipur, Dated 09/01/2025

- ### M.Sc. in Mathematics

  University   : Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, India
  Duration   : 2013-2015
  Marks Obtained   : 1110
  Total Marks   : 2000
  Percentage   : 55.50%

- ### B.Sc. in Computer Science

  University   : Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, India
  Duration   : 2010-2013
  Marks Obtained   : 1149
  Total Marks   : 1800
  Percentage   : 63.83%

- **12th** (Higher Secondary)

    Board   : Chhattisgarh Board, India
    Year   : 2010
    Marks Obtained   : 433
    Total Marks   : 500
    Percentage   : 86.60%

- **10th** (High Secondary)

    Board   : Chhattisgarh Board, India
    Year   : 2008
    Marks Obtained   : 436
    Total Marks   : 600
    Percentage   : 72.63%

GRANT AND FELLOWSHIP:

- **Research Fellowship:**
    Scheme   : CSIR-UGC NET JRF
    Duration   : 2019-2024

RESEARCH PUBLICATIONS:

1. Kumar, A., Thakur, B.S. and Postolache, M. Dynamic Stepsize Iteration Process for Solving Split Common Fixed Point Problems with Applications, Mathematics and Computers in Simulation, 218, (2024), 498-511. (SCIE, IF - 4.6)

2. Tamrakar, E., Alhaqbani, S., Kumar, A., George, R., and Pathak, H.K. Some Fixed Point Results in Metric Spaces Equipped with a Graph and Their Applications, Results in Nonlinear Analysis, 7, (2024), 122-141. (Scopus)

3. Kumar, A., Thakur, B.S., Turcanu, T. and Sharma, H.K. Regularized Algorithm for the Proximal Split Feasibility Problems, UPB Scientific Bulletin, Series A, 85(4), (2023), 29-46. (SCIE, IF - 0.8)

4. Kumar, A. and Thakur, B.S. Strong Convergence Algorithm for Proximal Split Feasibility Problem, The Journal of Analysis, 32(1), (2023), 137-156. (SCOPUS, ESCI, IF - 0.8)

5. Kumar, A. and Tamrakar, E. Inertial Algorithm for Solving Split Inclusion Problem in Banach Spaces, Cubo (Temuco), 25(1), (2023), 67-88. (SCOPUS, ESCI, IF - 0.6)

6. Kumar, A. Strong Convergence Result for Split Inclusion Problems in Banach Spaces, International Journal of Nonlinear Analysis and Applications, 14(1), (2022), 2247-2263. (SCOPUS)

PAPER PRESENTED IN NATIONAL/INTERNATIONAL CONFERENCES:

1. Kumar, A. Hybrid Inertial Accelerated Technique for Optimization Problems, $19th$ Chhattisgarh Young Scientist Congress-2024, NIT Raipur (C.G.), February, 26-27, (2024).

2. Kumar, A. Strong Convergence Accelerated Methods for Optimization Problem in Hilbert Spaces, 18th Chhattisgarh Young Scientist Congress-2023, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, India, May, 3-4 (2023).

3. Kumar, A. Strong Convergence Algorithm for Proximal Split Feasibility Problem, 2nd International Conference on Nonlinear Applied Analysis & Optimization, IIT(BHU), Varanasi, Uttar Pradesh, India, December, 19-22 (2022).

4. Kumar, A. An Iterative Algorithm for Solving Split Common Fixed Point Problem in P-Uniformly Convex and Uniformly Smooth Banach Spaces, 27th International Conference of International Academy of Physical Sciences (CONIAPS XXVII) on Functional and Numerical Analysis, Pt. Ravishankar Shukla University Raipur, Chhattisgarh, India, October, 26-28 (2021).

5. Kumar, A. Viscosity Approximation Methods for the Implicit Double Midpoint Rule of Nonexpansive Mappings in CAT(0) Spaces, International Conference on Recent Trends in Analysis and Optimization, NITTR, Bhopal, Madhya Pradesh, India, November, 09-11 (2020).

TEACHING EXPERIENCE:

- **Adhoc**
  Institute   : Central Institute of Technology, Raipur, Chhattisgarh, India.
  Duration   : Aug. 2018-Jan. 2019

- **Adhoc**
  Institute   **:** Pragati College, Raipur, Chhattisgarh, India.
  Duration   : Sep. 2016-May 2017

- **<u>Guest Faculty</u>**
  Institute   **:** Center for Basic Sciences, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, India.
  Duration   : Sep. 2024-Till Date

REFERENCES:

- **Prof. Daya Ram Sahu**
  Professor at the Department of Mathematics, Banaras Hindu University, Varanasi, Uttar Pradesh, India.
  Email: drsahudr@gmail.com

- **Prof. Balwant Singh Thakur**
  Professor at School of Studies in Mathematics, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, India.
  Email: balwantst@gmail.com

- **Dr. Hemant Kumar Pathak**
  Former Professor of School of Studies in Mathematics, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, India.
  Email: hkpathak05@gmail.com

DECLARATION

All the statements in this application are true, complete, and correct to the best of my knowledge and conscience.

Dr. Ajay Kumar