

Dr. Shimpi Singh Jadon

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h-index: 10, i10-index: 11, total citations: 1323

CURRICULUM VITAE



Objective

Seeking a position to utilize my skills and research experience in R&D organization that offers professional growth while being resourceful, innovative and flexible.

Educational Qualification

Mar 2016	PhD (Applied Mathematics), IIIT : Atal Bihari Vajpayee-Indian Institute of Information Technology & Management, Gwalior, India.
Jun 2005	M.Sc. (Mathematics) with first division (75.50%), Jiwaji University, Gwalior, MP, India.
Jun 2003	B.Sc. (Mathematics) with first division (77.77%), Jiwaji University, Gwalior, MP, India.
Jun 2000	Intermediate (Mathematics) with first division (75.33%), MP Board Bhopal, MP, India.
Jun 1998	Matriculation with first division (78.8%), MP Board Bhopal, MP, India.

Research Experience (PhD)

Jan 2011– Dec 2015	Research scholar, Department of Mathematics, Atal Bihari Vajpayee-Indian Institute of Information Technology & Management, Gwalior, India.
Topic	Enhanced Artificial Bee Colony Algorithms and their Applications.
Current status	<u>Thesis awarded.</u>
Supervisors	Dr. Jagdish Chand Bansal & Dr. Ritu Tiwari.

Areas/Subjects of Interest

Complex analysis, Soft Computing Techniques, Optimization(Swarm Intelligence based algorithms), Linear Algebra, Discrete structure, Basic Statistics.

Fellowships/Awards

Jun 2017	MP SET/SLET
Jan 2013 - Dec 2015	Senior Research Fellowship (MHRD)
Jan 2011 - Dec 2012	Junior Research Fellowship (MHRD)
Mar 2006	GATE (MHRD)
Jun 2005	University Topper in M.Sc.
Jun 2003	Second Topper in B.Sc.

Teaching Experience of 10 years

Dec 2017 - Till date	Assistant Professor, Govt. Rajkiya Engineering College, Kannauj, UP, India.
Aug 2016 - Nov 2017	Assistant Professor, Amity University, Gwalior, MP, India.
Feb 2016 - Jul 2016	Assistant Professor, Vikrant Group of Institutions, Gwalior, MP, India.
Aug 2015 - Dec 2015	Visiting Faculty, Amity University, Gwalior, MP, India.
Aug 2005 - Dec 2010	Assistant Professor, Maharana Pratap College of Technology, Gwalior, MP.

Other relevant information

Guest editor	Journal of Information & Optimization Sciences (JIOS), Taylor & Francis.
Guest editor	International Journal of Swarm Intelligence (IJSI), Inderscience.
Convenor	International Conference on Emerging Trends in Technology (ETTA-2019).
Organizing Secretary	International Conference on Mathematics & Computation (ICMC-2021).
Co-Coordinator	Student Induction Program, Rajkiya Engineering College Kannauj.
Co-Coordinator	Faculty Induction Program, Rajkiya Engineering College Kannauj.
Organizing Secretary	Webinar Rajkiya Engineering College Kannauj.
Organizing Secretary	Webinar Rajkiya Engineering College Kannauj.
P C member	International Conference on Soft Computing (SocPros, RTORS, CIS-2020, ICCIS 2020, ICCCT 2021).
Life time member	Soft Computing Research Society (SCRS), India.
Member	Institution of Engineering and Technology (The IET), USA.
In-charge Library	Govt. Rajkiya Engineering College, Kannauj, UP, India.
Deputy Dean (PG)	Govt. Rajkiya Engineering College, Kannauj, UP, India.

Published/Communicated work

International Journals (Published):

1. **Shimpi Singh Jadon**, JC Bansal, R Tiwari and H Sharma, Hybrid Artificial Bee Colony algorithm with Differential Evolution, Applied Soft Computing, Elsevier, Volume 58, pp. 11-24, 2017, ISSN number: 1568-4946, **Impact factor: 6.725**, *Science citation indexed (SCI)*, DOI: 10.1016/j.asoc.2017.04.018.
2. **Shimpi Singh Jadon**, JC Bansal, R Tiwari and H Sharma, Accelerating Artificial Bee Colony with adaptive local search, Memetic Computing, Springer, Volume 7, Issue 3, pp. 215-230, 2015, ISSN number: 1865-9292, **Impact factor: 5.900**, *Science citation indexed (SCI)*, DOI: 10.1007/s12293-015-0158-x.
3. **Shimpi Singh Jadon**, JC Bansal and R Tiwari, Escalated convergent Artificial Bee Colony, Journal of Experimental & Theoretical Artificial Intelligence (Jetai), Taylor and Francis, , Volume 28, Issues 1-2, pp. 181-200, 2016, ISSN number: 1362-3079, **Impact factor: 2.340**, *Science citation indexed (SCI)*, DOI: 10.1080/0952813X.2015.1020523.
4. JC Bansal, H Sharma, **Shimpi Singh Jadon** and M Clerc, Spider Monkey Optimization algorithm for numerical optimization, Memetic Computing, Springer, Volume 6, Issues 1, pp. 31-47, 2014, ISSN number: 1865-9292, **Impact factor: 5.900**, *Science citation indexed (SCI)*, DOI: doi.org/10.1002/mma.6662.

5. B Dwivedi, BDK Patro, V Srivastava, **Shimpi Singh Jadon**, LBR-GWO: Layered based routing approach using grey wolf optimization algorithm in wireless sensor networks, *Concurrency and Computation: Practice and Experience*, Wiley Online Library, Volume , Issues , pp. e6603, 2021 ISSN number: 1532-0634, **Impact factor: 1.536**, *Science citation indexed (SCI)*, DOI: doi.org/10.1002/cpe.6603.
6. R Patel, A Shukla, **Shimpi Singh Jadon**, R Udhayakumar, A Noval increment approach for optimal control problem of fractional-order (1, 2] nonlinear systems, *Mathematical Methods in the Applied Sciences*, Wiley Online Library, Volume , Issues , pp. , 2021, ISSN number: 1099-1476, **Impact factor: 2.321**, *Science citation indexed (SCI)*, DOI: doi.org/10.1002/mma.7681.
7. R Patel, A Shukla, **Shimpi Singh Jadon**, optimal control problem for fractional stochastic non local semilinear system, *Filomat, Faculty of Sciences ad Mathematics University of Nis Serbia*, Volume , Issues , pp. , 2021, ISSN number: 2406-0933, **Impact factor: 0.844**, *Science citation indexed (SCI)*, DOI: .
8. R Patel, A Shukla, **Shimpi Singh Jadon**, Existence and optimal control problem for semilinear fractional order (1, 2] control system, *Mathematical Methods in the Applied Sciences*, Wiley Online Library, Volume , Issues , pp. , 2020, ISSN number: 1099-1476, **Impact factor: 2.321**, *Science citation indexed (SCI)*, DOI: 10.1007/s12293-013-0128-0.
9. **Shimpi Singh Jadon**, JC Bansal, R Tiwari and H Sharma, Artificial bee colony algorithm with global and local neighborhoods, *International Journal of Systems Assurance Engineering and Management (IJSA)*, Springer. Volume 9, Issues 3, pp. 589-601, 2018, ISSN number: 0976-4348, DOI: 10.1007/s13198-014-0286-6.
10. P Dass, **Shimpi Singh Jadon**, H Sharma JC Bansal and KE Nygard, Hybridisation of classical unidimensional search with ABC to improve exploitation capability, *International Journal of Artificial Intelligence and Soft Computing (IJAISC)*, Inderscience, Volume 5, Issues 2, pp. 151-164, 2015, ISSN number: 1755-4969, DOI: 10.1504/IJAISC.2015.070636.
11. JC Bansal, **Shimpi Singh Jadon**, R Tiwari, D kiran and BK Panigrahi, Optimal power flow using Artificial Bee Colony with global and local neighborhoods, *International Journal of Systems Assurance Engineering and Management (IJSA)* , Springer, Volume 8, Issues 4, pp. 2158–2169, 2017, ISSN number: 0976-4348, DOI: 10.1007/s13198-014-0321-7.
12. JC Bansal, H Sharma, **Shimpi Singh Jadon**, Artificial Bee Colony Algorithm: A Survey, *International Journal of Advanced Intelligence Paradigms (IJAIP)*, Inderscience, Volume 5, Issues 1-2, pp. 123-159, 2013, ISSN number: 1755-0394, DOI: 10.1504/IJAIP.2013.054681.
13. **Shimpi Singh Jadon**, JC Bansal, R Tiwari and H Sharma, Self adaptive position update equation in Artificial Bee Colony, *International Journal of System Assurance Engineering and Management, (IJSA)*, Springer, Volume 9, Issue 4, pp. 802810, 2018, ISSN number: 0976-4348, DOI: 10.1007/s13198-017-0655-z.

International Conference Proceedings (Published):

1. **Shimpi Singh Jadon**, JC Bansal, R Tiwari and H Sharma, Expedited Artificial Bee Colony Algorithm, *Proceedings of Third International Conference on Soft computing for problem solving (SocProS)*, *Advances in Intelligent Systems and Computing*, Springer, Volume 259, pp. 787-800, 2014, ISBN number: 978-81-322-1768-8, DOI: 10.1007/978-81-322-1768-8.68.
2. **Shimpi Singh Jadon**, H Sharma, JC Bansal and R Tiwari, Self adaptive acceleration factor in particle swarm optimization, *Proceedings of Seventh International Conference on Bio-Inspired Computing: Theories and Applications (BIC-TA)*, *Advances in Intelligent Systems and Computing*, Springer Volume 201, pp. 325-340, 2013, ISBN number: 978-81-322-1038-2, DOI: 10.1007/978-81-322-1038-2.28.
3. R Patel, A Shukla, D Pandey, **Shimpi Singh Jadon**, Results on optimal control for abstract semilinear second order systems, *Proceedings of the Conference on control and its Applications*, Society for industrial and applied mathematics (SIAM), pp. 55-61, 2021, ISSN number: PRCT21, DOI: 10.1137/1.9781611976847.8.
4. **Shimpi Singh Jadon**, H Sharma, Kumar E, Application of Binary Particle Swarm Optimization in Cryptanalysis of DES, *Proceedings of the International Conference on Soft Computing for Problem Solving*

(SocProS 2011), *Advances in Intelligent and Soft Computing*, Springer, Volume 130, pp. 1061-1071, 2012, ISBN number: 978-81-322-0487-9, DOI: 10.1007/978-81-322-0487-9_97.

5. NK Garg, **Shimpi Singh Jadon**, H Sharma, DK Palwalia, Gbest-Artificial Bee Colony Algorithm to Solve Load Flow Problem, *Proceedings of the Third International Conference Volume 259*, pp. 529-538, 2014, Springer, ISBN number: 978-81-322-1768-8, DOI: 10.1007/978-81-322-1768-8_47.
6. H Sharma, **Shimpi Singh Jadon**, JC Bansal and KV Arya, Levy Flight based local search in Differential Evolution, *Proceedings of Fourth International Conference on Swarm, Evolutionary, and Memetic Computing (SEMCCO)*, Springer, Volume 8297, pp. 248-259, 2013, ISBN number: 978-3-319-03752-3, DOI: 10.1007/978-3-319-03753-0_23.
7. JC Bansal, PK Singh, M Saraswat, A Verma, **Shimpi Singh Jadon** and A Abraham, Inertia weight strategies in Particle Swarm Optimization, *Proceedings of Third world congress on Nature and Biologically Inspired Computing (NaBIC)*, IEEE, pp. 633-640, 2011, ISBN number: 978-1-4577-1122-0, DOI: 10.1109/NaBIC.2011.6089659.

Presented paper/attended Conferences

1. Presented a paper, Self adaptive acceleration factor in particle swarm optimization, in Seventh International Conference on Bio-Inspired Computing: Theories and Applications (BIC-TA), ABV-IITM Gwalior, India, December 14–16, 2012.
2. Presented a paper, Expedited Artificial Bee Colony Algorithm, in Third International Conference on Soft computing for problem solving (SocProS), IIT Roorkee greater noida extention, India, December 26–28, 2013.
3. Attended National Seminar on Application of mathematics in Engineering and Technology, MITS Gwalior, India, February 02–03, 2008.
4. Attended First International Conference on Soft computing for problem solving (SocProS), IIT Roorkee, December 20–22, 2011.
5. Attended Second International Conference on Soft computing for problem solving (SocProS), JK Lakshmipat University Jaipur, Rajasthan, India, December 28–30, 2012.
6. Attended Ninth International Conference on Industrial and Information systems (ICIIS), ABV-IITM Gwalior, India, December 15–17, 2014.
7. Attended National Seminar on Emerging Trends in Manufacturing and Automation Engineering (NSMAE), Amity University Gwalior, India, September 29-30, 2016.
8. Chaired the Session, Sixth International Conference on Soft computing for problem solving (SocProS), Thapar University Patiala, India, December 23-24, 2016.
9. Attended International Conference on Recent Trends in Operations Research and Statistics (RTORS) at IIT Roorkee, December 28–30, 2017

Workshops/Short-term courses/FDP Attended

1. Attended *DST* sponsored short term course, Nature Inspired Optimization Algorithms: Recent trends, theory and applications, IIT Roorkee, India, March 25–28, 2011.
2. Attended *DST* sponsored National Meet of Research Scholars in Mathematical Sciences, Department of Mathematics, IIT Kharagpur, India, October 12–15, 2011.
3. Attended *DST* sponsored One week short term training programme, Soft computing techniques for optimization, ABV-Indian Institute of Information and technology and Management, Gwalior, India, March 4–9, 2013.
4. Attended *DST* sponsored One week short term training programme, Soft computing techniques for optimization, ABV-Indian Institute of Information and technology and Management, Gwalior, India, February 17–21, 2014.
5. Attended *AICTE* sponsored One week short term course, Recent advances in Genetic algorithms and their applications in engineering design, QIP Centre of IIT Roorkee, June 25–29, 2012.
6. Attended *ISI Kolkata* sponsored One week workshop, Modern Trends in Soft Computing and Security Issues, National Institute of Science & Technology, Berhampur, Odisha, India, September 23–28, 2013.
7. Attended *TEQIP* sponsored One week Faculty development programme, Optimization techniques using nature inspired algorithms for engineering applications, Rajasthan technical university Kota, January 19–23 2015.
8. Attended One week, Staff Development Programme, Maharana Pratap College Of Technology, Gwalior, India, July 07–12, 2006.
9. Attended International workshop, Machine learning and text analytics, South Asian University, New Delhi, India, December 15–23, 2013.
10. Attended One week, Faculty development programme, Quality Higher Education: Indian Universities, Amity University, Gwalior, June, 14–20 2017.
11. Attended *Electronics & ICT Academies* sponsored two week faculty development program, Advanced Optimization Techniques ad hands on with MATLAB/SCILAB, MNIT Jaipur NIT Patna IIITDM Jabalapur IIT Guwahati, September 06–17, 2021.
12. Attended *Ministry of Education* sponsored two week Refresher Course, Advanced Research Methodology, University of Delhi, August-September 20–03, 2021.

Personal Details

Father's Name : Shri Amar Singh Jadon
Mother's Name : Smt. Meena Jadon
Date of Birth : August 12, 1984
Marital Status : Married
Languages Known : English and Hindi
Nationality : Indian
Permanent Address : Shivaji Nagar, AamKho, Lashkar, Gwalior, Madhya Pradesh -474009

Names of referees

- **Jagdish Chand Bansal**, Associate Professor
Department of Mathematics, South Asian University, New Delhi, India.
Email: jcbansal@gmail.com, jcbansal@iiitm.ac.in,
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- **Kussum Deep**, Professor
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- **Ritu Tiwari**, Professor
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Declaration

I hereby declare that the information mentioned above is true to the best of my knowledge and belief.

Place: Gwalior

Shimpi Singh Jadon