Dr. SUNIL TIWARI

M.Sc.(IT/CS), M.Phil.(CS), Ph.D.(CS), MPSET(CS) Department of Computer Science A. P. S. University Rewa, M.P. India

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CAREER OBJECTIVE:

Creative and Passionate teacher dedicated to fostering a student-centered classroom environment based on mutual respect and collaboration. Committed to helping students identify and develop their own passion while becoming successful, confident in her/him future/life. I have got chance to Work with many good teachers closely as teaching assistant, and many undergrad students.

SUMMARY:

- 15+ Years of Experience in the field of Computer teaching (PGDCA/UG/PG/M.Phil/Ph.D.).
- Having 14+ Years Experience as a Faculty in University Teaching Department, A.P.S.
 University, Rewa (M.P.), India. (2010 TO CONT...)
- Current member of Website Development/Upgradation committee , Awadhesh Pratap Singh University, Rewa (M.P.)
- 15+ Years Consecutive Research Experience.
- My research works have been published in top-tier conferences in related field, and are highly followed by the community. (H-Index 5)
- Ability to research on the related subject.
- Knowledge of Installing Windows, Software Tools.
- Able to understand the problem with program or computer.
- Major strengths are I am dedicated & hard worker and I can work efficiently to produce the quality work.
- I always like to challenge myself to improve at everything I do.
- I have the ability to work in a Team.
- Possess good organizational, management and interpersonal skills.

LIFE TIME MEMBERSHIP

- Life Time Membership of MAHAKAUSHAL VIGYAN PARISAD, VIGYANA BHARITI
 - Reg No.- 04/14/01/08814/06 FROM 29 JUNE 2016.
- Life Time Membership of Bhartiya Shikshan Mandal, Mahakaushal Prant

• Member of various committees in University like IQAC, Research Directorate, Result & Exam Cell, Convocation ceremony, establishment day of University, Youth festival and other since many consecutive years at Awadhesh Pratap Singh University, Rewa (M.P.).

RESEARCH EXPERENCE:

Ph.D. "A Critical study of Structural Relationship between processors for

Thesis Title: Interconnection Network"

Research Centre Department of Computer Science, A.P.S. University Rewa (M.P.)INDIA.

M.Phil "A Study of Artificial Intelligence , Web Based & Parallel System in

Education"

Dissertation Title:

Research Centre Department of Computer Science, A.P.S. University Rewa(M.P.)INDIA.

ATTEND TRAINIG PROGRAM/STTP/WORKSHOP/CONFRENCE/SEMINAR:

2022

 Participation on FDP on "Artificial Intelligence" jointly organized by Department of Computer Science and Department of Computer Application A.P.S. University Rewa M.P. Microsoft, edunet, SAP. under TechSaksham Program 27-10-2022 to 29-10-2022

2021

- 2. Participation on Online FACULTY DEVELOPMENT PROGRAM (FDP) for "Global Business Foundation Skills", a Corporate Social Responsibility initiative, conducted by Infosys BPB Ltd. From 18th October to 29th October,2021
- 3. **Participation on** Independence Day Special Quiz Organized by Department of Computer Science, AWADHESH PRATAP SINGH REWA MP University rewa MP15 Aug 2021.

- 4. **Hands on Faculty development program** on Artificial Intelligence using Python , Organised by Department of Information Technology Oriental college of technology in association withBrainVision Solution pvt. Ltd. And National youth council of india. 14-09-20 to 19-09-2020
- 5. Participation on FDP on Computer Science & Biology Organiosed by ATAL Academy at PDPM IIITDM Jabalpur. 29-8-2020 to 2-9-2020
- 6. Participation on **Online Special lecture** on "Attitudinal change for personality development", organized by Fepartment of Computer Science, A.P.S. University Rewa M.P.India.15 July 2020.
- 7. Participation on **Webinar** on "Artificial Intellegence: The new paradigm" organized by department of Computer Science & Engineering, Kanpur Institute of Techology, Kanpur UP, 7 July 2020

- 8. **National workshop** on "Skill India-An Employment and self relianteconomy perspective" Organised by Sri GTBkhalsa College jabalpurM.P.19-20 June 2020
- 2Day International E-conference on "Technological support to fight against COVID-19" jointly organized by Department of Computer Science and Department of Computer Application A.P.S. University Rewa M.P. India,21-22 June 2020
- 10. **Webinar** on "Exponential Technoligies inEducation" organized by Department of computer science, A.P.S. University rewa m.p. 19-june, 2020
- 11. **Online webinar** "Introduction on AWS cloud computing" Organised by Oriental College of Technology17-june 2020
- 12. National Online Workshop on "Examination Guidance to crack NTA NET/SET.organised by BSUKSIMSR,under IQAC20-22 May 2020.
- 13. Webinar on online tools for effective Teaching and Learning Organised by MGCGV Satna M.P. India 485334.20-21 May 2020
- 14. National Workshop on Mapping of science and Technology needs of Madhya Pradesh organized in collaboration with MPCST,Bhopal, May 20-02, 2020.

2019

- 15. . **National Workshop** on Recent trends in Mathematics & Computer Science organized by Govt. Model Science College Rewa (M.P.) ,April 22-28, 2019.
- 16. Two weeks Faculty Development Program on "Information and Communication Technology: A Gateway to smart future for teaching & Research", joitly organized by Electronics and ICT Academy, NIT Patna & Department of CS, UCT Rewa,9-18 March,2019.

2018

17. **National Workshop** on Research Methods and Statistical data analysis using software:Microsoft Excel,SAS,SPSS and R Software "sponsored by MPCST,Bhopal, Organised by MGCGV Chitrakoot Satna, Vijnana Bharti, 23-24 March 2018.

2017

 One Day Workshop on Digital India & Cashless Campaign organized by APS University & MAP-IT Dec 27,2017.

- 19. Inspire Internship science camp-2016, Organised by A.P.S.University rewa M.P. India 05-09 Dec 2016
- 20. National Workshop on ICT in Rural Development:Opportunities and Challenges Sponsered by Madhya Pradesh Council of Science & Technology and National Academy of Science organized by Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya Chitrakoot,Satna, May 29-30, 2016.
- **21. Workshop** on Art of Modern Sales Management Organized be Department of commerce, Govt. Girls P.G.College, Rewa, April 04-12, 2016.
- **22. Training Program** on Internetworking and Applications Jointly Organised by Department of Computer Science & Engineering and Department of Electronics & Communication Engineering, Maulana Azad National Institute of Technology(MANIT), Bhopal, January 11-15, 2016.

2013

23. **International Workshop** on Computer Forensics, Sponsered and Organized by Bhoutiki Avam Computer Vigyan Parishad, Govt.T.R.S. College Rewa(M.P.), Aug. 6, 2013.

2012

- 24. **National Workshop** on "Machine Learning & Data Mining Techniques in Bioinformatics" sponsored by DBT, Government of India, New Delhi, organized by Bioinformatics Center, Department of computer science, A.P.S. University, Rewa M.P., March 01-04,2012.
- 25. **International Conference** on Recent Trends in Physics (ICRTP 2012), Sponsored by University Grant commission, organized by Devi Ahilya University, indore School of physics. February, 2012
- 26. **Short Term Training Program** on topic "Learning Bioinformatics tool & Programming technique for Teaching & Research Purpose", sponsored by DBT, New Delhi, organized by Centre for bioinformatics, Department of computer science APS university, Rewa M.P., Jan 09-21, 2012.

2010

27. **Workshop** on "Application of Space Technology for Development of Vindhya Region", sponsored by ISRS Bhopal Chapter, Bhopal held at A.P.S.University, Rewa(M.P.)April 16,2010.

Presented / Published Research Paper:

Conference & Seminar Research Paper

2022

 Tiwari Sunil, "Impact of IT and Interconnection Network in self Reliant India", National Seminar multidisciplinary on Contribution of skill development in self reliant india, Organised by Department of Commerce, Govt. Girls P.G. College Rewa M.P. 23-24 November 2022.

2021

- 2. Tiwari Sunil, Tripathi Shravan, Tiwari C.M., "A Study of Topological Properties of PDN and Hex-Cell", 3rd International Conference on Innovative Research in Science, Management and Technology(ICIRSMT 2021)", Organised by Department of Computer Science, and Application, Atal Bihari Vajpayee University, Bilaspur(C.G.) India in association with American Institute of Management and Technology(AIMT) USA, 27-28 December 2021
- 3. Sunil Tiwari, Manish Bhardwaj, Rakesh Kumar Katare, "Study of Communication Pattern for Perfect Difference Network", International Conference on Machine Vision and Augmented Intelligence (MAI 2021) during February 11-14, 2021 at IIITDM Jabalpur, India under SPARC Programme of MHRD, Govt. of India.

2020

 Tiwari Sunil, "Role of Computer Network & Technologies In India-past, present and Future", National Seminar on "HRM In India-past, present and Future, Organised by Department of Commerce, Govt. Girls P.G. College Rewa M.P., 6-7 Feb 2020

2019.

 Tiwari Sunil, "Study of Current trends in Computer Technologies", National Seminar on Role & Challenges to science, humanities and management in rural development organized by Govt degree college Rehti Sehore, 27 Feb 2019.

2017

 Tiwari Sunil, Katare R.K. "Study of Business ethics and social values", seminar on Business Ethics & Society, Govt. girls P.G. College Rewa M.P., April 21-22,2017..

2016

- Tiwari Sunil, Katare R.K. "Analysis and Formulation of P-RAM Algorithm for Interconnection Network", Proceeding/Souvenir in International Conference on Recent Trends in Mathematical science & cosmology, Govt. Model Science College Rewa M.P. India, December 17-18,2016.
- 8. Tiwari Sunil, "Communication Complexity for Interconnection Network", National Seminar on Vision of Digital India, Organised by organized by Govt. Girls P.G. College, Rewa,04-05,Nov 2016
- Tiwari S., "Use of Nanotechnology in Interconnection Network", International Conference on Current Scenario and Prospects of Nanotechnology and Bio-Statistics, ICNB-2016 U.P.Rajarshi Tandon Open University, Allahabad, February 25-26, 2016.
- 10. Katare R.K., Tiwari S., Pandey A., "Interconnection Network with Nanotechnology", Proceeding/Souvenir in International Conference on Current Scenario and Prospects of Nanotechnology and Bio-Statistics, ICNB-2016 U.P.Rajarshi Tandon Open University, Allahabad, February 25-26, 2016.

- 11. Tiwari, S.," A Study of Research Tools and Methods in Computer Science.", National Conference on New Approaches in Research, Organized by Computer Vigyan Avam Bhoutiki Parishad, Govt. T.R.S. College Rewa, December 29, 2015
- 12. Tiwari, S., "Scennario & Challenges for make smart city in India: Digital India", Seminar on "Scennario & Challenges for make in India", organized by Govt. Girls P.G. College, Rewa, November 27, 2015.
- 13. Tiwari S., Katare R.K., "A Study of Structural Pattern of Interconnection Network and its Mathematical Representation", Proceeding of International Conference on Emerging Research in Computer Science and Software Engineerig, Sponsored by M.P. Council of Science and Technology, Bhopal, Organized by University Institute of Computer Science and Application (UICSA) R. D. University, Jabalpur, M.P., India. ISSN No.2393-9931, November 21, 2015.
- 14. Tiwari S., Katare R.K., "Topological properties of Hex-Cell and Perfect Difference Network (PDN)", National Seminar on Recent Trends in Science and Technology, Jointly Organized by Indian Science Congress Association and M.P. Council of Science and Technology, Bhopal held at Vigyan Bhavan Bhopal, march 30-31, 2015
- 15. Gautam K., Tiwari S., Gupta R.P." Participation of Women Entrepreneurs in the Economic Development of India", Seminar on Bharat ke Arthic Vikash me Yogdaan", Govt. Girls PG College Rewa (M.P.) India16-17, March 2015

16. Tiwari S., Katare R.K., "A Study of Hex-Cell, Complete Graph and Perfect Difference Network(PDN)", Proceeding of 2nd International Conference on Emerging Trends in Computer Science, communication and information technology, Nanded Maharashtra,P-116.ISBN 978-81-923487-1-1, February 09-11, 2015.

2013

- 17. Agnihotri,R.,Katare,R.K.,Tiwari,S.,"Application of projective Geometry......communication Network", Proc./Souv. Of National Seminar Organized by Bhoutiki avam computer vigyan Parishad,Govt.T.R.S. College Rewa (M.P.)p-10, August 7, 2013.
- 18. Tiwari Sunil, "The Role of Artificial Intelligence & web based education in Tribal Areas", Proc./souv. of National Seminar on Awareness of Computer Science & Information Technology Among the Tribes of Central India, Organized by Department of Computer Science, IGNTU, Amarkantak, March 20-21, 2013.

List of Published Paper:

International Journal Papers:

2024

1. **Sunil Tiwari,** G.N. Singh, C.M. Tiwari, Manoj Gupta, "Study of Switching Circuit for Parallel Computing", Journal of AI & CS Vol 01, Issue 01, January 2024. Doi: 10.5281/zenodo.10565057.

2023

- 2. Kirti Gautam, Rekha, R.P.Gupta, **Sunil Tiwari,** "Study of Skill Development Program for Reduce the Unemployement", Vindhya Bharti, Research Journal of A P S University, Rewa M.P. No. 23, Vol 1 ISSN 0976-9986, Dec. 2023
- 3. Rakesh Kumar Katare, Sharavan Tripathi, **Sunil Tiwari**, "Study of Parallel Computing Structure and Circuit Analysis for Interconnection Network", International Journal of Advance Research in Computer Science, No. 3, Volume 14, ISSN 0976-5697 May 2023. DOI: http://dx.doi.org/10.26483/ijarcs.v14i3.7005

- Rakesh Kumar Katare, Sunil Tiwari, Anupriya Singh, "A Study of Dependencies among processors in Interconnection Network", International Research Journal of Science Engineering and Technology (RJSET) Volume 12 Issue 4, ISSN 2454-3195, Dec-2022
- 5. **Sunil Tiwari**, Anamika Shukla, Rakesh Kumar Katare, "A Study of Vectors and Link Utilization of Hypercube", International Journal of Advanced Research in Computer and Communication Engineering, *Volume 11*, *Issue 2*, *Feb 2022*, *ISSN(online) 2278-1021,(print) 2319-5940.Impact Factor- 7.39*

 Sunil Tiwari, Jyotsana Tiwari, Rakesh Kumar Katare, "Study of Logical Operations between the vectors of a Hypercube", International Research Journal of Science Engineering and Technology (RJSET) Volume 12 Issue 1, ISSN 2454-3195, Jan-2022

2021

- 7. Rakesh Kumar Katare, **Sunil Tiwari**, Chanchala Kamat, "Study of Topological Properties of Hyper Cube", GIS Science Journal, Scientific Journal Impact Factor 6.1, UGC-CARE Approved Group 'II' journal, Volume 8, Issue 12, ISSN NO: 1869-9391, December 2021.
- 8. Rakesh Kumar Katare, Neha Singh, Ritu Mishra, **Sunil Tiwari**, Charvi Katare5,Study of Connectivity and Complexity of Architecture for Parallel and Distributed System by Using Topological Linear Space, IJIRT | Volume 8 Issue 4 | ISSN: 2349-6002, September 2021.
- 9. Rakesh Kumar Katare, Ritu Mishra, Neha Singh, **Sunil Tiwari**, "Study of Patterns of Connectivity in Hypercube Interconnection Network Through Number Theoretic Notation", **IJIRT** INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY, Volume 8 Issue 4 | ISSN: 2349-6002, September 2021, Page-496-502
- 10. Rakesh Kumar Katare, Ritu Mishra, Neha Singh, Sunil Tiwari, Charvi Katare, "Knowledge representation of binary coding of logic operations for Interconnection Networks", Journal of Information and Computational Science, Volume 11 Issue 9 - 2021, ISSN: 1548-7741
- 11. **Tiwari Sunil**, Soni Priyanka, Katare Rakesh Kumar, "Study of Connectivity and Structural Properties of Perfect Difference Network and its mapping to Data Structure", The International journal of analytical and experimental modal analysis Volume XIII, Issue IV, April/2021,ISSN NO:0886-9367.

2020

12. **Tiwari Sunil,** Pushpraj saket, Katare Rakesh kumar, Katare Charvi, Tiwari Amar, Gautam Kirti, "Study of Data Structure and Symmetry Properties for Interconnection Network", International Research Journal of Science Engineering

- and Technology Volume 10 Issue 3 ISSN 2454-3195,2020,UGC ID-47932,IF-6.3305
- 13. Tiwari Sunil, Singh Gaharwar Piyush, Katare Rakesh kumar, "A Study of Structural Analysis of PDN" International Research Journal of Science Engineering and Technology Volume 10 Issue 2 ISSN 2454-3195,2020, UGC ID-47932,IF-6.3305

2019

- Tiwari Sunil, et. al., "Vector Operation on Nodes of PDN using logical operators" International Journal of Advanced Research in Computer Science Vol 10, No 06,2019 ISSN- 0976-5697. IF
- 15. Kirti Gautam, R.P.Gupta, Taruna Tiwari, **Sunil Tiwari**, " Prashikshan avam arthik sahyog k liye govt. yojnao aur karyakram ka adhyan" JETIR, ISSN-2349-5162, Volume 6, Issue 6, June 2019. UGC approved journal no 63975 **IF -5.87**

2018

- Kirti Gautam, R.P.Gupta, Sunil Tiwari, "A Study of PMKVY in Rewa", Vindhya Bhartiya Journal of APS University, rewa M.P. India ISSN No 0976-9968No-16, Vol 1, July 2018.
- 17. **Tiwari Sunil, Katare Rakesh Kumar, Sharma Vinod**, "Study of Structural Representation of Perfect Difference Network", IJRSET, Volume 6, Issue III, March 2018(paper accepted) **ISSN 2321-9653.**(UGC Approved List Journal No-45842)IF-7.429

2017

- 18. **Tiwari Sunil, Katare Rakesh Kumar, Sharma Vinod,** "A Study of Parallel Programming Techniques for Interconnection Network"International Journal of Emerging Technology and Advanced Engineering, E-ISSN 2250-2459,VOL 7,ISSUE 9,Sep 2017 IF **7.127**.(UGC Approved List Journal No-63196)
- 19. **Tiwari Sunil, Katare Rakesh Kumar,** "A Study of Interconnection Network for Parallel and Distributed System" BEST: International Journal of Management, Information Technology and Engineering ISSN (P): 2348-0513, ISSN (E): 2454-471X, Vol. 5, Issue 06, Jun 2017, 69-74

2016

20. **Tiwari Sunil, Katare Rakesh Kumar, Sharma Vinod, Tiwari Chandra Mani**, "Study of Geometrical Structure of Perfect Difference Network (PDN)", International Journal of Advanced Research in Computer and Communication

Engineering, Volume 5, Issue 3, march 2016, ISSN (online) 2278-1021, (print) 2319-5940. Impact Factor - 5.332

2015

- 21. **Tiwari S., Katare R. K.,Singh N.**, "Computing and Comprehending Parameters for Structural Analysis of PDN ad Hex-Cell Architecture", The Research Journal of A.P.S. University, Rewa, No. 12, Volume IV October 15, ISSN 0976-9986.
- 22. **Tiwari S, Katare R. K.**, "A Study of fabric of Architecture Using Structural Pattern and Relation" International journal of Latest Technology in Engineering, Management and Applied Science volume IV,issue IX,September 2015,ISSN 2278-2540 Impact Facor 2.115
- 23. **Tiwari S.**, Katare R. K., "Alliance Study of Perfect Difference Network & Hex-Cell Architecture".International Journal of Emerging Technology and Advanced Engineering, volume 5, Issue 3, march 2015 p-25.IMPACT FACTOR 2.913

Published Paper(CHAPTERS) in ISBN/ISSN Proceeding

- Tiwari Sunil, Katare R K, Bhardwaj M., "Study of Communication Pattern for Perfect Difference Network", Machine Vision ad Augmented Intelligence- Theory and Applications Springer Nature Singapore Pte Ltd 2021. http://doi.org/10.1007/978-981-16-5078-9_11.
- 2. Tiwari S., Katare R.K., "A Study of Structural Pattern of Interconnection Network and its Mathematical Representation ",Proceeding of International Conference on Emerging Research in Computer Science and Software Engineerig, Sponsored by M.P. Council of Science and Technology, Bhopal, Organized by University Institute of Computer Science and Application(UICSA) R. D. University, Jabalpur,M.P., India.ISSN No.2393-9931, November 21, 2015.
- **3.** Tiwari S., Katare R.K., "A Study of Hex-Cell, Complete Graph and Perfect Difference Network(PDN)", Proceeding of 2nd International Conference on Emerging Trends in Computer Science, communication and information technology, Nanded Maharashtra,P-116.ISBN 978-81-923487-1-1, February 09-11, 2015.

INVITED LECTURE

- Delevired **lectures for Pre Ph D Course work Students** as expert at **Govt. Girls PG College**, Rewa M.P. Related to Data Analysis Tool in research.
- Delevired **lectures for Pre Ph D Course work Students** as expert at **Govt. T.R.S. College**, Rewa M.P. Related to Data Analysis Techniques in research.
- Delevired **lectures for Pre Ph D Course work Students** as expert at **Govt. Law College**, Rewa M.P. Related to Computer Application in Research.
- Delevired lectures for Pre Ph D Course work Students as expert at UTD (Computer science, Biotech, History, AIHCA, Commerce, Economics, Environmental Biology, Physical Education), A.P.S. University, Rewa M.P. Related to Research Methodology and Computer Application in research.

- Delevired **5 lectures** as expert at **Govt. Girls P. G. College**, Rewa M.P. Related to Computer Network & Office Automation.
- Delivered Lecture as Guest Speaker at Food Craft Institute, Rewa, Established by Ministry of Tourism Govt of MP Affilated with NCHMCT, Noida
- Metorship for M.Tech Students on ANVESHAN, Student Research Convention during februrary,6-7 2020

PROJECT:

Project Title : Solution for Library Automation and Management.

Organization : Sainik School Rewa (M.P.)

Duration : 6 Month

Language Used : Visual Basic 6.0 (Front End), MS Access (Back End)

Team Size : 3

Responsibilities:

Included working as Analysist & Application Developer.

Debugging

Documentation

Certificate Attached(No.SSR/1362/I/Estt)

Other Experience:-

- Work as invigilator in the examination (UG, PG, M. Phil., Entrance of M. Phil. & Pre PhD, Ph.D Course work) conducted by University.
- Valuation of Exam Answer sheet (UG, PG, M. Phil., Entrance of M. Phil. & Pre Ph.D.).
- Setting of sessional papers, question bank, assignment etc.
- Instruct/supervise/assist research scholar for making UG/PG Project, M. Phil. Dissertation and Ph. D. Thesis.
- Setting of Lab assignment (Programs/Minor/Major Projects) for the students.
- Working experience in website up gradation, coding decoding cell.
- Online verification of admission form, scholarship form etc.
- Doing other work of department given by Head/ Prof. In-charge (like NAAC report, Budget report etc.)

Extension Work/Community Service

- Teach and celebrate festivals with Handicapped (Blind) people.
- Planting the tree/ flower (at least 5 in a year) since 2015.
- Distribute books and cloths to poor and needy person.
- Cleanup a department campus and city rivers.
- Organized Awareness program.

SCHOLASTICS:

- MPSET-2022 in Computer Science Awarding Agency- MPPSC, Accredited by UGC, New Delhi
- Ph.D. in Computer Science from A.P.S. university, Rewa in year 2017.
- M.Phil. in Computer Science from A.P.S. university, Rewa in year 2010.
- M.Sc. from MCNUJC Bhopal (M.P.) in year 2008.
- BCA (Bachelor in Computer Application) from MCNUJC Bhopal (M.P.) in year 2006.
- Higher Secondary (12th) from M.P. Bhopal (M.P.) in year 2003.
- **High School (10**th) from **C.B.S.E. Board** in year 2001.

PERSONAL PARTICULARS:

Date Of Birth : 31 – Aug. –1985
 F' Name : Shri R.S. Sharma

• Marital Status : Single

• Language Known : Hindi, English

• Hobbies : Listening Music, Making Friends, Reading book

• Current Location : Rewa (Madhya Pradesh)

Date:	
Place:	(Sunil Tiwari)