

LAXMIKANT SHARMA, PhD

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RESEARCH PUBLICATIONS

- **Sharma, L.**, Chellapilla, V.L. & Chellapilla, P (2023). Socio-inspired evolutionary algorithms: a unified framework and survey. *Soft Computing* 27(19): 14127–14156. DOI: <https://doi.org/10.1007/s00500-023-07929-z>
- **Sharma, L.**, Chellapilla, V.L. & Chellapilla, P. “Improved Imperialist Competitive Algorithm for Selection Problems in Combinatorial Optimization.” (*Communicated to ICTACT Soft Computing*).
- **Sharma, L.**, Chellapilla, V.L. & Chellapilla, P. “Vedic Society Optimizer (VSO): A new socio-inspired metaheuristic for real-world engineering optimization.” (*Communicated to Knowledge-Based Systems*).
- **Laxmikant**, Vasantha Lakshmi, C., Patvardhan, C. (2023). QKPICA: A Socio-Inspired Algorithm for Solution of Large-Scale Quadratic Knapsack Problems. In: Singh, P., Singh, D., Tiwari, V., Misra, S. (eds) *Machine Learning and Computational Intelligence Techniques for Data Engineering* (pp. 695-708). *Lecture Notes in Electrical Engineering*, vol 998. Springer, Singapore. DOI: https://doi.org/10.1007/978-981-99-0047-3_59
- **Sharma, L.** & Vasantha Lakshmi, C. & Patvardhan, C.. (2023). Design of optimal trusses using novel Socio-inspired Evolutionary Algorithm. *International Conference on Recent Advancement and Innovation in Engineering & Technology*, Lucknow.
- Singh, S., **Laxmikant**, Chellapilla, V.L. & Chellapilla, P. “Read aloud text in Indian languages with NAO Robot.” *6th Int. Conf. on Dayalbagh (Art) Science (& Engineering) of (Evolutionary/Re-Evolutionary) Consciousness (DSC)*.

TALKS AND PRESENTATIONS

- **Socially-inspired Evolutionary Algorithms** in One-Day UGC-SAP Seminar on “Advances in Nano and Bio Sciences,” March 27, 2019, Department of Physics and Computer Science, Dayalbagh Educational Institute (DEI), Agra, India.
- “Fundamentals of Artificial Intelligence and its Applications in Education”

AWARDS AND SCHOLARSHIPS

- **UGC Junior Research Fellowship (JRF):** July 2019 – July 2022
- **UGC Senior Research Fellowship (SRF):** July 2022 – July 2024

ACADEMIC CONTRIBUTIONS

- Designed and developed the official L^AT_EX thesis template for Dayalbagh Educational Institute, enabling standardized formatting for MSc and PhD thesis submissions across departments.
- Created display posters for the department highlighting faculty, infrastructure, and research achievements; these are showcased on departmental boards and used during official visits and academic events.
- Assisted junior students and peers with thesis formatting, referencing (BibT_EX), and technical documentation using L^AT_EX.
- Maintained and organized the research lab infrastructure during PhD, ensuring proper functioning of systems, software environments, and computing resources.

- Provided technical support to lab members, including setup of simulation tools, programming environments, and research-related software (e.g., MATLAB, Python, L^AT_EX).
- Ensured data backup and version control using Git and local servers, improving collaboration and reproducibility of research code.
- Guided BTech and BSc (Computer Science) students in the development and deployment of their academic and final-year projects, providing support in software design, coding, testing, and deployment.

TEACHING EXPERIENCE

APR 2019 – MAR 2024 **Teaching Assistant**

Dayalbagh Educational Institute, Agra

Conducted undergraduate lab sessions and tutorials in Computer Science. Taught courses in C Programming and Data Structures. Assisted faculty with student evaluations.

Robotics Involvement: Programmed and operated the NAO humanoid robot for educational demonstrations and research projects involving speech, motion, and interaction.

JAN 2017 – FEB 2018 **Teacher (Computer Science)**

Lord Krishna Institute Of Education, Mathura, UP

Taught Computer basics to D.El.Ed (Diploma in Elementary Education) students.

WORK EXPERIENCE

APR 2016 – NOV 2016 **Jr. Android Developer**

VCareAll Solutions Pvt. Ltd., New Delhi

Developed 6 Android applications independently and contributed to 8 additional projects. Recognized with the *Star of the Month* award in the final month of tenure.

EDUCATION

MAR 2018 – present **Ph.D. in Computer Science** (Thesis Submitted)

Dayalbagh Educational Institute, Agra

Topic: **Quantum-inspired Vedic Society Algorithms**

Interests: Evolutionary Computation, Soft Computing, Quantum Computing, Socio-inspired Evolutionary Computation, Combinatorial optimization

AUG 2014 – MAY 2016 **Master of Computer Applications (MCA)**

Dr. A.P.J. Abdul Kalam Technical University, Lucknow

Projects: Two major academic projects completed

Placement: Campus selection as **Jr. Android Developer**

Grade: 76.85%

AUG 2011 – MAY 2014 **B.Sc. in Computer Science**

Dr. Bhimrao Ambedkar University, Agra

Grade: 59.27%

AUG 2009 – MAR 2011 **Intermediate (UP Board)**

Grade: 76.20%

JULY 2008 – MAR 2009 **High School (UP Board)**

Grade: 64.83%

TECHNICAL SKILLS

Programming languages: C/C++, Java, JavaScript, Python, MATLAB
Web development: HTML5, CSS3
Tools & Environments: Git, Docker, Qt Creator, L^AT_EX, gnuplot, MS Office
IDEs used: Eclipse, Android Studio, Visual Basic Studio, T_EXstudio, CLion, Py-Charm, MATLAB

LANGUAGES

ENGLISH: Proficient
HINDI: Native
SANSKRIT: Intermediate

INTERESTS AND ACTIVITIES

Academic Interests: CS, Programming, Sanskrit, Mathematics, Electronics, and Literature
Hobbies: Reading, playing chess, and solving logical puzzles like the Rubiks Cube
Personal Passion: Enthusiastic about exploring emerging technologies and using computing tools for research, learning, and problem-solving

REFEREES

- **Prof. Chellapilla Patvardhan**
Director, Dayalbagh Educational Institute (DEI), Agra
Dean, Faculty of Engineering
Professor & Head, Department of Electrical Engineering
Email: cpatvardhan [at] dei.ac.in
- **Prof. Chellapilla Vasantha Lakshmi**
Professor, Department of Physics and Computer Science
Dayalbagh Educational Institute (DEI), Agra
Email: vasanthalakshmi [at] dei.ac.in
- **Dr. Vuppuluri Prem Prakash**
Assistant Professor, Department of Electrical Engineering
Dayalbagh Educational Institute (DEI), Agra
Email: vpremprakash [at] dei.ac.in
- **Prof. Sukhdev Roy**
Professor & Head, Department of Physics and Computer Science
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