Rakesh Mahto

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Education

PH.D. | SUMMER 2016 | UNIVERSITY OF NEW MEXICO, ALBUQUERQUE, NM

· Major: Computer Engineering
· Minor: Computer Architecture and VLSI Design.

M.S. | SPRING 2009 | CALIFORNIA STATE UNIVERSITY, FULLERTON, CA

· Major: Electrical Engineering
· Minor: Computer Engineering

B.E. | SPRING 2005 | VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT, INDIA

· Major: Electrical Engineering

Academic Experience

PROFESSOR | AUGUST 2025- PRESENT

· Department of Electrical and Computer Engineering
· California State University, Fullerton, CA

ASSOCIATE PROFESSOR | AUGUST 2022- JULY 2025

· Department of Electrical and Computer Engineering
· California State University, Fullerton, CA

ASSISTANT PROFESSOR | AUGUST 2016 – JULY 2022

· Computer Engineering Program
· California State University, Fullerton, CA

Grant Awarded

· "SMART (Sustainable Management and AI-Driven Resource Transformation): Leveraging AI and IoT for Energy Efficiency at CSUF", Edison Sustainability Grant, [Co-PI; $7,000] January 2025 – July 2025.
· "SUSTAIN-PV: Secure and Sustainable Technologies for Advanced Intelligent Networked Photovoltaics", Edison Sustainability Grant, [PI; $7,000] January 2025 – July 2025.
· Titan Research Immersion: Empowering Diversity in Chip Design, AI FAST Challenge, Foundation for California Community Colleges [PI; $150,000], February 2025 – August 2026.
· Electric Vehicle (EV) Engineering Certificate Program, CPaCE Accelerator Grants program 2023-2024 [Co-PI; $50,000], May 2024 - June 2026.
· Engaging Graduate Students in Research, Scholarly, and Creative Activities (EG-RSCA) Program [PI; $5,000] June 2024 – December 2024.
· ECS Incentive Grant [PI; 3 WTUs Release Time] May 18, 2024 - December 20, 2025.
· Research, Scholarship, and Creative Activity (RSCA), CSUF [PI; $15,000], June 2024 - December 2025.

- LUMINATE, CSU Creating Responsive, Equitable, Active Teaching and Engagement (CREATE) Awards, CSU Office of the Chancellor [PI; $108,242], August 2023 – August 2024.

Publications (recent)

- S. Lodhi, K. Sood, and R. Mahto, "Minimizing Student Failure With Machine Learning in Computer Science and Engineering Classes," IEEE International Conference on Circuit, Systems and Communication (ICCSC 2025), Fez, Morocco, 2025. (accepted)
- V. Yedavilli, A. Desai, J. Olivares, S. Lodhi, R. Cruz, S. Monofre, K. Huang, K. Sood, J. Dofe, and R. Mahto, "Intelligent Shading Classification for Smart Reconfigurable Photovoltaic Panels in Residential Solar Systems," in The 9th International Conference on Applied Cognitive Computing: Computer Science and Computer Engineering (CSCE 2025), 2025. (accepted)
- J. Olivares, A. Desai, V. Yedavilli, S. Lodhi, R. Cruz, S. Monofre, K. Huang, K. Sood, J. Dofe, and R. Mahto, "Modeling the Impact of Partial Shading on Photovoltaic Panels," in 27th International Conference on Artificial Intelligence: Computer Science and Computer Engineering (CSCE 2025), 2025. (accepted)
- R. Mahto and K. Sood, "Predicting Cervical Cancer Based on Behavioral Risk Factors," International Journal of Advanced Computer Science and Applications, vol. 15, no. 11, 2024, doi: 10.14569/IJACSA.2024.0151101.
- J. Olivares, T. Depe, and R. Mahto, "Reconfigurable Battery Systems for Enhanced Fast Charging in Electric Vehicles," IEEE 15th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON), Berkeley, USA, 2024. (in-press)
- A. Martinez, K. Sood, and R. Mahto, "Developing a Machine Learning Model to Identify At-Risk Students," 20th International Conference on Frontiers in Education: Computer Science & Computer Engineering (FECS'24), Las Vegas, USA. (in-press)

Professional Service

- Review Editor on the Editorial Board of Energy Efficiency Applications (specialty section of
- Frontiers in Energy Efficiency)
- Topical Advisory Panel for MDPI Electronics Journal.
- Technical Program Chair – IEEE Conference on Technologies for Sustainability (SusTech 2022).
- Reviewer board - Journal of Low Power Electronics and Applications, and MDPI Signals.
- Technical committee - IEEE ISQED (2020), IEEE Sustech (2020), IEEE ICCC (2019), and ITNG (2020, 2019)
- Reviewer for IEEE Design Automation Conference, IEEE International Symposium on Quality Electronic Design, IEEE Translations of Electron Devices, MDPI Open Access Journal - Electronics, Journal of Low Power Electronics and Applications (JLPEA), IEEE Power and Energy Conference – 2019 and others.

Award

- Faculty Recognition Award- Excellence in Scholarly and Creative Activity (Fall 2024).
- Best Paper Presentation Award IEEE IEMCON 2024, and IEEE IEMCON 2022
- PI Award (Spring 2025 and 2024)
- Faculty Recognition Award- Excellence in Teaching (Fall 2020).
- Faculty Advisor of Distinction (Spring 2019).