



149

Total Research Outputs
Papers, patents & books

94

Conference Papers
IEEE & Springer proceedings

24

Journal Articles
12 in Q1-ranked journals

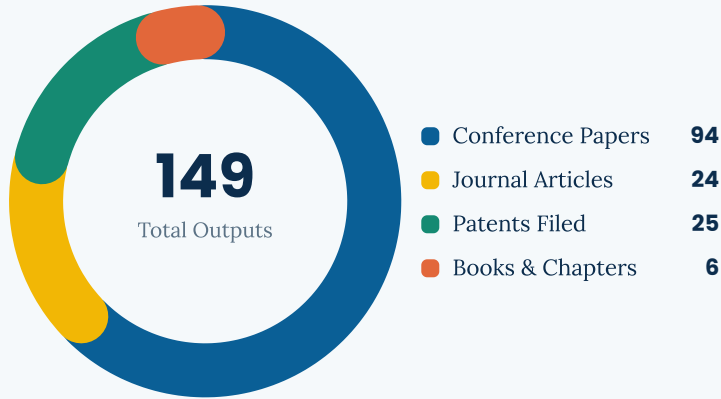
25

Patents Filed
India (IPO) applications

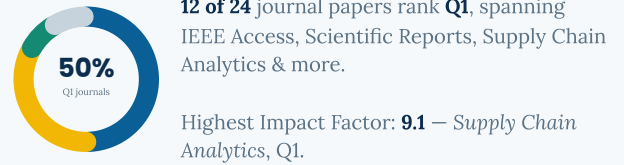
6

Books & Chapters
Incl. 3 authored textbooks

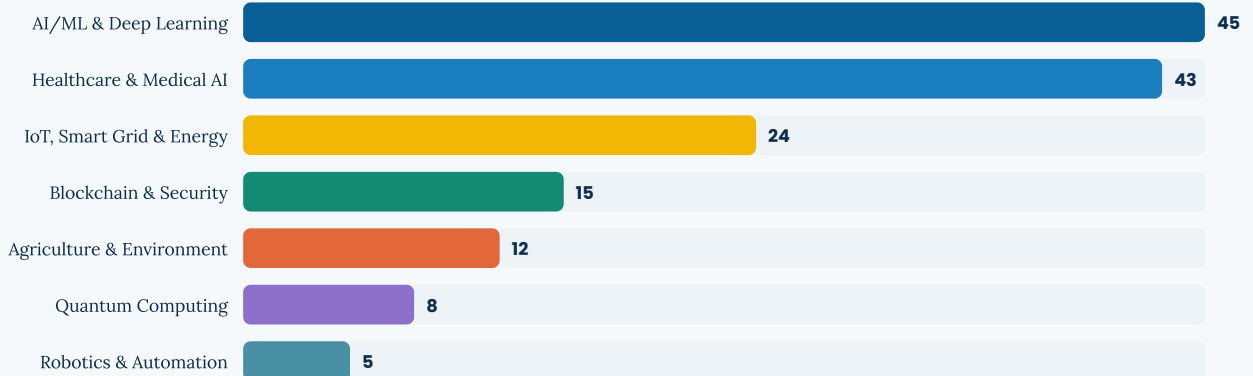
Publication Portfolio Mix



Journal Quality (SCS Quartile)



Research Focus Areas



Selected Highlights — Publications & Patents

PATENT · SPACE ROBOTICS

Autonomous Multi-Terrain Interplanetary Explorer with Reconfigurable Wheel-Leg Mobility

Application No. 202641015413 A

JOURNAL · Q1, IF 4.9

Enhanced Terminal Sliding Mode Control for Gait Exoskeleton Device — Scientific Reports

Experimental investigation & validation

JOURNAL · Q1, IF 4.2

Annotation-Driven Drone Autonomy using YOLOv8-V11 for Real-Time Object Detection — IEEE Access

Real-time detection & distance estimation

PATENT · PRECISION PSYCHIATRY

Biomarkers and Generative Inference-based Precision Psychiatry System and Method

Application No. 202641025843 A

PATENT · AGRI-TECH

AI-Driven Adaptive Microbial Consortium with Intelligent Encapsulation for Crop Resilience Under Drought & Heat Stress

Application No. 202641048661

JOURNAL · Q1, IF 5.9

IoT-based AI Framework for Real-Time Health Monitoring & Telemedicine — Discover IoT

Smart healthcare diagnostics

Published & Indexed With

IEEE

Springer Nature

Elsevier

MDPI

Nature Portfolio

Scopus (SCS Q1–Q4 ranked)

India Patent Office (IPO)