


Ms. RASHMI GUPTA

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Address: 63R CGH Colony, Vasant Vihar, New Delhi, 110057, India



OBJECTIVE

Looking for a challenging role in an organization to utilize my technical, analytical, and management skills for the growth of the organization as well as to enhance my knowledge. Obtain decent experience in the field of intellectual property rights (IPR) related to patents, designs, trademarks, copyright and geographical indicators.

EXPERIENCE

Currently doing training in IPR, under WOS-C {A scheme of Government of India for the women scientists, “Women Scientist Scheme (WOS-C)” is being operated by the Department of Science & Technology (DST)} from Patent facilitating Centre (PFC), TIFAC, New Delhi, India

INTELLECTUAL PROPERTY SKILLS

- Gained clear and thorough understanding of Indian Patent Act, 1970 and Patent Rules 2003.
- Evaluated technical and legal aspects of patent applications, performed prior art searches to determine patentability (novelty, inventiveness, and industrial applicability) of patent applications
- Conducted searches across patent databases (InPASS, PATENTSCOPE, Google patents, Espacenet, USPTO) and non-patent literature (Google, Google Scholar, Youtube etc.)
- Performed technological landscaping reports on particular technology using different patent search criteria using patent databases.
- Understood First Examination Report and helped inventor to prepare their response
- Conducted trademark searches for technologies in a specific area.

TECHNICAL SKILLS

- MS Office (Word, Excel, PowerPoint), Adobe Acrobat (PDF annotation)
- Languages: C/ C++, R, MATLAB
- Machine learning Algorithms: Decision Tree, K-means, KNN Classification, Support Vector Machine etc.
- Image processing algorithms: encoding / decoding, feature detection and matching, image segmentation and transformation.

QUALIFICATION

Post-graduation (2015-2017)

M.Tech in Computer Science and Engineering (Analytics)
National Institute of Technology, Delhi
(CGPA 7.5)

Graduation (2006-2010)

B.E. in Computer Science and Engineering
Lakshmi Narain College of Technology, Bhopal
(Aggregate 73.7 %)

Other Qualification

- **Registered as Patent Agent (2020) 2022 (Reg. No. IN/PA4796)**
- GATE (2020)
- UGC –NET for Assistant Professor (2019)

PROJECT DETAILS

B.E. Project: **“Kernel Recompile” on Linux platform**

M.Tech Project: **Shadow Detection in Real World Images**

Shadow Detection and Removal is the process to enhance the performance, reliability and accuracy of the computer vision applications including image segmentation and object recognition, object tracking, surveillance etc. Detection and removal of shadow from the images and videos can reduce the undesirable outcomes in the computer vision applications and algorithms.

PUBLICATION

Paper entitled as **“A Novel Approach for Shadow Identification using Constrained Particle Swarm Optimization”** got published in conference “8ICCCNT” 2017.

Shadow identification and elimination is the procedure to upgrade the execution, dependability and precision of computer vision applications involving object identification, object tracking, supervision etc. Identification and elimination of shadow from the images and videos can decline the undesirable outcomes in computer vision applications and estimations. In this paper, we suggest a novel way to deal with identifying shadow, which includes three stages. In the primary stage, we obtain features by L^*a*b^* components, Peripheral Increment Sign Correlation (PISC), and contrast between background and observed frame. Constrained Particle Swarm Optimization is utilized as a part of the second stage to find an optimum weight vector to consolidate these features for identifying shadows. Lastly, median filter is applied for improved outcome.

REFERENCES

Ms. Sangeeta Nagar

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