

Name: Dr. Sukhdev Singh

Designation: Assistant Professor

Specialization: Computer Science

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Contact Number: +91- 9814610887



Education:

Master of Computer Science (2005, Dept. of Computer Science, Punjabi University Patiala).

M.Phil. (Computer Science) (2009, Maharishi Markandeshwar University, Mullana).

Ph.D. (Computer Science) (2016, Department of Computer Science, Punjabi University Patiala)

Title of Ph.D. Thesis: “A System for Gurmukhi Script Text Extraction from Natural Scene Images”

Professional experience:

- Working as Assistant Professor in Department of Computer Science, M.M. Modi College, Patiala, India (23rd July 2007 to till date).
- Worked as Assistant Professor in PMN college Rajpura (8th Oct.2006 to 22 July 2007).
- Worked as Web Developer at eYork Technologies, Chandigarh (2nd Nov. 2005 to 31st Aug. Oct. 2006.)

Teaching Interests:

- C- Language
- C++ Language

- Computer Graphics
- Data structure
- Web Technology

Research Interest:

Digital Image Processing and Data analysis

Publications:

Research papers published in reputed International/National journals:

1. “Despeckling of Renal Calculi in Ultrasound Images”, International Research Journal of Engineering and Technology (IRJET), Vol. 2(5), pp. 532-536, Aug.,2015.

<https://pdfs.semanticscholar.org/cd26/b199d3a231c35509004a167242678eb19211.pdf>

2. Sukhdev Singh ,Monika Pathak,Gagandeep Kaur, “Web Services: An e-Government Perspective”, International Journal of Computer Applications (IJCA), (ISBN: 978-81-924893-0-8), pp. 29-31. Aug.,2015

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.735.19&rep=rep1&type=pdf>

3. Sukhdev Singh ,Monika Pathak , Harsh Sadawarti , “ A Technique to Suppress Speckle in Ultrasound Images using Nonlocal Mean and Cellular Automata”, Indian Journal of Science and Technology (Thomson Reuter’s Journal), Vol. 9(13), pp. 1-6, April,2016.

<https://pdfs.semanticscholar.org/d987/bf18f66bcdb585b57c9180322a12dc320235.pdf>

4. Sukhdev Singh, Monika Pathak, Harsh Sadawarti, “Features extraction and classification for detection of kidney stone region in ultrasound images” in International Journal of Multidisciplinary Research and Development, Online ISSN: 2349-4182 Print ISSN: 2349-5979, Vol. 3(5), pp. 81-83, May 2016.

<https://pdfs.semanticscholar.org/d987/bf18f66bcd585b57c9180322a12dc320235.pdf>

5. Sukhdev Singh, Monika Pathak , “Implications and emerging trends in digital image” International Journal of Computer Science and Information Technologies, Vol. 5 (2) , 2014, 2132-2135

<https://pdfs.semanticscholar.org/52f4/5c73c83e2d9283a5d763bb8381bf3373f4ff.pdf>

6. Sukhdev Singh, Monika Pathak, Harsh Sadawarti , “A Comparative Study of Binarisation of Ultrasound Images”, International Journal of Computer Applications (IJCA), ISSN: 0975-8887, pp. 17-19, 2016.

<https://www.ijcaonline.org/proceedings/icaet2016/number6/25913-t091>

7. Sukhdev Singh, Monika Pathak “ Segmentation of Region of Interest in Ultrasound Images Using Fuzzy Logic Clustering Method”, International Journal of Advanced Science and Technology (IJAST), ISSN: 2005-4238 Print) (ISSN: 2207-6360 Online), Vol. 28, No. 19, (2019), pp. 821 – 826, Dec., 2019.

<http://sersc.org/journals/index.php/IJAST/article/download/2668/1870/>

Book/Book chapter

1. Sukhdev Singh, Monika Pathak, published book entitled “Fundamentals of Database Management System”, published by national level publisher Bookman Publications, ISBN: 978-81-931674-9-6.
2. Sukhdev Singh, published book entitled, “Object Oriented Programming using C++” published by Twenty first Century Publications. ISBN: 978-81-89463-24-3.

Conference / Seminars

A) Paper Presented and Published:

1. Sukhdev Singh, Monika Pathak, Gagandeep Kaur, “Web Services: An e-Government Perspective” at 3rd International Conference on “Advancements in Engineering and Technology” held at Bhai Gurdas Institute of Engineering & Technology, Sangrur dated March 20-21, 2015.
2. Sukhdev Singh, Monika Pathak, Harsh Sadawarti, “A Comparative Study of Binarisation of Ultrasound Images” at 4th International Conference on “Advancements in Engineering and Technology” held at Bhai Gurdas Institute of Engineering & Technology, Sangrur (Sponsored by Indian Society for Technical Education (ISTE)) dated March, 2016.
3. Gurvir Kaur, Sukhdev Singh, Ajit Kumar, “Urdu ligature recognition techniques-A review” at International Conference on Intelligent Communication and Computational Techniques dated 26 march 2017.
4. Monika Pathak, Gagandeep Kaur, Sukhdev Singh, “A study on ICT based skill deployment programs in India”, National level conference on advances in engineering technology, management and science, ASRA College of engineering and technology dated 23rd April 2016.
5. Sukhdev Singh, Monika Pathak, “Cellular Automata Based System to Suppress Speckle Noise to Detect Kidney Stone in Ultrasound Images” in International Conference on “International Multi-Disciplinary Academic

Research Conference (IMARC-2019)” held at CT University, Ludhiana dated September 6-7, 2019.

6. Priyapinder, Sukhdev Singh, Monika Pathak, “Review on automatic detection of kidney stone abnormalities in Ultrasound images”, International conference on intelligent communication and computational research (ICICCR-2020), Punjab institute of technology Rajpura dated 25th January 2020.
7. Chaitanya Singla, Sukhdev Singh, Monika Pathak, “Automatic audio-based emotion recognition system: Scope and challenges”, International conference on intelligent communication and computational research (ICICCR-2020), Punjab institute of technology Rajpura dated 25th January 2020.
8. Dharam Veer Sharma, Sukhdev Singh, “An Analysis of Image Binarization Techniques for Natural Scene Images” in proceedings of, IJCA Proceedings on International Conference on Recent Advances and Future Trends in Information Technology (iRAFIT 2012).
9. Dharam Veer Sharma, Sukhdev Singh “Gurmukhi text detection and localization in natural scene images”, International Journal of Advanced Research in Computer Science and Software Engineering, vol. 5, no. 12, pp. 426-428, 2015.
10. Sukhdev Singh , Dharmaveer Sharma, "Binarization of natural scene images" at International Conference on Advances in Computers, Communication, and Electronic Engineering dated 16-18 march ISBN (Online): 978-93-82288-63-3, Publisher: University of Kashmir, Hazratbal, Srinagar, page No.155-160, J&K, India, Publication Date: 16 March, 2015.
11. Monika Pathak, Harsh Sadawarti and Sukhdev Singh, “A Comparative Study of Binarization of Ultrasound Images”, International Journal of Computer Applications (IJCA), ISSN: 0975-8887, pp. 17-19, 2016.

B) Conference Attended:

1. Sukhdev Singh, "Study of statistical based object detection methods in images" presented in One day National Seminar on Usage and prospects of mathematics conducted by Multani Mal Modi College Patiala dated March 07, 2019.
2. Sukhdev Singh, "The Role of Computers to Organizing Different Biological Datasets" in Bioinformatics in 7th National Conference on "Recent Advances in Chemical, Biological and Environmental Sciences (RACES-2015) conducted by M.M. Modi College dated January 30-31,2015.
3. Sukhdev Singh , "Medical Waste Risks and Impact on Health and the Environment" in 8th National Conference on "Recent Advances in Chemical, Biological and Environmental Sciences (RACES-2015) conducted by Feb, 2016.
4. Monika Pathak, Sukhdev Singh, "Digitalisation of record keeping system in health care", National conference on advances in sciences and technology, RIMT- institute of engineering technology, Mandi dated 3-4 march 2016, Gobindgarh

PH.D. STUDENTS:

1. Priya Pinder Kaur, "Herbal Plant Recognition system based on leaf features using machine learning" registered in Dept. of Computer Science, Punjabi University Patiala dated 30.08.2018.
2. Chaitanya Singla, "Emotion recognition system for Punjabi spoken Dialogues using deep learning" registered in Dept. of Computer Science, Punjabi University Patiala dated date of registration 25.04.2019.

WORKSHOPS AND TRAINING COURSES:

1. Attended 3 Days training program on Snetclass communication lab software from (11.03.2015 to 13.03.2015) held at Multani Mal Modi College, Patiala.
2. Attended 7 days Faculty Development Programme on “Training the Trainers on Life Skills” held at Multani Mal Modi College, Patiala from (6th July, 2015 to 12th July, 2015) organized by Rajiv Gandhi National Institute of Youth Development, Regional Centre, Chandigarh (Institute of National Importance by the Act of Parliament No. 35/2012).
3. Attended 8 days Faculty Development Programme on “Academic Writing from Critical Appreciation to Publication” held at Multani Mal Modi College, Patiala from (9th January, 2017 to 16th January, 2017) organized by Internal quality Assurance Cell (IQAC) sponsored by University Grant Commission (UGC).
4. Attended 7 days Faculty Development Programme on “Contemporary Issues in Higher Education” held at Multani Mal Modi College, Patiala from (20th July, 2018 to 26th July, 2018) organized by internal quality Assurance Cell (IQAC).
5. Attended 6 days Faculty Development Programme on “Emerging Issues & Challenges in Higher Education” held at Multani Mal Modi College, Patiala from (17th July, 2019 to 22nd July 2018) organized by internal quality Assurance Cell (IQAC).
6. Attended 3 days Workshop on “Android App Development & Artificial Intelligence” held at Multani Mal Modi College, Patiala from (13th November, 2019 to 15th November, 2019) organized by Department of Computer Science & Placement Cell.

MEMBERSHIP

- Life Time Membership of “Indian Society for Technical Education (ISTE)”, Member ID: LM 97585 since 2014.
- Member of “i-Explore International Research Journal Consortium”
- Member of “IAENG (International Association of Engineers)”.

(Dr. Sukhdev Singh)