

Name: Dr.Monika Pathak

Designation: Assistant Professor

Specialization: Image Processing

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Education:

MCA (2010, Punjab Technical University, Jalandhar,Punjab)

Ph.D(July, 2017, Punjab Technical University, Jalandhar, Punjab)

Title of Ph.D Thesis: “SPECKLE NOISE SUPPRESSION TECHNIQUE TO IMPROVE DETECTION OF KIDNEY STONE IN ULTRASOUND IMAGES”

Professional Experience:

Department of Computer Science, M.M. Modi College, Patiala, Punjab, India (26 July, 2013 to till date)

Department of Computer Science, (RIMT- Regional Institute of Management & Technology, Mandi Gobindgarh, Affiliated toPunjab Technical University, Jalandhar, Punjab, India (2nd August 2010 to 12 July, 2013)

Teaching Interests:

- Software Engineering
- Relational Database Management System
- HTML
- Information Technology
- Management Information System
- Operating System
- System Analysis and Design.
- E-Commerce

Research Interest:

Digital Image Processing

Publications: (*Journal Publications: 11*)

*Author name, (year), paper title. journal title. Vol and page number. Isbn number.
link*

1. **Monika Pathak**, Dr. Harsh Sadawarti, Sukhdev Singh, (2015). Despeckling of renal calculi in ultrasound images. International Research Journal of Engineering and Technology (IRJET). Vol. 2(5), pp. 532-536. e-ISSN: 2395-0056, p-ISSN: 2395-0072.

<https://www.semanticscholar.org/paper/DESPECKLING-OF-RENAL-CALCULI-IN-ULTRASOUND-IMAGES-Pathak-Sadawarti/cd26b199d3a231c35509004a167242678eb19211>

2. **Monika Pathak**, Gagandeep Kaur, Sukhdev Singh, (2015), Web Services: An e-Government Perspective. International Journal of Computer Applications (IJCA). pp. 29-31. ISSN: 0975 – 8887, ISBN: 978-81-924893-0-8.

<https://www.ijcaonline.org/proceedings/icaet2015/number2/22216-4022>

3. **Monika Pathak**, Dr. Harsh Sadawarti, Sukhdev Singh, (2016), A Technique to Suppress Speckle in Ultrasound Images using Nonlocal Mean and Cellular Automata. Indian Journal of Science and Technology. Vol. 9(13), pp. 1-6. ISSN (Print) : 0974-6846, ISSN (Online) : 0974-5645.

<http://www.indjst.org/index.php/indjst/article/view/80421>

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

<http://www.allsubjectjournal.com/archives/2016/vol3/issue5/3-5-109>

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

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

6. Gagandeep Kaur, **Monika Pathak**, (2018), Influence of social networking sites on social behaviour. International Journal of Advanced in Management, Technology and Engineering Sciences. Vol. 8(1), pp.296-302. ISSN:2249-7455.

<http://www.ijamtes.org/gallery/26.jan-ijamtes%20-%202018.pdf>

7. Gagandeep Kaur, **Monika Pathak**, (2018), Ehealth services: a new platform for healthcare for all. International Journal of Current Advanced Research. Vol. 7 (1), pp. 2341-2343. ISSN: Online: 2319-6475, ISSN: Print: 2319-6505.

<https://www.journalijcar.org/issues/ehealth-services-new-platform-healthcare-all>

8. **Monika Pathak**, GagandeepKaur, Vikramjit Kaur, (2018), E-record keeping system in healthcare: step towards Digital India. International Journal of Advanced in Management, Technology and Engineering Sciences. Vol. 8 (2), pp. 427-430. ISSN: 2249-7455.

<http://www.ijamtes.org/gallery/2.feb%20ijamtes%20239.pdf>

9. Gagandeep Kaur, **Monika Pathak**, (2018), A study of attitude of patients towards emerging trends in ict based health care services. International journal of business, management and allied sciences (ijbmas). Vol.5 (1), pp. 185-188. ISSN:2349-4638.

<http://ijbmas.in/IJBMAS%205.1.18/185-188%20Dr.%20GAGANDEEP%20KAUR.pdf>

10. **Monika Pathak**, Anuj Kumar Gupta, Sohni Singh, (2019), A Novel Approach to Detect and Recognize Text in Signboard Images. Pramana Research Journal. Vol. 9(4), pp.166-172. ISSN: 2249-2976.

<https://www.pramanaresearch.org/gallery/prj-p667.pdf>

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

<http://serisc.org/journals/index.php/IJAST/article/view/2668>

Review Articles:

Nil

Book/Book chapter: (Published 2 Books)

1. **Monika Pathak**, Amanjot Kaur, Software Engineering, ISBN Number: 978-81-89463-28-1, Twentyfirst Century Publications, #79, Sheikhpura, P.O. Punjabi University, Patiala (Punjab)-147002.

2. **Monika Pathak**, Sukhdev Singh, Fundamentals of DATABASE MANAGEMENT SYSTEM (DBMS), ISBN Number: 978-81-931674-9-6, Bookman Publications, 41-B, Sawan Park, Ashok Vihar, Phase III, Delhi – 110052 (India).

Conference / Seminars:

A) Resource Person / Invited Lectures:(No Data)

B) Paper Presented and Published:(Total = 08)

1. Monika Pathak, Gagandeep Kaur, Influence of Media and Technology on Adolescent Development, National Conference on “Technology, Modernization and Transitional Society: A Challenging Era for Adolescents” held at A.S. College of Education, Khanna. (Sponsored by College Development Council (CDC), Panjab University, Chandigarh), (2015).

2. Monika Pathak, Gagandeep Kaur, A Study to Analyse Personality Traits in Career Selection, National Conference on “Technology, Modernization and Transitional Society: A Challenging Era for Adolescents” held at A.S. College of Education, Khanna. (Sponsored by College Development Council (CDC), Panjab University, Chandigarh).
3. Monika Pathak, Harsh Sadawarti, Sukhdev Singh, (2016), A Comparative Study of Binarisation of Ultrasound Images, 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)).
4. Monika Pathak, Gagandeep Kaur, (2016), A Study on ICT Based Skill Development Programs in India, National Conference on “Advances in Engineering and Technology, Management and Science” held at Asra Group of Institutes.
5. Gagandeep Kaur, Monika Pathak, Sukhdev Singh, (2017), Managing Patient Records Digitally in Healthcare System, National Seminar on “ Trends & Innovations in Management, Engineering, Education and Sciences (TIME2-2017)” (In association with Indian Society For Technical Education) held at Rayat Institute of Engineering & Information Technology, Raimajra.
6. Sukhdev Singh, Monika Pathak, (2019), Cellular Automata Based System To Suppress Speckle Noise To Detect Kidney Stone In Ultrasound Images, International Conference on “International Multi Disciplinary Academic Research Conference (IMARC-2019)” held at CT University, Ludhiana.
7. Sukhdev Singh, Monika Pathak, (2019), 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.
8. Sukhdev Singh, Monika Pathak, (2019), Automatic audio based emotion recognition system: Scope and challenges, International conference on intelligent communication and computational research (ICICCR-2020), Punjab institute of technology Rajpura.

C) Conference Attended: (Total = 02)

1. Monika Pathak, Gagandeep Kaur, (2015), The Role of Computers to Organizing Different Biological Datasets in Bioinformatics, 7th National Conference on “Recent Advances in Chemical, Biological and Environmental Sciences (RACES-2015) at Multani Mal Modi College, Patiala (January 30-31,2015).
2. Monika Pathak, Gagandeep Kaur, (2016), Medical Waste Risks and Impact on Health and the Environment , 8th National Conference on “Recent Advances in Chemical, Biological and Environmental Sciences (RACES-2016) at Multani Mal Modi College, Patiala (Feb., 2016).

D) List of Publications in College Magazines:(Total = 04)

1. Monika Pathak, (2015-2016), Article “ICT and Record Keeping in Health Care System”. The Luminary. Multani Mal Modi College, Patiala. (122-123).
2. Monika Pathak, (2016-2017), Article “E-Governance in Various Public Sector Services”. The Luminary. Multani Mal Modi College, Patiala. (125-127).
3. Monika Pathak, (2019),Article “Whatsapp as a teaching learning tool”. The Luminary. Multani Mal Modi College, Patiala.

Ph.D Students : (No Data)

Workshops and training courses: (Faculty Development Programmes: 05)

1. 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)**.
2. 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)**.
3. 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)**.
4. 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)**.
5. 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**.

Achievements, Awards and Recognitions:

- **Merit position in 10th class** and got **Scholarship**.
- Got **second prize in paper presentation** held on 21st March, 2009 at Shree Atam Vallabh Jain College, Hussainpura, Ludhiana.
- **Winner of summer queen competition 2017** of **Maharani Gymkhana Club, Patiala**.

Membership:

- Life Time Membership of “**Indian Society for Technical Education (ISTE)**”, M. No.: LM 97587.
- Member of “**i-Explore International Research Journal Consortium**”, Membership ID is 13174.

(International Journal of IT, Engineering and Applied Sciences Research (IJEASR)
(ISSN: 2319 - 4413)

(International Journal of Management and Social Sciences Research (IJMSSR) (ISSN:
2319 - 4421)

- Member of “**IAENG (International Association of Engineers)**”, Membership ID is 141526.

(Dr. Monika Pathak)