

CURRICULUM VITAE

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3/3, Kakaw Enclave, Rose Lane Colony,
Buchpora Srinagar, J & K, India

Present Position Assistant Professor in the Department of ECE, SOET, BGSB University,
Rajouri, J&K since March 2012.

FIELDS OF RESEARCH INTEREST

Biometrics, Image Processing and Pattern Recognition.

EDUCATIONAL DEGREES

<i>Ph.D.</i>	2022 (Submitted)	Department of ECE, National Institute of Technology, Srinagar Thesis Title: Hybrid Physio-Behavioural Biometric Recognition using Handcrafted and DeepNet Features.
<i>M. Tech</i>	2009-2011	M.Tech degree in Communication and IT , Department of Electronics and Communication, National Institute of Technology, Srinagar with C.G.P.A. of 7.285 . Thesis title: “Lip Based Biometric Techniques: A comparative Study.”
<i>B.Tech.</i>	2005-2009	B.Tech degree in Electronics and Communication, from Guru Nanak Dev University, Amritsar with an aggregate percentage of 63.94 .

<i>Higher Secondary</i>	2004	Tyndale Biscoe School, Srinagar, J & K Board of School Education with an aggregate percentage of 70.5
<i>Senior Secondary</i>	2002	Tyndale Biscoe School, Srinagar, J & K Board of School Education with an aggregate percentage of 70.4 .
Past Teaching Experience		1. Assistant Professor (Contractual) at Baba Ghulam Shah Badshah University from 9 th Sept 2011 to 26 th March 2012.

PATENTS AWARDED/ PUBLISHED

1. **Haider Mehraj**, Farkhanda Ana, Tanvir Ul Hassan Dar, Zahid Khaki and Syed Mujtiba Hussain (2021). Apple Leaf Disease Detection using Deep Learning Algorithms (Indian Patent Application Number: 202111055682), Journal No. 52/2021 Dated 24/12/2021, Indian Patent Office. **(Published)**.
2. **Haider Mehraj**, Faisal Rasheed, Idris Afzal, Farkhanda Ana, Azra Nazir (2019). Biometric Fingerprint Recognition System with Encryption. (Indian Patent Application Number: 201911035881), Journal No. 38/2019 Dated 20/09/2019, Indian Patent Office. **(Published)**.
3. **Haider Mehraj**, Dr. Arpit Jain, Dr. Prashant Mani, Andino Maselena and Awab Sheikh (2019). Portable Mini Paint Roller (Indian Design Patent Application Number: 319292-001), Journal No. 32/2019 Dated 09/08/2019, Indian Patent Office. **(Awarded)**.

LIST OF PUBLICATIONS (SCI/SCOPUS INDEXED)

1. Shankar, R., Ramana, T. V., Singh, P., Gupta, S., & **Mehraj, H.** (2022), "Examination of the Non-Orthogonal Multiple Access System Using Long Short Memory Based Deep Neural Network", *Journal of Mobile Multimedia*, 18(2), 451-474. doi:10.13052/jmm1550-4646.18214.
2. **Mehraj, H.**, Jayadevappa, D., Haleem, S. L. A., Parveen, R., Madduri, A., Ayyagari, M. R., & Dhabliya, D. (2021). Protection motivation theory using multi-factor authentication for providing security over social networking sites. *Pattern Recognition Letters*, 152, 218-

224. doi:10.1016/j.patrec.2021.10.002.
3. **Mehraj, H.,** & Mir, A. H. (2021). A multi-biometric system based on multi-level hybrid feature fusion. *Herald of the Russian Academy of Sciences*, 91(2), 176-196. doi:10.1134/S1019331621020039.
 4. Shankar, R., Sarojini, B. K., **Mehraj, H.,** Kumar, A. S., Neware, R., & Singh Bist, A. (2021). Impact of the learning rate and batch size on NOMA system using LSTM-based deep neural network. *Journal of Defense Modeling and Simulation*, doi:10.1177/15485129211049782.
 5. **Mehraj, H.,** & Mir, A. H. (2021). Robust multimodal biometric system based on feature level fusion of optimised deepnet features. *Wireless Personal Communications*, doi:10.1007/s11277-021-09075-x.
 6. **Mehraj, Haider** & Mir, Ajaz (2020). A Survey of Biometric Recognition Using Deep Learning. EAI Endorsed Transactions on Energy Web. 166775. 10.4108/eai.27-10-2020.166775.
 7. **Mehraj, Haider** & Mir, Ajaz. (2021). Person identification using fusion of deep net facial features. *International Journal of Innovative Computing and Applications*. 12. 56. 10.1504/IJICA.2021.113618.
 8. **Mehraj, Haider** and Mir, Ajaz (2020). Feature vector extraction and optimisation for multimodal biometrics employing face, ear and gait utilising artificial neural networks. *International Journal of Cloud Computing*. 9. 131. 10.1504/IJCC.2020.10031532.
 9. **Haider Mehraj** and Ajaz Hussain Mir (2020). Human Recognition using Ear based Deep Learning Features. 2020 International Conference on Emerging Smart Computing and Informatics (ESCI), Pune, India, 2020, pp. 357-360.

OTHER JOURNAL PUBLICATIONS

1. Farkhanda Ana and **Haider Mehraj** (2019). Modeling Of Gate Resistance and its Importance in Switching Circuits: A Review. *IJRAR - International Journal of Research and Analytical Reviews (IJRAR)*, E-ISSN 2348-1269, Volume.6, Issue 1, Page No pp.539-547, February-2019. **(UGC approved/ referred/ peer reviewed/ indexed)**.
2. Sameer Ahmad Mir, Qurat-ul-Ain, Sohrab Khan, Mustafa Ahmad Bhat, **Haider Mehraj** (2018). Person Identification by Lips using SGLDM and Support Vector Machine.

International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), e-ISSN: 2456-3307, Volume 4, Issue 1, pp.152-157, March-April-2018. **(S.No. 1849 of UGC deleted list/peer reviewed/ indexed)**

3. Md Hesam Akhter and **Haider Mehraj** (2018). A Proxy-Based Browsing for Reducing Energy and Latency in Cellular Networks. International Journal of Advance Engineering and Research Development (IJAERD), E-ISSN: 2348-4470, Volume 5 Special Issue 01, Jan 2018. **(S.No. 2232 of UGC deleted list/ referred/ peer reviewed/ indexed)**
4. Mohamad Idris Wani, Bareen Farooqi, Nida Wani, **Haider Mehraj** and Farkhanda Ana (2018). Face Based Gender Classification Using COSFIRE Filter. International Journal of Advance Engineering and Research Development (IJAERD), E-ISSN: 2348-4470, Volume 5 Special Issue 01, Jan 2018. **(S.No. 2232 of UGC deleted list/ referred/ peer reviewed/ indexed).**
5. Junaid Farooq War, **Haider Mehraj**, Arshid Ahmad Bhat, Taseem Nazir, Aaqib Bulla (2018). FPGA Implementation of Zero-Forcing Pre-coding for MIMO WiMAX Transceivers. International Journal of Advance Engineering and Research Development (IJAERD), E-ISSN: 2348-4470, Volume 5 Special Issue 01, Jan 2018. **(S.No. 2232 of UGC deleted list/ referred/ peer reviewed/ indexed).**
6. Arashid Ahmad, **Haider Mehraj**, Aqib Bullah (2018). Performance Analysis and enhancement of WDM optical networks. International Journal of Advance Engineering and Research Development (IJAERD), E-ISSN: 2348-4470, Volume 5 Special Issue 01, Jan 2018. **(S.No. 2232 of UGC deleted list/ referred/ peer reviewed/ indexed).**
7. Taseem Nazir, Khalil Ahmed, Aaqib Hassan Bulla, Junaid Farooq War, **Haider Mehraj** (2018). Distributed Big Table for Relational Database. International Journal of Advance Engineering and Research Development (IJAERD), E-ISSN: 2348-4470, Volume 5 Special Issue 01, Jan 2018. **(S.No. 2232 of UGC deleted list/ referred/ peer reviewed/ indexed).**
8. **Haider Mehraj**, Md Hesam Akhter, Farkhanda Ana, Taseem Nazir, Arashid Ahmed, Junaid Farooq War (2018). Human Gait Recognition: A Review. International Journal of Advance Engineering and Research Development (IJAERD), E-ISSN: 2348-4470, Volume 5 Special Issue 01, Jan 2018. **(S.No. 2232 of UGC deleted list/ referred/ peer reviewed/ indexed).**

9. Mir Yawar Hayat, **Haider Mehraj**, Mir Aadil (2018). Integrating Silicon Photonics. International Journal of Advance Engineering and Research Development (IJAERD), E-ISSN: 2348-4470, Volume 5 Special Issue 01, Jan 2018. **(S.No. 2232 of UGC deleted list/ referred/ peer reviewed/ indexed)**.
10. Mohamad Idris Wani, Bareen Farooqi, Nida Wani, **Haider Mehraj** (2018). Speech Based Gender Classification. International Journal of Advance Engineering and Research Development (IJAERD), E-ISSN: 2348-4470, Volume 5 Special Issue 01, Jan 2018. **(S.No. 2232 of UGC deleted list/ referred/ peer reviewed/ indexed)**
11. Shahbaz Ahmed Sheikh, Sachin Gujral and **Haider Mehraj**, (2016). MEMS Based Modeling and Simulation of an Electrically and Thermally Actuated Micro-Aligning Arrangement. International Research Journal of Engineering and Technology, e-ISSN: 2395-0056, Volume: 03 Issue: 08, 2016. **(Peer reviewed/ indexed)**
12. **M Haider Mehraj** and AH Mir (2012). Lip Based Recognition: A Comparative Analysis. International Journal of Electronics and Communication Technology, e-ISSN: 2230-7109, Volume: 03 Issue: 04, page: 153-157, 2012. **(Peer reviewed/ indexed)**
13. **M Haider Mehraj** and AH Mir (2012). Performance Evaluation of Correlation Energy Filter Based Lip Biometrics.” International Journal of Engineering Research and Technology, ISSN: 2278-0181, Volume: 01 Issue: 08, 2012. **(Peer reviewed/ indexed)**.

Seminars/ Workshops/ Conferences/Training Programs

1. Participated in the one day workshop on Intellectual Property Rights (IPR) organized by institution innovation cell, BGSB University, Rajouri held on 25th January 2019.
2. Participated and presented a paper titled, “Deep Convolutional Neural Network based Face Recognition”, in the International conference on recent Advances in Interdisciplinary Sciences organized by Department of Electronics, University held from 11th -12th January 2019.
3. Attended one week workshop on “Machine Learning: Tools and Technologies”, organized jointly by Department of Computer Science and Engineering and Information Technology and Engineering, BGSB University, Rajouri, J&K from 31st October to 4th November 2018.
4. Attended one week short term course on Sustainable Creativity and Innovation Management in the Institutions through ICT organized by National Institute of Teacher

Training and Research, Chandigarh from 24-09-2018 to 28-09-2018 at BGSB University Rajouri, J&K.

5. Attended five days “TEQIP-III summer training Program on Active Learning”, under the knowledge Incubation under TEQIP (KITE) Initiative of MHRD, Govt. of India, conducted by IIT Bombay from 04th June to 08th June 2018.
6. Participated in International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT-2017) organized by ZHCET (Aligarh Muslim University), Aligarh held from 24-26 November 2017.
7. Participated in training workshop for faculty mentors on induction programme for new students, conducted by NPIU, MHRD New Delhi and organized by PEC University of Technology, Chandigarh from 22-24 September 2017.
8. Participated and presented a paper on “Multimodal Biometrics for enhancement of security systems” in the National Conference on Emerging Trends and Innovations in Electronics and Communication Engineering (ETIECE-2017)” organized by BGSB University, Rajouri held from 26 to 27 August 2017.
9. Participated and presented a paper on “A proxy based browsing for reducing energy and latency in cellular networks” in the National Conference on Emerging Trends and Innovations in Electronics and Communication Engineering (ETIECE-2017)” organized by BGSB University, Rajouri held from 26 to 27 August 2017.
10. Attended Ten days training program on Big Data analytics sponsored by DST and organized by Department of Information Technology, NIT Srinagar from 10th March to 20th March 2017.
11. Participated in International Conference, IEEE Tencon 2016- Technologies for Smart Nation held at Marina Bay Sands, Singapore from 22-25 November 2016.
12. Attended one day RTI capacity building workshop organized by UGC-HRDC, University of Kashmir, Hazratbal held on 01st June 2015.
13. Participated and presented a paper on “Biometrics: A Review” in the 8th *J&K Science Congress* organized by University of Kashmir from 17-09-2012 to 19-09-2012.
14. Attended one day workshop on “Network Security”, organized by Department of Information Technology and Engineering, BGSB University, Rajouri, J&K held on 03rd September 2012.

15. Attended Two weeks online workshop, *Introduction to Research Methodologies* organized by IIT Mumbai under the National Mission on Education through ICT (MHRD, Govt. of India) from 25-06-2012 to 04-07-2012 at NIELIT Srinagar.

Other Achievements:

1. Coordinator/ Convener of National Conference on Emerging Trends and Innovations in Electronics and Communication Engineering (ETIECE-2017)” organized by BGSB University, Rajouri held from 26 to 27 August 2017.
2. Editor of Conference Proceedings of National Conference on Emerging Trends and Innovations in Electronics and Communication Engineering (ETIECE-2017)” organized by BGSB University, Rajouri held from 26 to 27 August 2017.
3. Session Chair of “online technical session” in National Conference on Emerging Trends and Innovations in Electronics and Communication Engineering (ETIECE-2017)” organized by BGSB University, Rajouri held from 26 to 27 August 2017.

Administrative/ Additional Responsibilities:

- Coordinator, Internal Quality Assurance Cell from 5th Feb 2017 to 22nd Sept 2021.
- GATE Coordinator (GATE coaching) since 27-02-2018.

I do hereby declare that the particulars of information and facts stated herein above are true, correct and complete to the best of my knowledge and belief.

Place: Rajouri

Date: 21.05.2022.

Haider Mehraj