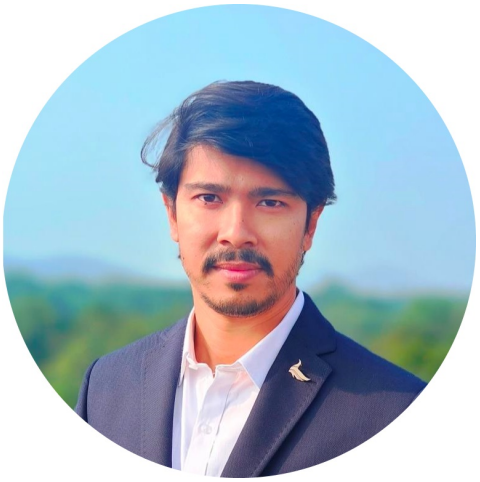

डॉ. सम्बित बक्शी

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Short Biography

Sambit Bakshi is currently with the Department of Computer Science and Engineering, National Institute of Technology Rourkela, India. He also serves as Head of the Centre for Automation Technology at National Institute of Technology Rourkela. His areas of interest include surveillance, biometric security, digital forensics, and social security analytics. He presently serves as associate editor of multiple journals including IEEE Signal Processing Letters, IEEE Transactions on Automation Science and Engineering, Computers and Electrical Engineering, IEEE Transactions on Computational Social Systems, IEEE Transactions on Technology and Society, and IEEE Transactions on Education. He previously served as Associate Editor of IEEE Systems Journal, IEEE IT Professional magazine, IEEE Access, Innovations in Systems and Software Engineering Springer: A NASA Journal, Expert Systems with Applications, Engineering Applications of Artificial Intelligence, Image and Vision Computing, Multimedia Systems, Multimedia Tools and Applications, and Neural Processing Letters, Plos One, and Expert Systems in the past. He is a senior member of IEEE. He is Founding Chair of IEEE Rourkela Subsection and IEEE Kolkata Section Biometrics Council Chapter. He is a distinguished lecturer of IEEE Systems Council for 2023-2025 and distinguished lecturer of IEEE Women in Engineering for 2024-2025. He has published widely in more than 100 journals and conferences.

Jump to...

Education

August 2015 – July 2011 | **Ph.D. in Computer Science and Engineering**
National Institute of Technology Rourkela, India
Thesis Title: *Periocular Localization and Feature Extraction for Human Recognition*
CGPA: 9.01/10

July 2011 – July 2009 | **M. Tech. in Computer Science and Engineering**
National Institute of Technology Rourkela, India
Thesis Title: *Development of Robust Iris Localization and Impairment Pruning Schemes*
CGPA: 9.37/10

2009 | **Graduate Aptitude Test in Engineering (GATE)**
in Computer Science and Engineering
All India Rank: 1679 | Score: 494 | Percentile: 95.99

July 2009 – May 2005 | **B. Tech. in Computer Science and Engineering**
St. Thomas' College of Engineering and Technology
West Bengal University of Technology, India
CGPA: 8.85/10

May 2005 | **12th Level / Higher Secondary / Intermediate / High School Leaving Certificate**
Hindu School, Kolkata, India
West Bengal Council of Higher Secondary Education
Score: 83.20%

May 2003 | **10th level / Matriculation / Madhyamik Examination**
Hindu School, Kolkata, India
West Bengal Board of Secondary Education
Score: 90.63%

Employments and Responsibilities

Present – September 2023 | **Head**
Centre for Automation Technology
National Institute of Technology Rourkela, India

Present – July 2024 | **Associate Professor**
Department of Computer Science and Engineering
National Institute of Technology Rourkela, India

Present – February 2020 | **Assistant Professor Grade - I**
Department of Computer Science and Engineering
National Institute of Technology Rourkela, India

February 2020 – July 2015 | **Assistant Professor Grade - II**
Department of Computer Science and Engineering
National Institute of Technology Rourkela, India

June 2015 – July 2014 | **Ad-hoc Faculty**
Department of Computer Science and Engineering
National Institute of Technology Jamshedpur, India

Teaching

Biometric Systems UG + PG, 8 years	**Database Engineering** UG, 8 years

Research Interests

Biometric Systems	**Visual Surveillance**
Multimedia Forensics	**Social Security Analytics**

Selected Professional Services and Memberships

- Distinguished Lecturer, **IEEE Systems Council**, 2023-2025
- Distinguished Lecturer, **IEEE Women in Engineering**, 2024-2025
- Executive Committee Member, **IEEE Kolkata Section**, 2023
- Founding Chair, **IEEE Kolkata Section Biometrics Council Chapter**, 2023
- **IEEE Featured Author**, 2023
- Representative of **IEEE Computational Intelligence Society** to **IEEE Young Professionals**, 2022
- **IEEE Impact Creator**, 2022 -
- Founding Chair, **IEEE Rourkela Subsection**, 2021
- Senior Member, **IEEE**, 2019 - (Membership number: 92530884)
- Member, **ACM**, 2022 - (Membership number: 4072155)
- Vice-chair, **IEEE CIS Intelligent Systems Applications Technical Committee**, 2019
- Life Member, **Computer Society of India**, 2016 – (Membership number: I1504038)

Selected Editorial Services

- Associate Editor, **IEEE Transactions on Consumer Electronics**
- Associate Editor, **IEEE Transactions on Circuits and Systems for Video Technology**
- Associate Editor, **IEEE Signal Processing Letters**
- Associate Editor, **IEEE Transactions on Automation Science and Engineering**
- Associate Editor, **IEEE Transactions on Computational Social Systems**
- Associate Editor, **IEEE Transactions on Education**
- Associate Editor, **Computers and Electrical Engineering**
- Associate Editor, **Multimedia Tools and Applications, Springer**
- Associate Editor, **Neural Processing Letters, Springer**
- Editorial Board Member, **Engineering Applications of Artificial Intelligence, Elsevier**
- Editorial Board Member, **Multimedia Systems, Springer**
- Associate Editor, **Image and Vision Computing, Elsevier**
- Past Associate Editor, **IEEE Transactions on Technology and Society** (2023 - 2024), **IEEE Systems Journal** [Impact factor: 4.4] (2023 - 2024); **Expert Systems with Applications, Elsevier** [Impact factor: 8.5] (2022 - 2023); **IEEE IT Professional** (2021 - 2023) [Impact factor: 2.6]; **IEEE Access** (2016 - 2022) [Impact factor: 3.476]; **Expert Systems**, Wiley (2018 - 2019) [Impact factor: 2.812]; **Plos One** (2017 - 2020) [Impact factor: 3.752]

Sponsored Projects

[P07] **Establishment of IIT Patna Vishlesan I-Hub Foundation extension center at NIT Rourkela**, funding by *IIT Patna Vishlesan- Hub Foundation under NMICPS*, INR 10.97 Lacs, Duration: 24 months, Nov 2022 - Nov 2024, Status: Ongoing.

[P06] **Computer Vision-based Smart Solutions for UAV Remote Sensing Applications through Semantic Segmentation**, funding by *IIT Patna Vishlesan- Hub Foundation under NMICPS*, INR 8.40 Lacs, Nov 2022 - Nov 2024, Duration: 24 months, Status: Ongoing.

[P05] **Monocular Depth Analysis Controlled GPS Denied AGV Navigation for Seamless Tracking**, funding by *IIT Hyderabad TiHAN under NMICPS*, INR 19.01 Lacs, (Co-Investigator with Dr. Rahul Raman, IIITDM Kancheepuram), May 2022 - Nov 2023, Duration: 18 months, Status: Ongoing.

[P04] **IEEE Computer Society Young Professional Lecture Program**, funded by IEEE Computer Society, USD 11,000.00, Feb 2022 - Dec 2022, Duration: 10 months, Status: Completed.

[P03] **Establishment of Bioinformatics and Computational Biology Centre: Animal Bioinformatics - BIC at National Institute of Technology Rourkela**, funding by *Department of Biotechnology, Ministry of Science and Technology, Government of India*, INR 74.70 Lacs, (Co-Investigator with Dr. Mukesh Kumar Gupta and Dr. Pankaj Kumar Sa), Mar 2021 - Mar 2026, Duration: 60 months, Status: Ongoing.

[P02] **Applications of drone vision using deep learning**, funding by *Technical Education Quality Improvement Programme (TEQIP) - III*, INR 2.00 Lacs, Jan 2020 - Sep 2020, Duration: 09 months, Status: Completed.

[P01] **Deep learning applications for computer vision task**, funding by *NITROAA and NVIDIA Corporation*, INR 6.44 Lacs, May 2019 - May 2020, Duration: 12 months, Status: Completed.

Doctoral Supervision

[D05] **Development of Internet of Medical Things (IoMT) Compliant Brain MRI Classification Techniques**, by Swagatika Devi, 2023 (Co-supervision with Dr. Manmath Narayan Sahoo).

[D04] **Road and Vegetation Extraction from Aerial Images through Semantic Segmentation**, by Tanmay Kumar Behera, 2023.

[D03] **Compressed Multimedia Forgery Detection through Blind Digital Forensics**, by Jamimamul Bakas, 2022 (Co-supervision with Dr. Ruchira Naskar).

[D02] **Novel Periocular Recognition under Non-Cooperative Scenarios**, by Gautam Kumar, 2022.

[D01] **Development of Ear Biometric Systems with Forensic Validation**, by Debbrota Paul Chowdhury, 2021.

[D00] Currently **Eleven** doctoral research scholars are working on various problems of computer vision.

Publications

Journals (94)

[corresponded articles are marked with *]

Just Accepted / Early Access [06]

[J94] V. Kadha, **S. Bakshi***, and S.K. Das, "Unravelling Digital Forgeries: A Systematic Survey on Image Manipulation Detection and Localization," *ACM Computing Surveys*, 2025, DOI: nya.

[J93] A. Satpathy, M.N. Sahoo, C. Swain, P. Bellavista, M. Guizani, K. Muhammad, and **S. Bakshi**, and S.K. Ghosh, "Virtual Network Embedding: Literature Assessment, Recent Advancements, Opportunities, and Challenges," *IEEE Communications Surveys and Tutorials*, 2025, DOI: 10.1109/COMST.2025.3531724.

[J92] C. Ray, **S. Bakshi***, P.K. Sa, and G. Panda, "A resource-efficient deep learning approach to visual-based cattle geographic origin prediction," *Mobile Networks and Applications*, 2024, DOI: 10.1007/s11036-024-02350-8.

[J91] S. Bhunia, **S. Bakshi***, and I. Mukherjee, "Utilizing attention mechanism with exemplar memory for improving domain adaptive person re-identification," *Multimedia Tools and Applications*, 2024, DOI: 10.1007/s11042-024-19270-0.

[J90] N.K.S. Behera, P.K. Sa, **S. Bakshi***, and U. Bilotti, "Explainable graph-attention based person re-identification in outdoor conditions," *Multimedia Tools and Applications*, 2023, DOI: 10.1007/s11042-023-16986-3.

[J89] A. Anand, A. Kar, **S. Bakshi***, and M.N.S. Swamy, "Convex combinations of adaptive filters for feedback cancellation in hearing aids," *Journal of Ambient Intelligence and Humanized Computing*, 2017, DOI: 10.1007/s12652-017-0570-9.

2024 [16]

[J88] N.K.S. Behera, P.K. Sa, K. Muhammad, and **S. Bakshi***, "Large-scale person re-identification for crowd monitoring in emergency," *IEEE Transactions on Automation Science and Engineering* 22, 2025, pp. 4691 - 4699, DOI: 10.1109/TASE.2023.3318007.

[J87] C. Swain, M.N. Sahoo, A. Satpathy, **S. Bakshi**, and S.K. Ghosh, "M-DAFTO: Multi-stage deferred acceptance based fair task offloading in IoT-fog systems," *IEEE Transactions on Services Computing* 17(6), 2024, pp. 3928 - 3941, DOI: 10.1109/TSC.2024.3436648.

[J86] J.K. Rout, K.S. Sahoo, A. Dalmia, **S. Bakshi**, M. Bilal, H. Song, "Understanding large scale network effects in detecting review spammers," *IEEE Transactions on Computational Social Systems* 11(4), 2024, pp. 4994 - 5004, DOI: 10.1109/TCSS.2023.3243139.

[J85] A. Samantra, P.K. Sa, T.N. Nguyen, A.K. Sangaiah, and **S. Bakshi***, "On the usage of neural POS taggers for Shakespearean literature in social systems," *IEEE Transactions on Computational Social Systems* 11(4), 2024, pp. 4707 - 4717, DOI: 10.1109/TCSS.2022.3191340.

[J84] S. Devi, M.N. Sahoo, and **S. Bakshi**, "Explainable reverse verification of goodness of classification of MRI images by clinical expert," *IEEE Journal of Biomedical and Health Informatics* 28(6), 2024, pp. 3258 - 3268, DOI: 10.1109/JBHI.2023.3280184.

[J83] A. Satpathy, M.N. Sahoo, C. Swain, M. Bilal, **S. Bakshi**, and H. Song, "GAMap: A genetic algorithm based effective virtual data center re-embedding strategy," *IEEE Transactions on Green Communications and Networking* 8(2), 2024, pp. 791-801, DOI: 10.1109/TGCN.2023.3345542.

[J82] T.K. Behera, **S. Bakshi***, M.A. Khan, and H.M. Albarakati, "A lightweight multiscale-multiobject deep segmentation architecture for UAV-based consumer applications," *IEEE Transactions on Consumer Electronics* 70(1), 2024, pp. 3740-3753, DOI: 10.1109/TCE.2024.3367531.

[J81] S. Gundreddy, Ramkumar R., R. Raman, K. Muhammad, and **S. Bakshi***, "Perspective distortion model for pedestrian trajectory prediction for consumer applications," *IEEE Transactions on Consumer Electronics* 70(1), 2024, pp. 947-955, DOI: 10.1109/TCE.2023.3318050.

[J80] G. Kumar, **S. Bakshi***, M.A. Khan, and H.M. Albarakati, "Unraveling effects of ocular features on the performance of periocular biometrics," *Journal of Information Security and Applications* 83, 2024, pp. 103772, DOI: 10.1016/j.jisa.2024.103772.

[J79] T.K. Behera, M.A. Khan, **S. Bakshi**, "Brain MR image classification using superpixel-based deep transfer learning," *IEEE Journal of Biomedical and Health Informatics* 28(3), 2024, pp. 1218-1227, DOI: 10.1109/JBHI.2022.3216270.

[J78] I.I. Ganapathi, S.S. Ali, S. Prakash, **S. Bakshi**, and N. Werghi, "B3D-EAR: Binarized 3D descriptors for ear-based human recognition," *Expert Systems with Applications* 249(A), 2024, pp. 123580, DOI: 10.1016/j.eswa.2024.123580.

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[J74] R.P. Padhy, P.K. Sa, F. Narducci, C. Bisogni, and **S. Bakshi**, "Monocular vision aided depth measurement from RGB images for autonomous UAV navigation," *ACM Transactions on Multimedia Computing, Communications, and Applications* 20(2), 2024, pp. 1 - 22, DOI: 10.1145/3550485.

[J73] S.K. Choudhury, P.K. Sa, K.-K.R. Choo, and **S. Bakshi***, "Segmenting foreground objects in a multi-modal background using modified Z-score," *Journal of Ambient Intelligence and Humanized Computing* 15, 2024, pp. 1213-1227, DOI: 10.1007/s12652-017-0480-x.

2023 [12]

[J72] S. Mishra, A.K. Sangaiah, M.N. Sahoo, and **S. Bakshi***, "Pareto-optimal cost optimization for large scale cloud systems using joint allocation of resources," *Journal of Ambient Intelligence and Humanized Computing* 14, 2023, pp. 15375 - 15393, DOI: 10.1007/s12652-019-01601-x.

[J71] G. Olague, R. Pineda, G. Ibarra-Vazquez, M. Olague, A. Martinez, **S. Bakshi**, J. Vargas, and I. Reducindo, "Adversarial attacks assessment of salient object detection via symbolic learning," *IEEE Transactions on Emerging Topics in Computing* 11(4), 2023, pp. 1018 - 1030, DOI: 10.1109/TETC.2023.3316549.

[J70] V.K. Kadha, V.V.N.J.S.L. Nandikattu, **S. Bakshi**, and S.K. Das, "Forensic analysis of manipulation chains: A deep residual network for detecting JPEG-Manipulation-JPEG," *Forensic Science International: Digital Investigation* 47, 2023, pp. 301623, DOI: 10.1016/j.fsidi.2023.301623.

[J69] G. Kumar, **S. Bakshi**, A.K. Sangaiah, and P.K. Sa, "Experimental evaluation of covariates effects on periocular biometrics: A robust security assessment framework," *ACM Journal of Data and Information Quality* 15(2), 2023, pp. 1 – 25, DOI: 10.1145/3579029.

[J68] T.K. Behera, **S. Bakshi**, P.K. Sa, M. Nappi, A. Castiglione, P. Vijayakumar, and B. Gupta, "The NITRDrone dataset to address the challenges for road extraction from aerial images," *Journal of Signal Processing Systems* 95, 2023, pp. 197 – 209, DOI: 10.1007/s11265-022-01777-0.

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[J66] K.K. Jena, S.K. Bhoi, S. Mohapatra, and **S. Bakshi**, "A hybrid deep learning approach for classification of music genres using wavelet and spectrogram analysis," *Neural Computing and Applications* 35, 2023, pp. 11223 – 11248, DOI: 10.1007/s00521-023-08294-6.

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[J63] A. Nanda, R.C. Barik, and **S. Bakshi***, "SSO-RBNN driven brain tumour classification with Saliency-K-means segmentation technique," *Biomedical Signal Processing and Control* 81, 2023, pp. 104356, DOI: 10.1016/j.bspc.2022.104356.

[J62] S. Devi, **S. Bakshi***, and M.N. Sahoo, "Effect of situational and instrumental distortions on the classification of brain MR images," *Biomedical Signal Processing and Control* 79(2), 2023, pp. 104177, DOI: 10.1016/j.bspc.2022.104177.

[J61] J. Bakas, R. Naskar, M. Nappi, and **S. Bakshi***, "Object-based forgery detection in surveillance video using capsule network," *Journal of Ambient Intelligence and Humanized Computing* 14, 2023, pp. 3781 - 3791, DOI: 10.1007/s12652-021-03511-3.

2022 [7]

[J60] G. Kumar, F. Narducci, and **S. Bakshi***, "Knowledge transfer and crowdsourcing in Cyber-Physical-Social systems," *Pattern Recognition Letters* 164, 2022, pp. 210 - 215, DOI: 10.1016/j.patrec.2022.10.027.

[J59] A. Satpathy, M.N. Sahoo, A.K. Sangaiah, C. Swain, **S. Bakshi**, "CoMap: An efficient virtual network re-mapping strategy based on coalitional matching theory," *Computer Networks* 216, 2022, pp. 109248, DOI: 10.1016/j.comnet.2022.109248.

[J58] T.K. Behera, P.K. Sa, M. Nappi, and **S. Bakshi***, "Satellite IoT based road extraction from VHR images through superpixel-CNN architecture," *Big Data Research* 30, 2022, pp. 100334, DOI: 10.1016/j.bdr.2022.100334.

[J57] T.K. Behera, **S. Bakshi***, and P.K. Sa, "Vegetation extraction from UAV-based aerial images through deep learning," *Computers and Electronics in Agriculture* 198, 2022, pp. 107094, DOI: 10.1016/j.compag.2022.107094.

[J56] N.B. Kar, K.S. Babu, and **S. Bakshi***, "Facial expression recognition system based on variational mode decomposition and whale optimized KELM," *Image and Vision Computing* 123, 2022, pp. 104445, DOI: 10.1016/j.imavis.2022.104445.

[J55] N.K.S. Behera, P.K. Sa, **S. Bakshi***, and R. Padhy, "Person re-identification: A taxonomic survey and the path ahead," *Image and Vision Computing* 122, 2022, pp. 104432, DOI: 10.1016/j.imavis.2022.104432.

[J54] D.P. Chowdhury, R. Kumari, **S. Bakshi**, M.N. Sahoo, and A Das, "Lip as biometric and beyond: a survey," *Multimedia Tools and Applications* 2021, pp. 1 - 35, DOI: 10.1007/s11042-021-11613-5.

2021 [8]

[J53] T.K. Behera, **S. Bakshi**, and P.K. Sa, "Aerial data aiding smart societal reformation: Current applications and path ahead," *IEEE IT Professional* 23(3), 2021, pp. 82 - 88, DOI: 10.1109/MITP.2020.3020433.

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[J49] J. Bakas, R. Naskar, and **S. Bakshi**, "Detection and localization of inter-frame forgeries in videos based on macroblock variation and motion vector analysis," *Computers & Electrical Engineering* 89, 2021, pp. 106929, DOI: 10.1016/j.compeleceng.2020.106929.

[J48] C. Swain, M.N. Sahoo, A. Satpathy, K. Muhammad, **S. Bakshi**, J.P.C. Rodrigues, and V.H.C. de Albuquerque, "METO: Matching theory based efficient task offloading in IoT-fog interconnection networks," *IEEE Internet of Things Journal* 8(16), 2021, pp. 12705 - 12715, DOI: 10.1109/JIOT.2020.3025631.

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2020 [10]

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Scientific Reports / Magazines (7)

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Selected Conferences (07)

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Selected Guest Editing in SCI Journals (12)

[GE12] R. Vyas, M. Nappi, A. Del Bimbo, and **S. Bakshi**, Special Issue on Recent trends in Multimedia Forensics, *ACM Transactions on Multimedia Computing, Communications, and Applications*, 2024, DOI: 10.1145/3678473.

[GE11] **S. Bakshi**, I. Bojanova, V. Struc, G.K. Thiruvathukal, and M.D. Marsico, "Special Issue on Five Decades of Biometrics and Video Surveillance: Present Technologies and Future Possibilities," *IEEE Computer*, 2023.

[GE10] **S. Bakshi**, M. Nappi, S. Ricciardi, and R. Guest, "Special Issue entitled 25th ICPR - Computer Vision, Robotics and Intelligent Systems," *Machine Vision and Applications* 33, 2022, pp. 60, DOI: 10.1007/s00138-022-01309-7.

[GE09] M. Nappi, H. Proenca, **S. Bakshi**, and V. Murino, "Guest Editorial Introduction to the Special Issue on Biometrics Based Methods for Healthcare Applications", *Computer Vision and Image Understanding* 224(C), 2022, pp. 103559, DOI: 10.1016/j.cviu.2022.103559.

[GE08] M. Nappi, H. Proenca, G. Guo, and **S. Bakshi**, "25th ICPR - Real-Time Visual Surveillance as-a-Service (VSaaS) for Smart Security Solutions," *IET Biometrics* 11, 2022, pp. 277 - 278, DOI: 10.1049/bme2.12089.

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[GE02] K.-K.R. Choo and **S. Bakshi**, "Ubiquitous Visual Surveillance for Public Security," *Multimedia Tools and Applications* 78, pp. 5535, 2019, DOI: 10.1007/s11042-018-7054-6.

[GE01] A. Elci, **S. Bakshi**, and M.N.Sahoo, "Special issue on 'Resilient Networks : Modeling, Design, and Applications," *Digital Communications and Networks* 4(1), Elsevier, 2018, DOI: 10.1016/j.dcan.2017.10.003.

Selected Workshops Organized

- P.K. Jain, **S. Bakshi**, *Five-Day Short-Term Course on Deep Learning Applications for Smart Cities*, Organised by Department of Computer Science & Engineering, National Institute of Technology Rourkela, sponsored by IEEE Kolkata Section Young Professionals Affinity Group, HDFC Bank, and TIH Vishlesan I-Hub Foundation IIT Patna, 11 - 15 September 2023.
- **S. Bakshi**, U.C. Pati, *2022 International Workshop on Remote Sensing and Societal Applications*, Organised by IEEE Geoscience and Remote Sensing Society (GRSS) Kolkata Chapter and Co-sponsored by IEEE Young Professionals, 28-29 September 2022 [Online].
- P. Terhorst, K. Raja, C. Rathgeb, A. Das, A.F. Sequeira, A. Dantcheva, **S. Bakshi**, R. Ramachandra, N. Damer, Workshop on Fairness in Biometric Systems, in *26th International Conference on Pattern Recognition* (ICPR 2022), 21 - 25 August 2022, Montreal, Canada, [Link].
- **S. Bakshi**, Coordinator, *Short Term Course on 'Biometric Security: Theory and Applications'*, National Institute of Technology Rourkela, 12-17 March 2018 (funded by ISEA Project, DeitY, Government of India).

- **S. Bakshi**, Coordinator, *Short Term Course on 'Biometric Security: Theory and Applications'*, National Institute of Technology Rourkela, 15-19 March 2016 (funded by ISEA Project, DeitY, Government of India).
- **S. Bakshi**, Co-convenor, TEQIP II *Short Term Course on 'Aesthetics of Technical Writing : LaTeX'*, National Institute of Technology Jamshedpur, 10 – 11 Jan 2015.

Recent Speaking / Organizing engagements

- **Panel Discussion** on "The art of research publishing: A tour for early career researchers" on 19 Apr 2024 at *Panel session with IEEE Transaction on Education (ToE) and IEEE transaction on Learning Technologies (TLT) Editors in Chief and Associate Editors* in *IEEE Education Week* during 14 - 20 Apr 2024.
- **IEEE Systems Council Distinguished Lecture** on "The Rise and Rise of Biometric Systems" on 22 Dec 2023 at *Short Term Course on Artificial Intelligence and its Application to Smart Systems* organized by Department of Computer Science & Engineering, National Institute of Technology Delhi, India during 20 - 24 Dec 2023.
- **IEEE Systems Council Distinguished Lecture** on "The Rise and Rise of Biometric Systems" on 01 Nov 2023 at *Department of Computer Science & Engineering, IIITDM Kancheepuram* organized by IIITDM Kancheepuram IEEE Student Branch, India.
- **Invited talk** on "Plethora of Computer Vision In Social Applications" on 27 Mar 2023 at *One Day International Webinar* organized by Department of Computer Science, Government Autonomous College Rourkela, India.
- **Invited talk** on "The Rise and Rise of Biometric Systems" on 18 Mar 2023 at *SOA Weekly Academic Lecture series II* organized by Department of Computer Science & Engineering, Siksha 'O' Anusandhan University, India.
- **Invited talk** on "Plethora of Computer Vision in Social Applications" on 23 Feb 2023 at *One week FDP on Applications of Machine Learning in Social Science Research* organized by Department of Education, Guru Ghasidas Vishwavidyalaya Bilaspur (A Central University), India during 21 – 25 Feb 2023.
- **Invited talk** on "The Rise and Rise of Biometric Systems" at the *International Conference of The Mathematical Society-BHU on Recent Trends in Mathematical and Computational Sciences (RTMCS)* during 03-05 Feb, 2023 at DST-Centre for Interdisciplinary Mathematical Science (CIMS), Banaras Hindu University (BHU).
- **Invited talk** on "AI for biometric applications" on 19 Jan 2023 *National Conference on Machine Learning, Deep Learning and IoT* organized by Department of Computer Science and Information Technology, Guru Ghasidas Vishwavidyalaya, India during 19-20 Jan 2023 (sponsored by Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India).
- **Invited talk** on "Deep Learning and Machine Learning Algorithm for Biometrics" on 19 Nov 2022 in *ATAL Faculty Development Program on Deep Learning and Machine Learning Algorithm in Computer Vision* organized by Department of Computer Science and Engineering, Guru Ghasidas Vishwavidyalaya Bilaspur (A Central University), India during 12 -22 November, 2022.
- **Invited talk** on "Effective Research Strategies" on 02 Oct 2022 in *IEEE Region 10 Career and Leadership Aid Program (CLAP)* organized by IEEE Region 10 Young Professionals during 01 - 02 Oct 2022 (in virtual mode).
- **Invited Talk** on "AI for Biometrics and Applications" in *Short Term course on Recent Trends and Applications in Artificial Intelligence* organized by IIITDM Kancheepuram, India during 14 - 19 March, 2022 (funded by All India Council for Technical Education, Government of India).
- **Invited Talk** on "Introduction to Biometric Security" in *Short Term Training Programme on Information Security* during 06 - 12 January 2022 at Anna University, India (funded by All India Council for Technical Education, Government of India).

- **Invited Talk** on "Introduction to Graph Drawing and Tikz Drawing using LaTeX" in *Short Term Training Program on Technical Writing, Presentation and Scientific Research with Advanced Computing Tools: Hands-On Training* during 6-10 December, 2021 at IIITDM Kancheepuram, India (funded by Department of Science and Technology, Government of India).
- **Invited talk** on "Attacks on biometric systems and mitigation techniques" in *Online Faculty Development Programme on Multimedia and Security* during 16-20 December 2020 at National Institute of Technology Patna, India.
- **Invited Talk** on "At the intersection of biometric and surveillance" in *National seminar on Advances in Information Communication and Computing* (AICC), during 22 Dec 2019 at Government Autonomous College Rourkela, India.
- **Organizing Chair** of 4th International Conference on Advanced Computing, Networking, and Informatics (ICACNI 2016), India, Springer; **Publication chair** of International Conference on Signal, Networks, Computing, and Systems (ICSNCS 2016), Springer, India; **Organizing Chair** of 3rd International Conference on Advanced Computing, Networking, and Informatics (ICACNI 2015), India, Springer; **Publication chair** of International Conference on Advanced Computing, Networking, and Informatics (ICACNI 2014), India;

Declarations

I do hereby declare that the above particulars furnished by me are true to the best of my knowledge and belief.

Date: April 2, 2025
Place: Rourkela, Odisha, INDIA

Dr. Sambit Bakshi