

FACULTY PROFILE

Name : Dr. Vishwanath Kagawade

Associate Professor
Department of AI & ML
Basaveshwar Engineering College (A)
Bagalkot- 587 102



Designation : Associate Professor

Department : Department of Artificial Intelligence & Machine Learning

Employee ID : TMCA007

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Orcid ID : <https://orcid.org/0000-0002-7934-8629>

Scopus ID : 55531941600

Vidwan Id : 125008

Researcher ID (Web of Science) : J-8227-2019

Google Scholar ID : f4E80a0AAAAJ

Qualification : Ph.D

Professional Experience

Teaching experience : 14

Industry experience : 02

Administrative Responsibilities

- Active member of college website design and maintenance
- Active member of Board of studies dept. MCA since 2012.
- Served as member of Board of Examination dept. MCA from 2008 to 20012. Worked as Software Engineer, Unit Force Technology Bangalore, on J2EE for 1.8 years.

No. of Projects Guided

UG : 08

PG : More than 35

Research

Interest Area : Image Processing, Document Analysis, Biometrics, IoT, Cloud

Publications : 15

Journals (with citations) :

1. Vishwanath C. Kagawade and Shanmukhappa A. Angadi, 2021, **“Savitzky–Golay filter energy features-based approach to face recognition using symbolic modeling”**. Pattern Analysis and Applications (2021). *Springer London*. <https://doi.org/10.1007/s10044-021-00991-z>.
2. Vishwanath C. Kagawade and Shanmukhappa A. Angadi, 2021, **“Fusion of Frequency Domain Features of Face and Iris Traits for Person Identification”**, Journal of The Institution of Engineers (India): Series B, 102, pages 987–996 (2021). *Springer India*. <https://doi.org/10.1007/s40031-021-00602-9>.
3. Vishwanath C. Kagawade and Shanmukhappa A. Angadi, 2021, **“VISA: a multimodal database of face and iris traits”**, Multimedia Tools and Applications, 80, 21615–21650 (2021). Springer US. <https://doi.org/10.1007/s11042-021-10650-4>.
4. Vishwanath C. Kagawade and Shanmukhappa A. Angadi, 2019, **“Multi-directional local gradient descriptor: A new feature descriptor for face recognition”**, Image and Vision Computing, Vol. 83–84, 39–50. *Elsevier*. <https://doi.org/10.1016/j.imavis.2019.02.001>.
5. Shanmukhappa A. Angadi and Vishwanath C. Kagawade, 2017, **“A robust face recognition approach through symbolic modeling of polar FFT features”**, Pattern Recognition 71C (2017), pp. 235-248. *Elsevier*. <https://doi.org/10.1016/j.patcog.2017.06.014>.
6. Shanmukhappa Angadi and Vishwanath Kagawade, 2016, **“Face recognition through symbolic modeling and analysis of segmented face images using Savitzky Golay filter features”**,

International Journal of Technology and Science, ISSN (Online) 2350-1111, (Print) 2350-1103 Volume IX, Issue 1, 2016 pp. 50-55.

7. C. S. Vijayashree, Vishwanath C Kagawade, T Vasudev, 2014, **“Estimation of Tilt in Characters and Correction for better Readability by OCR Systems”**, International Journal of Computer Applications (0975 – 8887) Volume 90 – No 13, March 2014.

Conferences

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1. Shanmukhappa A. Angadi and Vishwanath C. Kagawade, 2018, **“Detection of face spoofing using multiple texture descriptors”**, International Conference on Computational Techniques, Electronics and Mechanical Systems (CTEMS'18), K.L.S. Gogte Institute of Technology, Belagavi, Karnataka, India, 21-23 December 2018. *IEEE*. <https://doi.org/10.1109/CTEMS.2018.8769129>.
2. Shanmukhappa A. Angadi and Vishwanath C. Kagawade, 2018, **“Face and iris wavelet feature fusion through canonical correlation analysis for person identification”**, Third International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECOT), 14-15th December 2018, GSSSIETW, Mysore. *IEEE*. <https://doi.org/10.1109/ICEECOT43722.2018.9001636>.
3. Shanmukhappa Angadi and Vishwanath C. Kagawade, 2018, **“Face Recognition Through Symbolic Data Modeling of Local Directional Gradient”**. In: Shetty N., Patnaik L., Prasad N., Nalini N. (eds) Emerging Research in Computing, Information, Communication and Applications. ERCICA 2016. *Springer, Singapore*. https://doi.org/10.1007/978-981-10-4741-1_7.
4. Shanmukhappa Angadi and Vishwanath C. Kagawade, 2017,

- “Iris recognition using Savitzky-Golay filter energy feature through symbolic data modeling”**, 6th IEEE international conference on Advances in Computing, Communications and Informatics (ICACCI 2017), 13-16 September 2017, Manipal University, Karnataka, ISBN: 978-1-5090-6367-3, Jan. 06, 2017. *IEEE*. <https://doi.org/10.1109/ICACCI.2017.8126047>.
5. Shanmukhappa Angadi and Vishwanath Kagawade, 2017, **“Iris recognition: A symbolic data modeling approach using Savitzky-Golay filter energy features”**, International conference on Smart Technologies for Smart Nation, REVA University, Bangalore, ISBN: 978-1-5386-0568-4, 17-19 August 2017. *IEEE*. <https://doi.org/10.1109/SmartTechCon.2017.8358392>.
 6. C. S. Janadri, B. G. Sheeparamatti and V. Kagawade, 2017, **“Multiclass classification of kirlian images using svm technique”**, 2017 International Conference on Advances in Computing, Communications and Informatics (ICACCI), 2017, pp. 2246-2250. *IEEE*. <https://doi.org/10.1109/ICACCI.2017.8126180>.
 7. Kagawade V. C., Vijayashree C.S., Vasudev T., 2014, **“Transformation of Artistic Form Text to Linear Form Text for OCR Systems Using Radon Transform”**, In: Sridhar V., Sheshadri H., Padma M. (eds) Emerging Research in Electronics, Computer Science and Technology. Lecture Notes in Electrical Engineering, vol 248. *Springer, New Delhi*. https://doi.org/10.1007/978-81-322-1157-0_76.
 8. Kagawade V. C., Vijayashree C. S., Vasudev T., 2013, **” Transformation of Artistic Form Text to Linear Form Text for OCR Systems”**, In: Kumar M. A., R. S., Kumar T. (eds) Proceedings of International Conference on Advances in Computing. Advances in Intelligent Systems and Computing, vol 174. *Springer, New Delhi*. https://doi.org/10.1007/978-81-322-0740-5_138.

- Invited Talks** :
- Artificial Intelligence (Hands on session with python and ML), June 2nd to June 6th 2020, Dept. of ECE, BKIT, Bhalki
 - Python Programming, Dept. of Electronics and Instrumentation, BEC, Bagalkot, Workshop, 24th to 30th August 2020
 - Machine Learning based Project Architecture Design, June 15th to 19th June 2020, Dept. of ECE and ISE, BEC, Bagalkot
 - Tools for Image Processing and Pattern Recognition, FDP on Soft Computing Approaches to Pattern, Recognition, REVA UNIVERSITY, School of Computing and Information Technology, Bangalore, 21-23, July 2016.
 - E-Commerce, BCOM III Sem, Shri, Channagirishwar Prasadik Arts and D. D Commerce, College, Mahalingpur, 23, September, 2015.
 - DBMS, BCOM V Sem, Shri Channagirishwar, Prasadik Arts and D. D Commerce College, Mahalingpur, 23, September, 2015
 - Effective Teaching Practices, BEC, placement Cell, Bagalkot, 29-31, January, 2010
 - Effective Teaching Practices, BEC, placement Cell, Bagalkot, 03-5, March, 2012
 - Workshop on “Advanced Network Programming using sockets”, Global Academy of Technology, Bangalore, 17-18, August, 2012
 - Effective Teaching Practices, BEC, Placement Cell, Bagalkot, 15-16, September, 2012.

- Awards and Honors** :
- Topper of NPTEL online certification course on Cloud computing and distributed systems, 2020, IIT Patna.
URL: <https://nptel.ac.in/noc/courses/noc20/SEM1/noc20-cs48/>
 - Proactive member in the overall program of QEEE - 20171. Indian Institute of Technology Madras