

ANJITH GEORGE

CONTACT INFORMATION

Address: JCB Hall of Residence: C 201, IIT Kharagpur
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PROFILE

Highly motivated PhD candidate, with excellent academics and demonstrated expertise in computer vision, machine learning and biometrics. Passionate to dive into the depths of engineering, to learn and apply new concepts in machine learning and pattern recognition.

- **Computer Skills** : C,C++, Python, MATLAB, Unix/Linux/Windows, LaTeX, etc.

RESEARCH INTERESTS

Human Computer Interaction, Gaze Tracking and applications, Biometrics, Computer Vision, Pattern Recognition and Machine Learning, .

EDUCATION

Indian Institute of Technology (IIT) Kharagpur, India. PhD (Ongoing), Image based Gaze tracking and Activity Recognition, July 2012- Current

Indian Institute of Technology (IIT) Kharagpur, India. M. Tech, Instrumentation Engineering, June 2012

- CGPA: 9.17/10

N S S College of Engineering (University of Calicut), Kerala, India. B. Tech, Electrical and Electronics Engineering, June 2010

- Percentage: 80.26

St Mary's HSS Edoor, Kerala, India. 12th

- Percentage: 94.16

St Mary's HSS Edoor, Kerala, India. 10th

- Percentage: 89.0

RESEARCH PROFILE

PhD, IIT Kharagpur

- Design and implementation of a low cost eye gaze tracking system for low resolution images
- Development of a novel framework for biometric identification based on eye movements.
- Development of a framework for gaze based activity recognition.

M. Tech, IIT Kharagpur

- **Main Project:** Design and Implementation of Real-time Algorithms for Eye Tracking and PERCLOS Measurement for on board Estimation of Alertness of Drivers

B. Tech, University of Calicut

- PC controlled wireless security robot with video capture using PIC16F73.

RESEARCH PROJECTS

- **Algorithm Developer** : “Design of an Embedded System for On-board Assessment of the Level of Alertness in Human Driver”, Funded by Department of Electronics and Information Technology (Ministry of Information Technology) Government of India, 2014.
- **Algorithm Developer** : “Fast Fixed Point Algorithms for identifying Alertness and Emotion”, Funded by **Samsung Advanced Institute of Technology (SAIT)** Under Global Research Outreach Program (GRO) 2012.

TEACHING EXPERIENCE

- **Teaching Assistant** (Lab): Control and electronic system design lab (1 term), Embedded Systems Lab (3 terms), Real-time Signal Processing Lab (3 terms).
- **Teaching Assistant** (Theory): Signals and Networks (3 terms), Electrical Technology (4 terms), Digital Signal Processing (1 term), Embedded Systems (1 term).

AWARDS & HONOURS

- **Winner**, BioEye 2015, International Eye Movement based biometrics competition, Organized by IEEE BTAS.
- **Finalist**: Intel India Embedded Challenge 2012.
- Secured 99.2 and 98.1 percentile in Electrical engineering GATE 2010 and GATE 2012.
- **MHRD Fellowship** during PhD (2012-Current)
- **MHRD Fellowship** during M Tech (2010-2012)

JOURNAL PUBLICATIONS

- **A. George**, A. Routray, “A score level fusion method for eye movement biometrics”, *Pattern Recognition Letters*, Elsevier, 2015.
- **A. George**, A. Routray, “Accurate Eye Localization Algorithm for Gaze Tracking in Low Resolution Images”, Revised and submitted to *IET Computer Vision*.
- A. Dasgupta, **A. George**, S. L. Happy, A. Routray, “A Vision Based System for Monitoring the Loss of Attention in Automotive Drivers”, in *IEEE Transactions on Intelligent Transportation Systems*, vol. 14, no. 4, pp.1825-1838, 2013
- A. Dasgupta, **A. George**, S. L. Happy, A. Routray, Tara Shanker, “An on-board vision based system for drowsiness detection in automotive drivers”, in *International Journal of Advances in Engineering Sciences and Applied Mathematics, Springer, Special Issue on Advanced Traffic and Transportation Systems*, vol. 5, no. 2-3, pp. 94-103, 2013
- A. Sengupta, **A. George**, A. Dasgupta, A. Chaudhuri, B. Kabi, A. Routray, “Alertness monitoring system for vehicle drivers using physiological signals”. *Handbook of Research on Emerging Innovations in Rail Transportation Engineering (Book Chapter)*. IGI Global, 2016 (Accepted).

CONFERENCE PUBLICATIONS

- G. Banik, P. Patnaik, **A. George**, A. Routray, “Contextual Priming and Perception Manipulation: An Exploration through Eye-Tracking and Audience Response”, *NAOP Convention 2016, Allahabad*.
- SL Happy, A. Dasgupta, **A. George**, A. Routray, “A video database of human faces under near Infra-Red illumination for human computer interaction applications”, *International Conference on Intelligent Human Computer Interaction (IHCI)*, IEEE, 2012.
- SL Happy, **A. George**, A. Routray, “A real time facial expression classification system using Local Binary Patterns”, *International Conference on Intelligent Human Computer Interaction (IHCI)*, IEEE, 2012.

PATENTS

- “A SYSTEM FOR REAL-TIME ASSESSMENT OF ALERTNESS LEVEL OF HUMAN BEINGS”, A. Routray, A. Dasgupta, **A. George**, SL Happy, 634/KOL/2013, IN, 2013

ACTIVITIES

- Student member IEEE
- Student Member, Signal Processing Society, IEEE
- Member, COGAIN

**PERSONAL
PROFILE**

- **Permanent Address:** Thannikkappara House,
Payam P. O.,
Kolikkadavu via, Kannur,
Kerala. PIN: 670704
- **Date of Birth:** 2nd May 1989
- **Nationality:** Indian
- **Marital Status :** Married
- **Passport Details:** Valid till 12.10.2025

Declaration

I hereby certify that the above mentioned particulars are correct up to the best of my knowledge and I bear the responsibility for the correctness of the above mentioned particulars.

(Anjith George)