THRUPTHI ANN JOHN

CONTACT

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AWARDS

• Visvesvaraya Ph.D. Scheme for Electronics and IT
• Microsoft Garage India AI Network Summit Hackathon -3rd place

LIBRARIES/LANGUAGES

Python • MATLAB • C++ • C# • Javascript • Lua • Java etc.
PyTorch • OpenCV • ScikitLearn etc

RELEVANT COURSEWORK

Computer vision • Optimization methods • Machine learning • Digital image processing • Statistical methods in AI

REFERENCES

Prof. C. V. Jawahar
Email: jawahar@iiit.ac.in

Prof. Vineeth N Balasubramanian
Email: vineethnb@iith.ac.in

PUBLICATIONS AND PATENTS (SELECTED)

- **Thrupthi Ann John,** Vineeth N Balasubramanian and C. V. Jawahar, *"Explaining Deep Face Algorithms Through Visualization: A Survey,"* in *IEEE Transactions on Biometrics, Behavior, and Identity Science*, (IEEE T-BIOM) 2023
- **Thrupthi Ann John**, Isha Dua, Vineeth N Balasubramanian, C. V. Jawahar. *"ETL: Efficient Transfer Learning for Face Tasks"*, 17th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISAPP) 2022
- **Thrupthi Ann John**, Vineeth N Balasubramanian, C V Jawahar. *"Canonical Saliency Maps: Decoding Deep Face Models.***"** IEEE Transactions in Biometrics, Behaviour and Identity Science, (IEEE T-BIOM) 2021
- Patent filed: *System and Method for Generating Gaze Mapping Dataset and Predicting Gaze Point on Environment.* Inventors: C V Jawahar, Isha Dua, **Thrupthi Ann John**
- Isha Dua, **Thrupthi Ann John**, Riya Gupta, C V Jawahar "DGAZE: Driver Gaze Mapping on Road", IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2020,

DATABASE CONTRIBUTIONS

- **DGaze**: simulated driver gaze dataset link
- **DashGaze:** Large-scale naturalistic appearance-based driver gaze estimation through dash-cam.

TALKS/TEACHING ACTIVITIES (SELECTED)

- Content creation and talk on labs in the 'Two-week Executive Training Program on AIML' 2023 by iHub-Data for DRDO scientists.
- Talk on 'Explainable AI For Faces' at Mercedes Benz RnD India
- Content creation and TA for Foundations in Modern Machine Learning course by iHub and CVIT
- Content creation and talk on labs on Generative Adversarial Networks for CVIT Machine Learning Summer School and Computer Vision Summer School in 2017 and 2018

SELECTED PROJECTS

Daredevil: Navigation system for the visually impaired that turns images into sound
Feature selection for Instance Retrieval: Image retrieval on low-resource hardware by formulating vocabulary pruning as convex optimization

EXPERIENCE

Research Assistant:
International Institute of Information Technology Hyderabad (July 2013 – Decmeber 2014)
Software Development Engineer in Test:
Microsoft India R&D Pvt. Ltd. (June 2011 – June 2013)

EDUCATION

Ph.D. Computer Science (January 2019 – Present)
International Institute of Information Technology Hyderabad
Thesis title: Interpretation and Analysis of Deep Face Algorithms: Methods and Applications (CGPA 8.86/10)
MS in Computer Science (January 2015 – December 2019)
International Institute of Information Technology Hyderabad
Bachelor of Technology in Computer Science (2007-2011)
National Institute of Technology Warangal (CGPA 8.00/10)
High School (Science)
Our Own English High School, Sharjah, U.A.E (86%)