

# Eye Motion Tracking

**Mr. Anjan Sundeep Thakur<sup>1</sup>, Mr. Ansh Sanjeev Thakur<sup>2</sup>, Mr. Parth Pradhresh Patil<sup>3</sup>,  
Mrs. Pournima Kamble<sup>4</sup>**

Students, Department of Computer Technology<sup>1,2,3</sup>

Mentor, Department of Computer Technology<sup>4</sup>

Bharati Vidyapeeth Institute of Technology, Navi Mumbai, India

**Abstract:** *Developing an Eye Motion Tracking system which uses various digital elements to help paralysed patients communicate. The main concept of this project to build a software, which should allow paralysed patients to communicate with others just by using their eyes. This is simple, safe and secure method that take minimum efforts and also is economical. It makes use of digital elements hence it is cheaper and also helps aiding our society.*

**Keywords:** Patient, Digital Keyboard, Camera, Eyes, Digital Screen

## REFERENCES

- [1]. Seyyed Saleh Mozaffari Chanijani DFKT GmbH, German Research Center for Artificial Intelligence University of Kaiserslautern “An eye movement study on scientific papers using wearable eye tracking technology”
- [2]. Published in: 2016 Ninth International Conference on Mobile Computing and Ubiquitous Networking (ICMU)
- [3]. Jiannan Chi School of Automation and Electrical Engineering, University of Science and Technology Beijing, Beijing, China “A Novel Multi-Camera Global Calibration Method for Gaze Tracking System”
- [4]. Published in: IEEE Transactions on Instrumentation and Measurement (Volume: 69, Issue: 5, May 2020)
- [5]. Jiahui Liu School of Automation and Electrical Engineering, University of Science and Technology Beijing, Beijing, China “Iris Feature-Based 3-D Gaze Estimation Method Using a One-Camera-One-Light-Source System” Published in: IEEE Transactions on Instrumentation and Measurement (Volume: 69, Issue: 7, July 2020)
- [6]. Jianfeng Li Graduate School of Engineering, Tottori University, Tottori, Japan “Two-phase approach — Calibration and iris contour estimation — For gaze tracking of head-mounted eye camera” Published in: 2016 IEEE International Conference on Image Processing (ICIP)