



**RESEARCH ARTICLE**

# **Fast and Efficient Automated Iris Segmentation by Region Growing**

**Ms. Sruthi.T.K**

Post Graduate Scholar, Department of Computer Science & Engineering, Nehru College of Engineering & Research Center, Thrissur, Kerala, India

*sruthimenon48@gmail.com*

---

***Abstract— Remote human identification using iris biometrics has high civilian and surveillance applications and its success requires the development of robust segmentation algorithm to automatically extract the iris region. Here, a new iris segmentation framework based on region based segmentation has been employed, which can robustly segment the iris images acquired using near infrared or visible illumination. This approach exploits multiple higher order local pixel dependencies to robustly classify the eye region pixels into iris or non-iris regions. The experimental results provide significant improvement in the segmentation accuracy.***

***Key Terms: - iris recognition; biometrics; iris segmentation; region based segmentation; circular hough transform***

---