

## Accepted Manuscript

### 3D Gaze Estimation without Explicit Personal Calibration

Kang Wang, Qiang Ji

PII: S0031-3203(18)30043-8  
DOI: [10.1016/j.patcog.2018.01.031](https://doi.org/10.1016/j.patcog.2018.01.031)  
Reference: PR 6440

To appear in: *Pattern Recognition*

Received date: 26 July 2017  
Revised date: 24 January 2018  
Accepted date: 28 January 2018

Please cite this article as: Kang Wang, Qiang Ji, 3D Gaze Estimation without Explicit Personal Calibration, *Pattern Recognition* (2018), doi: [10.1016/j.patcog.2018.01.031](https://doi.org/10.1016/j.patcog.2018.01.031)



This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Highlights**

- A non-intrusive and user-friendly eye gaze tracking system is proposed.
- Personal eye parameters can be implicitly calibrated with natural constraints.
- Propose the hard-EM algorithm to solve the constrained unsupervised regression problem.
- The proposed method achieves comparable gaze estimation accuracy with state-of-the-art implicit calibration methods, while is less restricted and can be applied to a wider range of practical applications.

Download English Version:

<https://daneshyari.com/en/article/6938995>

Download Persian Version:

<https://daneshyari.com/article/6938995>

[Daneshyari.com](https://daneshyari.com)