

Pranjal Protim Borah

[Doctoral Candidate]

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Research Interests

My current research focuses on understanding users with visual impairment and their interaction with deformable user interfaces. My primary research interests span human-computer interaction (HCI), accessible technology and shape-changing devices.

Education

M.Tech. in Computer Science and Engineering
Assam Don Bosco University,
Assam, India.

Aug. 2012 – Jul. 2014
Percentage: 83%

B.E. in Computer Science and Engineering
Jorhat Engineering College,
Assam, India.

Aug. 2006 – Jul. 2010
Percentage: 78%

Work Experience

Assistant Professor,
Department of Computer Science and Engineering,
Royal Global University, Assam, India.

3 Years
Jul. 2014 – Jun. 2017

Lecturer Part-time,
Department of Computer Science and Engineering,
Royal Global University, Assam, India.

2 Years
Jul. 2012 – Jun. 2014

Lecturer,
Department of Computer Science and Engineering,
Royal Global University, Assam, India.

1 Year
Jul. 2011 – Jun. 2012

Publications [\[Google Scholar\]](#)

- [1] **P. P. Borah.** "Deformation Gesture-based Input Method for Non-visual Primitive Geometric Shape Drawing". In Proceedings of *the Fourteenth International Conference on Tangible, Embedded, and Embodied Interaction*. ACM, 2020.
- [2] **P. P. Borah, A. Panigrahi & K. Sorathia.** "TMOVE: Multimodal Feedback Actuator for Non-visual Exploration of Virtual Lines". In Proceedings of *the Fourteenth International Conference on Tangible, Embedded, and Embodied Interaction*. ACM, 2020.
- [3] **P. P. Borah, & K. Sorathia.** "Direct Observation of Tactile Geometric Drawing by Visually Impaired and Blind Students". In Proceedings of *Indian Conference on Human-Computer Interaction*. ACM, 2019.

- [4] **P. P. Borah**, & K. Sorathia. "Natural and Intuitive Deformation Gestures for One-handed Landscape Mode Interaction". In Proceedings of *International Conference on Tangible, Embedded, and Embodied Interaction (TEI)*. ACM, 2019.
- [5] **P. P. Borah**, G. Talukdar, & A. Baruah. "WSD for Assamese Language". In *Recent Developments in Machine Learning and Data Analytics*. Springer, 2018.
- [6] G. Talukdar, **P. P. Borah**, & A. Baruah. "Assamese Named Entity Recognition System Using Naive Bayes Classifier". In Proceedings of *International Conference on Advances in Computing and Data Sciences*. Springer, 2018.
- [7] P. Saxena, N. Gupta, S. Y. Laskar, & **P. P. Borah**. "A Study on Automatic Detection and Recognition Techniques for Road Signs". *International Journal of Computational Engineering Research (IJCER)*, V-5 (12), 2015.
- [8] **P. P. Borah**, G. Talukdar, & A. Baruah. "Assamese Word Sense Disambiguation Using Supervised Learning". In Proceeding of *International Conference on Contemporary Computing and Informatics (IC3I)*. IEEE, 2014.
- [9] **P. P. Borah**, G. Talukdar, & A. Baruah. "Approaches for Word Sense Disambiguation– a Survey", *International Journal of Recent Technology and Engineering (IJRTE)*, V-3 (1), 2014.
- [10] G. Talukdar, **P. P. Borah**, & A. Baruah. "Supervised Named Entity Recognition in Assamese Language". In Proceedings of *International Conference on Contemporary Computing and Informatics (IC3I)*. IEEE, 2014.
- [11] G. Talukdar, **P. P. Borah**, & A. Baruah. "A survey of named entity recognition in Assamese and other Indian languages", *International Journal on Natural Language Computing (IJNLC)* V-3, 2014.

Funding

- ACM SIGCHI Student Travel Grant, 2020.
- ACM SIGCHI Gary Marsden Student Development Fund, 2019.

February 2020