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Publications

Publications based on the Thesis Works

Book Chapter

1. A. Saikia and S. M. Hazarika. Solving a Maze: Experimental Exploration on Wayfinding Behavior for Cognitively Enhanced Collaborative Control. In A. Agrawal *et al.* (Eds.), *Intelligent Interactive Technologies and Multimedia* (pp. 163-177). Springer Berlin Heidelberg, 2013.

Journal

1. A Saikia and S. M. Hazarika. The cBDI: Towards an Architecture for Human-Machine Collaboration. *International Journal of Social Robotics (IJSR)*. (Under Review)
2. A.Saikia and S. M. Hazarika. Finding a Way around a Maze: A Pilot study on Human Wayfinding in View-Based Navigation. *Frontiers in Psychology*. (Communicated)
3. A. Saikiaa, Md. A. Khana, S. Puspha, S. I. Tauhidia, R. Bhattacharyyaa, S. M. Hazarika, J. Q. Gan.cBDI-based Collaborative Control for a Robotic Wheelchair, *Procedia Computer Science*. (To Appear)

Workshop

1. A. Saikia, R. Bhattacharyya, S. M. Hazarika. Towards a Cognitive Agent for Collaborative Control of an Intelligent Wheelchair (abstract), *International IEEE/EPSCRC Workshop on Autonomous Cognitive Robotics*, 2014, University of Stirling, Stirling, UK.
2. A. Saikia, S. M. Hazarika. cBDI-based Architecture for Cognitive Collaborative Control of an Intelligent Wheelchair. *ACM-W Regional Celebration of Women in Computing, East and North-East*, 2015, IIT-G, IN.

Other Publications

1. A. Saikia and S. M Hazarika. Bispectrum Analysis of EEG during Observation and Imagination of Hand Movement, Students' Technology Symposium (TechSym), pp.128-133, IEEE, 2011.
2. A. Saikia and S. M Hazarika. Bispectrum Analysis of EEG in Estimation of Hand Movement First International Conference on Advances in Computing and Communications, pp 109-118, Springer-Verlag, 2011.
3. A. Saikia , N. M Kakoty and S. M Hazarika. Wavelet Selection for EMG based Grasp Recognition through CWT. First International Conference on Advances in Computing and Communications, pp. 1116-1125, Springer-Verlag, 2011.
4. S. M Hazarika, A. Saikia, S. Bordoloi, U. Sharma and N. Kotoky. Brain Computer Interface as Sensor for Ambient Intelligent Living: A Position Paper. Proc. of International Conference on Intelligent Infrastructure: 47th Annual National Convention of CSI. December 2012.
5. N. M Kakoty, A. Saikia and S. M Hazarika. Exploring a Family of Wavelet Transforms for EMG based Grasp Recognition. Journal of Signal Image and Video Processing, Vol. 9, No. 3, pp. 553-559, Springer, 2015.