

Curriculum Vitae

Tarun Kumar Bera did his graduation, Bachelor of Mechanical Engineering (B.E.), from N.I.T. (formerly R.E.C.), Silchar, Assam in the year 1995. After that he has worked for about two years at Greaves Limited, Falta, West Bengal as a Production Engineer. He obtained his Master of Engineering (M.E.) degree from Bengal Engineering and Science University (formerly B.E. College (DU)), Shibpur in the year 2001. After that he served as a faculty in the Mechanical Engineering Department of Birbhum Institute of Engineering & Technology, Suri, Birbhum, West Bengal. In the year 2008, he joined in the Ph.D. Programme at IIT, Kharagpur as a scholar to pursue research work in the area of bond graph modelling and control of parallel manipulators. Following are the list of papers published and communicated, from the present research work:

In Journals

1. Bera T. K., Samantaray A. K., and Karmakar R., "Robust overwhelming control of a hydraulically driven 3-degrees-of-freedom parallel manipulator through a simplified fast inverse model", Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering, Vol. 224, No. 2, pp. 169–184, 2010.
2. Bera T. K., Bhattacharya K., and Samantaray A. K., "Evaluation of antilock braking system with an integrated model of full vehicle system dynamics", Simulation Modelling Practice and Theory, Elsevier, Vol. 19, No. 10, pp. 2131–2150, 2011.
3. Bera T. K., Bhattacharya K., and Samantaray A. K., "Bond graph model based evaluation of a sliding mode controller for combined regenerative and antilock braking system", Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering, DOI: 10.1177/2041304110394558 (In press).
4. Bera T. K., and Samantaray A. K., "Consistent bond graph modelling of planar multibody systems", World Journal of Modelling and Simulation, (In press).
5. Bera T. K., and Samantaray A. K., "Bond Graph Model-Based Inversion of Parallel Manipulator Systems", International Journal of Modelling and Simulation, (In press).
6. Bera T.K., Samantaray A.K., Karmakar R., "Bond Graph Modeling of Planar Prismatic Joints", Mechanism and Machine Theory, Elsevier, (In press).
7. Bera T. K., and Samantaray A. K., "Force Control by Impedance Control of parallel manipulators", Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering, (under review).

In Proceedings of Conferences

1. Bera T. K., Samantaray A.K. and Karmakar R., "Bond Graph Modeling of Planar Prismatic Joints", NaCoMM, 2009, Durgapur, pp. 22–26.

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