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Search or Article-id (Help | Advanced search) arXiv.org > cs > arXiv:1107.5108 - Go! All papers Computer Science > Systems and Control Download: PDF **Cooperative Estimation of 3D** PostScript Other formats **Target Motion via Networked** Current browse context: Visual Motion Observer cs.SY < prev | next > new | recent | 1107 Takeshi Hatanaka, Masayuki Fujita Change to browse by: (Submitted on 26 Jul 2011) cs math This paper investigates cooperative estimation of 3D target object motion for math.OC visual sensor networks. In particular, we consider the situation where multiple smart vision cameras see a group of target objects. The objective here is to **References & Citations** meet two requirements simultaneously: averaging for static objects and NASA ADS tracking to moving target objects. For this purpose, we present a cooperative estimation mechanism called networked visual motion observer. We then **DBLP** - CS Bibliography derive an upper bound of the ultimate error between the actual average and listing | bibtex the estimates produced by the present networked estimation mechanism. Takeshi Hatanaka Moreover, we also analyze the tracking performance of the estimates to Masayuki Fujita moving target objects. Finally the effectiveness of the networked visual motion Bookmark(what is this?) observer is demonstrated through simulation.

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