



**Simultaneous Tracking and Shape Estimation of  
Extended Objects (Karlsruhe Series on Intelligent  
Sensor-Actuator-Systems / Karlsruher Institut fuer  
... Laboratory) (Volume 13)**

*Marcus Baum*

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This work is concerned with the simultaneous tracking and shape estimation of a mobile extended object based on noisy sensor measurements. Novel methods are developed for coping with the following two main challenges: i) The computational complexity due to the nonlinearity and high-dimensionality of the problem, and ii) the lack of statistical knowledge about possible measurement sources on the extended object.

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