

## Classic Training of a Neural Observer for Estimation Purposes

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**Abstract :** This paper investigates the training of multilayer neural network using the classic approach. Then, for estimation purposes, we suggest the use of a specific neural observer that we study its training algorithm which is the back-propagation one in the case of the disponibility of the state and in the case of an unmeasurable state. A MATLAB simulation example will be studied to highlight the usefulness of this kind of observer.

**Keywords :** training, estimation purposes, neural observer, back-propagation, unmeasurable state

**Conference Title :** ICEET 2015 : International Conference on Electrical Engineering and Technology

**Conference Location :** Paris, France

**Conference Dates :** February 23-24, 2015