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A neural network implementing optimal  
state estimation based on dynamic spike  
train decoding Omer Bobrowski<sup>1</sup>, Ron  
Meir<sup>1</sup>, Shy Shoham<sup>2</sup> and Yonina C.  
Eldar<sup>1</sup> Department of Electrical  
Engineering<sup>1</sup> and Biomedical

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A neural network based state estimator  
for a general class of nonlinear dynamic  
system is proposed. The proposed state



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estimator uses cascading of a recurrent  
neural network structure (RNN) which  
learns the internal behavior of the  
dynamical system and a feedforward  
neural network (RNN)...

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of Nonlinear Systems ...

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based pseudo-measurement postulating  
module, and a prox-linear net-based real-  
time state estimation module.

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A neural network implementing optimal  
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Abstract- Accurate estimation of state of  
the charge (SOC) is vital for electric

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vehicle batteries. This paper presents a novel method to estimate the SOC based on a neural network which can be programmed into a low cost microcontroller. The microcontroller monitors the battery voltage and takes four

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ffects ideas from statistics within a deep  
neural network ar-chitecture for gaze  
estimation, based on eye images. Such a  
formulation seeks to speci?cally utilize  
information regard-ing the hierarchical  
structure of the training data — each node



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in the hierarchy is a user who provides  
tens or hundreds of repeated samples.

Dissipativity-based state estimation of  
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In this paper, an improved proportional-  
integral (PI) estimator is presented to  
analyze the problem of  $H_2$  performance

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state estimation of static neural networks with disturbance. An exponential gain term is added to the PI estimator, which leads to the convenience of analysis and design.

State-of-charge estimation of lithium-ion battery using an ...

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The lack of online information on some bioprocess variables and the presence of model and parametric uncertainties pose significant challenges to the design of efficient closed-loop control strategies. To address this issue, this work proposes an online state estimator based on a Radial Basis Function (RBF) neural

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Estimation of ...

Abstract. This chapter is concerned with  
the network-based  $\mathscr{H}_{\infty}$

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} \) state estimation problem for neural networks. Because of network constraints, we consider that transmitted measurements suffer from the sampling effect, external disturbance, network-induced delay, and packet dropout, simultaneously.

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A Novel Estimation Method for the State  
of Health of Lithium-Ion Battery Using  
Prior Knowledge-Based Neural Network  
and Markov Chain Abstract: The state of  
health (SOH) of lithium-ion batteries  
(LIBs) is a critical parameter of the

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H? performance state estimation of  
delayed static neural ...

Recently, with the ever-increasing  
computing power provided by graphic  
processing units, the neural network-  
based methods have gained more and

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more attentions. In this paper, a recurrent neural network with gated recurrent unit is proposed to estimate the battery SOC from measured current, voltage, and temperature signals.

Deep-Learning-Based Neural Network  
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State-of-charge estimation of lithium-ion  
battery using an improved neural  
network model and extended Kalman

filter Author links open overlay panel

Cheng Chen <sup>a</sup> Rui Xiong <sup>a</sup> Ruixin Yang  
<sup>a</sup> <sup>b</sup> Weixiang Shen <sup>b</sup> Fengchun Sun <sup>a</sup>

Neural Network Based State of Charge

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(SOC) Estimation of ...

The following paper presents the state variables estimation algorithm based on a set of off-line trained, feedforward, sigmoid neural networks [9, 11,12,15]. The main advantages of this technique ...

Neural Network-Based State Estimation

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Estimation Of Nonlinear  
for a Closed-Loop ...

The neural network (NN) is an effective way to estimate SOH. Ref.[7] presented a model based on EIS, and describes a method of SOH monitoring, which uses recurrent neural network to predict the deterioration in battery performance.

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Neural Network Based State Estimation  
of Dynamical Systems ...

Neural Network-Based State Estimation  
of Nonlinear Systems: Application to  
Fault Detection and Isolation (Lecture  
Notes in Control and Information  
Sciences) [Heidar A. Talebi, Farzaneh  
Abdollahi, Rajni V. Patel, Khashayar

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Detection And Isolation [Khorasani] on Amazon.com. \*FREE\*  
shipping on qualifying offers. This text  
offers neural network schemes for state  
estimation, system identification and  
fault detection.

State of Charge and State of Health  
Estimation for Lithium ...

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State of Charge and State of Health  
Estimation for Lithium Batteries Using  
Recurrent Neural Networks Abstract:  
This paper presents an application of  
dynamically driven recurrent networks  
(DDRNs) in online electric vehicle (EV)  
battery analysis.

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Enhancement: Application to Attitude  
Estimation Abstract: Achieving precise  
state estimation is needed for the  
unmanned aerial vehicle to perform a



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successful flight with a high degree of  
stability.

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