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Recently, with the ever-increasing computing power provided by graphic processing units, the neural network-based methods have gained more and more attentions. In this paper, a recurrent neural network with gated recurrent unit is proposed to estimate the battery

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SOC from measured current,
voltage, and temperature signals.**

**State-of-charge estimation of
lithium-ion batteries based ...
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Network Training for State
Estimation Enhancement:**

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Application to Attitude Estimation

Abstract: Achieving precise state estimation is needed for the unmanned aerial vehicle to perform a successful flight with a high degree of stability.

Recurrent Neural Network Based

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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 (DDRN) in
online electric vehicle (EV) battery

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

**The lack of online information on
some bioprocess variables and the
presence of model and parametric
uncertainties pose significant**

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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 network that operates in closed loop together with a control law derived on a ...

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Dissipativity-based state estimation
of delayed static neural networks
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Yanchai a Wang Ting b Chen
Mengshen b Shen Hao b Wang**

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**A Novel Estimation Method for the
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fects ideas from statistics within a
deep neural network ar-chitecture
for gaze estimation, based on eye

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images. Such a formulation seeks to specifically utilize information regarding the hierarchical structure of the training data — each node in the hierarchy is a user who provides tens or hundreds of repeated samples.

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**Network-Based [equation] State
Estimation for Neural ...**

**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)**

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is a critical parameter of the battery management system.

(PDF) ScienceDirect A neural network based state-of-health ... To address these challenges, this paper puts forth a novel deep neural network (DNN)-based

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computational framework for DSSE that consists of two modules: a deep recurrent neural network (RNN) based pseudo-measurement postulating module, and a prox-linear net-based real-time state estimation module.

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**Deep-Learning-Based Neural
Network Training for State ...**

**A neural network implementing
optimal state estimation based on
dynamic spike train decoding Omer
Bobrowski¹, Ron Meir¹, Shy
Shoham² and Yonina C. Eldar¹
Department of Electrical**

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Engineering2 Technion, Haifa
32000, Israel

A Neural Network Based State-of-Health Estimation of ...
Abstract. This chapter is concerned with the network-based \(\mathscr

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$\{H\}_{\infty}$ 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,

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**Dissipativity-based state estimation
of delayed static ...**

**In this paper, an improved
proportional-integral (PI) estimator
is presented to analyze the problem
of H^{∞} performance state estimation**

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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.

Neural Network Based State of Charge (SOC) Estimation of ...

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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

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Estimation 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

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performance.
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**Article in IEEE Transactions on
Instrumentation and Measurement .
February 2019 ...**

**State of Charge and State of Health
Estimation for Lithium ...
PDF | As one of the main promising
power sources in electric vehicles**

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Neural Network Based State Estimation of Dynamical Systems ...
Neural Network-Based State

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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 Khorasani] on Amazon.com. *FREE* shipping on qualifying offers. This text offers

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A neural network implementing optimal state estimation ...

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Abstract- Accurate estimation of state of the charge (SOC) is vital for electric 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

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battery voltage and takes four
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**Deep-Learning-Based Neural
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State-of-charge estimation of
lithium-ion battery using an
improved neural network model and
extended Kalman filter Author links**

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open overlay panel Cheng Chen a
Rui Xiong a Ruixin Yang a b
Weixiang Shen b Fengchun Sun a

**Neural Network Based State
Estimation**
A neural network based state

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estimator for a general class of nonlinear dynamic system is proposed. The proposed state estimator uses cascading of a recurrent neural network structure (RNN) which learns the internal behavior of the dynamical system and a feedforward neural network

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(RNN)...
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