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Estimation

Neural Network-Based State
Estimation for a Closed-Loop Control
Strategy Applied to a Fed-Batch
Bioreactor The lack of online
information on some bioprocess
variables and the presence of model
and parametric uncertainties pose

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Estimation Of Nonlinear
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Neural Network-Based State
Estimation for a Closed-Loop ...

A neural network based state
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 (RNN)
which learns the measuring relations
of the system from the input-output
data through prediction error
minimization.

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Neural Network Based State

Estimation of Dynamical Systems ...

The experimental results indicate that the proposed neural network based estimation method can present accuracy and suitability for SOH estimation with low computation cost.

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Keywords: Lithium-ion Battery; State-of-health; Parameter Identification; Neural Networks.

A Neural Network Based State-of-Health Estimation of ...

This paper points out the application of artificial neural network for short term load forecasting where the projected loads are utilized to define a discrete time state

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Estimation model (i.e., process model). The model is applied to estimate states dynamically and to generate pseudo measurements. Weights of neural network are not treated static and would be carried out under reevaluation alongside the estimation of state vector dynamically.

Neural network based power system
dynamic state estimation ...

Lecture Notes in Control and
Information Sciences Neural Network-
Based State Estimation of Nonlinear
Systems Presents both the Linear-in-
Parameter Neural Network based
observer and the Nonlinear-in-
Parameter Neural Network based
observer approaches to nonlinear
systems

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Neural Network-Based State
Estimation of Nonlinear Systems ...
Network-based state estimation for
neural networks using imperfect
measurement 1. Introduction. The
study on nonlinear systems have been

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becoming more and more important
because nonlinear phenomena... 2.

Preliminaries. Consider the following
neural networks : (1) $\dot{x}(t) = -Ax(t) + Bf(x(t))$

Network-based H_∞ state estimation
for neural networks ...

This study is concerned with the state
estimation issue for a kind of delayed
artificial neural networks with
multiplicative noises. The occurrence
of the time delay is in a random way
that is modeled by a Bernoulli
distributed stochastic variable whose
occurrence probability is time-varying
and confined within a given interval.

Dynamic event-based state estimation
for delayed ...

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Neural Network-Based State
Estimation of Nonlinear ...

Neural Network Based State of Charge
(SOC) Estimation of Electric Vehicle
Batteries J.A.K.S. Jayasinghe, K.K.K.D.
Nadishan Department of Electronic
and Telecommunication Engineering,
University of Moratuwa, Sri Lanka

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

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

Neuronal state estimation of neural

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networks is a fundamental issue,
aiming at estimating neuronal states
from contaminated neural
measurement outputs.

State Estimation for Static Neural
Networks With Time ...

This study presents a nonlinear state
estimator based on recurrent neural
network (RNN) which uses a PI Elman
neural network (PI-ENN) structure for
state estimation of a squirrel-cage
induction...

Neural Network Based State
Estimation of Dynamical Systems ...

Abstract: This work presents the
Spacecraft Pose Network (SPN), the
first neural network-based method for
on-board estimation of the pose, i.e.,

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the relative position and attitude, of a known non-cooperative spacecraft using monocular vision. In contrast to other state-of-the-art pose estimation approaches for spaceborne applications, the SPN method does not require the formulation of hand-engineered features and only requires a single grayscale image to determine the pose of the spacecraft ...

Neural Network-Based Pose Estimation for Noncooperative ...

In the study, the authors are interested in investigating the stability analysis and state estimation of Markov jump static neural networks subject to time delays by the feat of Bessel–Legendre inequality.

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Generalised state estimation of
Markov jump neural ...

Traditional state estimation methods without integrating FACTS devices will not be suitable for power systems embedded with FACTS. In this paper the state estimation of power systems in presence of FACTS devices is presented. Hopfield neural network is simulated as an optimization tool to solve the power system state estimation problem

A Hopfield neural network based approach for state ...

A rapid neural network-based state of health estimation scheme for screening of end of life electric vehicle batteries - Alireza Rastegarpanah, Jamie Hathaway, Mohamed Ahmeid, Simon Lambert, Allan Walton, Rustam

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Stolkin, 2020 Skip to main content
Intended for healthcare professionals

Fault Detection And

A rapid neural network–based state of health estimation ...
Neural network-aided adaptive unscented Kalman filter for nonlinear state estimation Abstract: The extended Kalman filter (EKF) is well known as a state estimation method for a nonlinear system and has been used to train a multilayered neural network (MNN) by augmenting the state with unknown connecting weights.

Neural network-aided adaptive unscented Kalman filter for ...
Firstly, the nonlinear autoregressive exogenous neural network

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(NARX NN) is introduced, in which SOC is directly deemed as an NN output for learning and estimation. Secondly, a radial basis function (RBF) based NN with unscented Kalman filter (RBFNN UKF) is proposed, in which the terminal voltage is used as output.

Neural network based learning and estimation of battery ...

Recently, a number of data-driven frame interpolation methods based on convolutional neural networks have been proposed. However, existing learning based methods typically estimate either flow or compensation kernels, thereby limiting performance on both computational efficiency and interpolation accuracy.

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