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Closed-Loop Control
Strategy Applied to a
Fed-Batch Bioreactor

The lack of online
information on some

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bioprocess variables and
the presence of model
and parametric
uncertainties pose
significant challenges to
the design of efficient
closed-loop control
strategies.

And Isolation
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State Estimation for a
Closed-Loop ...

A neural network based
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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

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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

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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.

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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
transition model (i.e.,

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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.

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Neural network?based
power system dynamic
state estimation ...

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Systems Presents both
the Linear-in-Parameter
Neural Network based
observer and the
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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
becoming more and
more important because
nonlinear phenomena...

2. Preliminaries.

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Consider the following
neural networks : (1) $\dot{x}(t) = ? A x(t) + B f(x(t))$
(...)

Systems

Application To
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

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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

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Based State
delayed ...
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?Neural Network-Based
State Estimation of
Nonlinear ...

Neural Network Based
State of Charge (SOC)

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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.

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

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

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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...

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Neural Network Based
State Estimation of
Nonlinear
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., the relative
position and attitude, of
a known non-
cooperative spacecraft

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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 ...

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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

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A Hopfield neural network based approach for state ...

A rapid neural network-based state of

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health estimation
scheme for screening of
end of life electric
vehicle batteries -

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healthcare professionals

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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

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multilayered neural network (MNN) by augmenting the state with unknown connecting weights.

Application To

Neural network-aided adaptive unscented Kalman filter for ...

Firstly, the nonlinear autoregressive exogenous neural network (NARX?NN) is

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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.

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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

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