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[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 significant challenges to the design of efficient closed-loop control strategies.

[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. © 2016 The Authors. Published by Elsevier Ltd. Selection and/or peer-review under responsibility of ICAE 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 transition 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 becoming more and more important because nonlinear phenomena... 2. Preliminaries. Consider the following neural networks : (1) $\dot{x}(t) = -Ax(t) + Bf(x(t) \dots$

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 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., 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.

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 Stolkin, 2020 Skip to main content Intended for healthcare professionals

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

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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 (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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