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Optimal Measurement Methods For Distributed

With the expense of scanning and moving sensors, optimal placement presents a critical problem. Optimal Measurement Methods for Distributed Parameter System Identification discusses the characteristic features of the sensor placement problem, analyzes classical and recent approaches, and proposes a wide range of original solutions, culminating in the most comprehensive and timely treatment of the issue available.

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Optimal Measurement Methods for Distributed Parameter

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For dynamic distributed systems modeled by partial differential equations, existing methods of sensor location in parameter estimation experiments are either limited to one-dimensional spatial domains or require large investments in software systems. With the expense of scanning and moving sensors, optimal placement presents a critical problem.

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Optimal measurement methods for distributed parameter system identification. [Dariusz Uciński] -- Uciniski (U. of Zielona Gora, Poland) offers an account of classical and recent work on sensor placement for parameter estimation in dynamic distributed systems modeled by partial differential ...

Optimal measurement methods for distributed parameter

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Optimal measurement methods for distributed parameter system identification. [Dariusz Uciński] -- "Unique in its focus, this book outlines optimal sensor placement strategies for parameter identification in dynamic distributed systems modeled by partial differential equations.

Optimal measurement methods for distributed parameter ...

Optimal measurement methods for distributed parameter system identification by Dariusz Uciński, 2005, CRC Press edition, in English

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Optimal Measurement Methods For Distributed Parameter ...

3.1 Optimal measurement locations for Parameter Estimation of Distributed Parameter Systems based on the use of Artificial Neural Networks. Alaña, J., Applied Soft Computing, Submitted, (2010). 27: 3.2 Optimal Spatial Sampling Scheme for Parameter Estimation of Non Linear Distributed Parameter Systems. Alaña, J.,

OPTIMAL MEASUREMENT LOCATIONS FOR PARAMETER ESTIMATION OF ...

Rafajlowicz (1981) presented a method for optimal experiment of a distributed parameter system identification problem, which comprises sensor location and determination of classes of random inputs. A searching of an optimal probability measure corresponding to the position of the sensors was studied.

Optimal measurement locations for parameter estimation of ...

optimal rates for the batch gradient descent methods in the non-attainable case. To the best of our knowledge, such a result may be the first kind for batch gradient methods, without requiring any extra unlabeled data as that in (Caponnetto and Yao, 2010). Finally, we also add novel

Optimal Rates for Multi-pass Stochastic Gradient Methods

distributed state estimator for multi-utility data exchanges. For the first part, a systematic method is developed for placing meters either to upgrade an existing measurement system or to build one from scratch. This method not only ensures observability of the system for a base case operating topology, but also accounts for expected

Power System State Estimation and Optimal Measurement ...

Optimal placement and sizing of multiple distributed generation in radial distribution feeders have been performed by Nagireddy et al. using combined differential evaluation, HPSO method, with the objective of reducing the real power loss and improving the voltage profile of the network.

Optimal Location, Sizing, and Appropriate Technology ...

There are some distributed optimal frequency control methods that no load measurement is required , . It is worth noting that physical dynamics of power systems are considered in [26] , [27] and some signals or additional variables are used to circumvent the difficulty introduced by unmeasurable loads.

Distributed algorithm design for optimal resource ...

This paper presents a moving source localization method for distributed passive sensors using TDOA and FDOA measurements. The novel method firstly uses the steepest descent algorithm to obtain a proper initial value of source position and velocity. Then, the coarse location estimation is obtained by maximum likelihood estimation (MLE).

A Moving Source Localization Method for Distributed ...

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The strain and temperature change was acquired by measuring spontaneous Brillouin backscattering, and we performed long-range distributed measurement by coherent detection system , . We performed distributed temperature measurement to an optical fiber of 36 km and compared the accuracy of nonlinear fitting methods based on LabVIEW program. 2.

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