

A Probabilistic Detectability Based Structural Sensor

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A Probabilistic Detectability Based Structural Sensor

November 21st, 2014 - Detectability is defined to quantify the performance of a given SN Then detectability analysis will be developed based on structural simulations and health state classification

A Probabilistic Detectability Based Structural Sensor

February 8th, 2019 - A Probabilistic Detectability Based Structural Sensor Network Design Methodology for Prognostics and Health Management This section presents the detectability based design optimization framework for structural SN design The the conditional probability that the structural system is detected to be at the HS j by the SN given the system is

and Structures A probabilistic detectability based sensor

July 9th, 2018 - diagnostic prognostic performance of a given sensor network 2 the development of detectability analysis based on physics based simulation and health state classification and 3 the formulation of a generic sensor network design optimization problem as a mixed integer nonlinear programming

A Probabilistic Detectability Based Structural Sensor

December 31st, 2018 - Detectability is defined to quantify the performance of a given SN Then detectability analysis will be developed based on structural simulations and health state classification Finally the generic SN design framework can be formulated as a mixed integer nonlinear programming MINLP using the detectability measure and genetic algorithms GAs will be employed to solve the SN design optimization problem

A probabilistic detectability based sensor network design

May 31st, 2015 - Designing an optimal sensor network with high detectability of system health state is thus of great importance to the prognostics and health management performance This article proposes a

generic sensor network design framework using a detectability measure while accounting for uncertainties in material properties and geometric tolerances

A probabilistic detectability based sensor network design

February 6th, 2019 - A probabilistic detectability based sensor network design method for system health monitoring and prognostics Pingfeng Wang Byeng D Youn Chao Hu Jong Moon Ha Byungchul Jeon KW Structural health monitoring KW embedded intelligence KW optimization

Probabilistic Design of Smart Sensing Functions for

November 17th, 2018 - Request PDF on ResearchGate Probabilistic Design of Smart Sensing Functions for Structural Health Monitoring and Prognosis Significant technological advances in sensing and communication

Prognostics and Health Management " SRSL

February 11th, 2019 - "A Probabilistic Detectability Based Structural Sensor Network Design Methodology for Prognostics and Health Management " Annual Conference of the Prognostics and Health Management PHM Society 2010 Oct 10 16 2010 Portland OR

Sensor fault diagnosis with a probabilistic decision

February 11th, 2019 - Highlights Data driven probabilistic approach to sensor fault diagnosis Sensor detectability index SDI based on the internal relationships of the system variables Application to Tennessee Eastman process to validate approach Gaussian model found effective in representing noise Approach extendable to nonlinear systems using Mixture of Probabilistic Models

A probabilistic approach for optimal sensor allocation in

November 24th, 2017 - In structural health monitoring SHM systems the effectiveness and reliability of the sensor network are crucial to determine the optimal number and locations of sensors in SHM systems Here we suggest a probabilistic approach for identifying the optimal number and locations of sensors for SHM

Probabilistic framework for assessing maximum structural

January 19th, 2019 - evolving response of a structure when it is subjected to a stochastic excitation e.g. an earthquake based on uncertain information e.g. sensor measurements KF and KS are algorithms for linear Gaussian models which can be seen as special cases of the Dynamic Bayesian Network DBN The DBN is a probabilistic framework that models the evolution

Initial state detectability of stochastic discrete event

February 6th, 2019 - In order to resolve this issue we introduce the notion of stochastic initial state detectability SI detectability with probabilistic sensor failures Definition 2 SI Detectability Let $G = X \times \mathbb{R}^n$ $X_0 \in \mathbb{R}^n$ p be a PFA and $M = \{ \hat{x} \mid 0 \leq \hat{x} \leq 1 \}$ be a probabilistic projection function

Prognostics and Health Management Chao Hu et al...

February 2nd, 2019 - "A Probabilistic Detectability Based Structural

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