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Within the framework of modal control of large systems, a simple approach is advanced for the determination of optimal control configuration under an energy constraint, i.e., optimal locations of a limited number of controllers such that the total energy requirement for control is minimized.

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## Optimal Controller Placement In Modal Control Of Complex

Research on optimal sensor placement has become a very important



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topic because of the need to obtain effective testing results with limited testing resources in modal identification and structural health monitoring.

## Optimal multiaxial sensor placement for modal ...

Optimal Model for the Controller Placement Problem in Software Defined Networks. Abstract: In this letter, we propose a mathematical model for the controller placement problem in Software Defined Networks (SDN). More precisely, given a set of switches that must be managed by the controller (s), the model simultaneously determines the optimal number, location, and type of controller (s) as well as the interconnections between all the network elements.

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LETTERS, VOL. 19, NO. 1, JANUARY 2015 Optimal Model for the Controller Placement Problem in Software Defined Networks Afrim Sallahi and Marc St-Hilaire

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Controller Placement in SDN. Heller et al. in [9] initiated the controller placement problem and formulated it as a general facility

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location problem. They observed the effects of controller placement on both average control latency and worst-case control latency, between which a trade-off exists. [10] brought in a combination of real costs of ...

## Modeling Flow Setup Time for Controller Placement in SDN ...

Optimal Model for Failure Foresight Capacitated Controller Placement in Software-Defined Networks Abstract: Controller placement is an important problem in software-defined networks. If a controller fails, there may be no controller with enough spare capacity to serve switches of the failed controller, which leads to switches being disconnected from the controller.

## Optimal Model for Failure Foresight Capacitated Controller ...

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Optimal sensor placement for modal identification using system-realization methods. Daniel C. Kammer; ... Optimal placement of sensors for structural system identification and health monitoring using a hybrid swarm intelligence technique. ... Optimization of Piezoceramic Sensor/Actuator Placement for Vibration Control of Laminated Plates.

## Optimal sensor placement for modal identification using ...

The optimal placement and active vibration control for piezoelectric smart single flexible manipulator are investigated in this study. Based on the assumed mode method and Hamilton's principle, the dynamic equation of the piezoelectric smart single flexible manipulator is established. Then, the singular perturbation method is adopted and the coupled dynamic equation is decomposed into

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slow (rigid) and fast (flexible) subsystems.

## Optimal placement and active vibration control for ...

In this letter, we propose a mathematical model for the controller placement problem in SoftwareDefined Networks (SDN). More precisely, given a set of switches that must be managed by the controller(s), the model simultaneously determines the optimal number, location, and type of controller(s) as well as the interconnections between all the network elements.

## Optimal Model for the Controller Placement Problem in SDN

Introduction. This source code can be used to optimize SDN controller placement in wide area networks. The algorithms used are classical "unsupervised" machine learning algorithms namely

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Silhouette and Gap Statistic to determine the optimal number of controllers to deploy and PAM to find the optimal locations to place the controllers. Unsupervised algorithms learn from input data that has ...

[GitHub - Lusani/SDN-Controller-Placement: This source code ...](#)

In this letter, we propose a mathematical model for the controller placement problem in Software Defined Networks (SDN). More precisely, given a set of switches that must be managed by the controller(s), the model simultaneously determines the optimal number, location, and type of controller(s) as well as the interconnections between all the network elements.

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The information contained in the data is measured by the Kullback-Leibler (K-L) divergence between the prior and posterior distribution of the model parameters taken in modal identification to be the modal coordinates. The optimal sensor placement that maximizes the expected K-L divergence is shown also to minimize the information entropy of the posterior distribution.

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