

Towards Optimal Sensor Placement in Multi-Zone Measurements

Octavio Lerma, Craig Tweedie, and Vladik Kreinovich

Cyber-ShARE Center

University of Texas at El Paso

500 W. University

El Paso, TX 79968, USA

Emails lolerma@episd.org, ctweedie@utep.edu, vladik@utep.edu

In multi-zone areas, where the boundaries change with time, it is desirable to place sensors in such a way that the boundary is covered at all times. In this paper, we describe the optimal sensor placement with this property. In this optimal placement, sensors are placed along a see-saw trajectory going between the current location of the boundary and its farthest future location.