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**WILL EVANS**, UBC

*Minimizing Interference Potential Among Moving Entities*

Imagine a collection of entities moving with bounded speed in Euclidean space. Uncertainty in entity locations due to unmonitored and unpredictable motion gives rise to a space of possible entity configurations at each time. We define measures of the interference potential of such spaces to describe the interference that might actually occur. We study how limited monitoring rate impacts interference potential, and describe and analyse an adaptive monitoring scheme for minimizing interference potential over time that is competitive (to within a constant factor) with any other scheme (in particular, a clairvoyant scheme) over modest sized time intervals.