

Title (en)
METHOD AND SYSTEM FOR ADAPTIVE SENSOR ARRANGEMENT

Title (de)
VERFAHREN UND SYSTEM FÜR EINE ADAPTIVE SENSORANORDNUNG

Title (fr)
PROCÉDÉ ET SYSTÈME D'AGENCEMENT DE CAPTEURS ADAPTATIF

Publication
EP 3888003 A1 20211006 (EN)

Application
EP 19817601 A 20191127

Priority

- GR 20180100545 A 20181130
- EP 19160156 A 20190228
- EP 2019082805 W 20191127

Abstract (en)

[origin: EP3660732A1] There is provided a computer-implemented method for arranging one or more sensor devices for detecting events within a domain having one or more dimensions. The method includes iteratively: determining a plurality portions spanning the domain; estimating a normalised rate of events being detected in each portion; selecting, in dependence on the estimated normalised rates, one or more of the determined portions on the basis of an expected reward associated with allocating the one or more sensor devices to the selected one or more portions; arranging the one or more sensor devices to detect events in the selected one or more portions; and receiving event data from the one or more sensor devices, the event data being indicative of dimensional co-ordinates of events detected by the one or more sensor devices within the selected one or more portions. The expected reward depends on an expected rate of events being detected by the one or more sensor devices, penalised by a sensing cost associated with the one or more sensor devices, and the number of determined portions increases with respect to the number of iterations in accordance with a predetermined relationship.

IPC 8 full level
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CPC (source: EP US)
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See references of WO 2020109423A1

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