Title (en)
METHOD FOR CONFIGURING A SENSOR DETECTION DEVICE, AND CORRESPONDING COMPUTER PROGRAM AND ADAPTIVE DEVICE

Title (de)
VERFAHREN ZUM KONFIGURIEREN EINES SENSORSDETEKTORS SOWIE ENTSPRECHENDES COMPUTERPROGRAMM UND ADAPTIVE VORRICHTUNG

Title (fr)
PROCÉDÉ DE CONFIGURATION D'UN DISPOSITIF DE DÉTECTION À CAPTEUR, PROGRAMME D'ORDINATEUR ET DISPOSITIF ADAPTATIF CORRESPONDANTS

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Abstract (en)
[origin: WO2013030508A1] The invention relates to a method for configuring a device for detecting one situation from among a set of situations in which physical system is likely to be present, comprising the following steps: receiving (102) a learning sequence corresponding to a predetermined situation of the physical system; determining (118) parameters for a statistical hidden Markov model, which is recorded in the detection device and relates to the predetermined situation, on the basis of a pre-initialization (104-116) of said parameters. The pre-initialization (104-116) comprises the following steps: determining (104, 106) a plurality of laws of probability from the learning sequence; distributing (108-114) the laws of probability among the various hidden states of the statistical model in question by means of the overall optimization (112) of a function for adapting said laws of probability to the various hidden states and to impossible transition constraints; and initializing (116) the parameters of the statistical model in question using representative predetermined laws of probability for each hidden state of the statistical model in question.

IPC 8 full level
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