

Title (en)

METHOD FOR STABILIZING AN ADAPTIVE ALGORITHM AND DEVICE FOR CARRYING OUT SAID METHOD

Title (de)

VERFAHREN ZUR STABILISIERUNG EINES ADAPTIVEN ALGORITHMUS SOWIE EINE VORRICHTUNG ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCEDE DE STABILISATION D'UN ALGORITHME ADAPTATIF ET DISPOSITIF DESTINE A LA MISE EN OEUVRE DE CE PROCEDE

Publication

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Application

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Abstract (en)

[origin: WO2006039826A1] The invention relates to a method for estimating an unknown transfer function (H) which comprises an input signal (x) and an actual output signal (y). According to the invention, an estimated output signal (y) is generated in an adaptive process (3) using the input signal (x). An error signal (e) is generated from the actual output signal (y) and the estimated output signal (y) and the error signal (e) is used to improve the adaptive process (3), whereby at least one of the following signal paths is interrupted or opened depending on at least one condition: a signal path carrying the error signal (e), a signal path carrying the input signal (x), or a signal path carrying the estimated output signal (y). The invention allows to substantially stabilize adaptive processes or algorithms. The invention also relates to the use of the method, to a device and to the use of said device.

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