Title (en)
DEVICE AND METHOD FOR EVALUATING AND OPTIMIZING SIGNALS ON THE BASIS OF ALGEBRAIC INVARIANTS

Title (de)
VORRICHTUNG UND VERFAHREN ZUR AUSWERTUNG UND OPTIMIERUNG VON SIGNALEN AUF DER BASIS ALGEBRAISCHER INVARIANTEN

Title (fr)
DISPOSITIF ET PROCÉDÉ D'ÉVALUATION ET D'OPTIMISATION DE SIGNAUX SUR LA BASE D'INVARIANTES ALGÉBRIQUES

Publication
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Application
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Abstract (en)
[origin: WO2012016992A2] The invention relates to signals (for example audio signals) which seem to be completely random, yet for which universally valid statements should be made, for example in the form of parameterizations which, on average, are accurate and can be determined only based on short signal sections. Instead of simulating, for example, a Gaussian process, for example projections of algebraic operations - at the plane of real or complex numbers - of said signal sections are observed and proven for said astonishingly simple algebraic invariants. Said invariants are subsequently used as tags in order to perform, for example, a selection according to the frequency thereof. On average, the present system proves to be more efficient than known methods until now. The practical-commercial application of said system covers nearly the entire signal processing field. The present document addresses in particular the stochastic observation of audio signals, as known, for example, from the field of digital audio broadcasting.

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G06F 17/10 (2006.01)

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