

Title (en)

DETERMINATION BY INDEPENDENT COMPONENT ANALYSIS OF THE EFFICACY OF A TREATMENT

Title (de)

BESTIMMUNG DER WIRKSAMKEIT EINER BEHANDLUNG DURCH UNABHÄNGIGE KOMPONENTENANALYSE

Title (fr)

DETERMINATION PAR ANALYSE EN COMPOSANTES INDEPENDANTES DE L'EFFICACITE D'UN TRAITEMENT

Publication

EP 2666146 A1 20131127 (FR)

Application

EP 12700498 A 20120120

Priority

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Abstract (en)

[origin: WO2012098227A1] Method of determining a value for quantifying the deviation from the mean value of a distribution of the divergence in severity between an initial instant and a later instant subsequent to the initial instant, the severity depending on the contrast between zones receiving a treatment and zones receiving a vehicle, comprising steps in the course of which: at least one hyper-spectral image comprising at least one zone from among a diseased zone receiving the treatment, a healthy zone receiving the treatment, a diseased zone receiving the vehicle and a healthy zone receiving the vehicle is acquired, for at least one patient, at an initial instant and at at least one later instant subsequent to the initial instant, a decomposition of the hyper-spectral images into independent components is determined, a representative component maximizing the divergence between healthy zone and pathological zone is determined, for each image, from among the independent components, a representative component corrected as a function of the mean of the representative components is determined for each image, a value of the divergence in severity is determined as a function of the corrected representative components of the hyper-spectral images acquired, for each patient and for each measurement instant, and a value for quantifying the deviation from the mean value between a distribution of the divergence in severity at the initial instant and a distribution of the divergence in severity at a later instant subsequent to the initial instant is determined as a function of the value of the divergence in severity for each patient at the initial instant and at the later instant.

IPC 8 full level

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Citation (search report)

See references of WO 2012098227A1

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