Title (en)
METHOD FOR DETERMINING INDIVIDUAL CARE-PRODUCT FORMULATIONS

Title (de)
VERFAHREN ZUR BESTIMMUNG INDIVIDUELLER PFLEGEMITTELFORMULIERUNGEN

Title (fr)
PROCÉDÉ DE DÉTERMINATION DE FORMULATIONS DE PRODUITS DE SOINS PERSONNELS

Publication
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Application
EP 21739267 A 20210618

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Abstract (en)
[origin: CA3183167A1] The invention relates to a method for the automated determination of an individual care product formulation for a user, comprising: - a feature input routine for establishing individual skin features of the user; - creating a user vector based on this data; - creating, based on the user vector and by means of a multilayer neural network, a feature vector containing the properties and functionalities of the care product formulation to be determined, - wherein the neural network is formed in a first formulation cycle for the user with a learning vector set consisting of parameterized expertise, - wherein the learning vector set is adapted in further formulation cycles through the capture of changes in individual skin features after the application of a previously determined care product formulation, - creating the individual care product formulation based on the feature vector and an ingredient constraint database using a loss-function optimization method; - a feature change routine for inputting changes in skin features of the user after the application of a care product according to the care product formulation in order to modify the learning vector set. The method according to the invention represents a hybrid approach which initially includes background knowledge of domain experts (i.e. dermatologists) who specify an initial mapping. This is augmented by a structured analysis of user feedback, which increases accuracy.

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