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(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE-BASED SYSTEM FOR COSMETIC SKIN ANOMALY DETECTION AND PERSONALIZED SKINCARE RECOMMENDATION

(51) International classification	:G06V 40/16, G06T 7/00, G16H 50/20, G06N 3/08, G06N 3/04	(71)Name of Applicant : 1)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY Address of Applicant :19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA Uttar Pradesh India
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(57) Abstract :

ABSTRACT Disclosed herein is an artificial intelligence-based system (100) for cosmetic skin anomaly detection and personalized skincare recommendation, the system (100) comprising a camera (102) configured to capture real-time image data of a user for analysis of cosmetic skin anomalies, a user interface (106) integrated in to a user device (104) and configured to receive the real-time image data captured by the camera (102) and user-uploaded facial images depicting cosmetic skin anomalies to facilitate interaction between the user and the system (100), a communication network (108), a processing unit (112) configured to process and analyze the real-time image data and user-uploaded facial images, wherein the processing unit (112) further comprises a data acquisition module (114), a preprocessing module (116), a feature extraction module (118), a visual analysis module (120), a predictive detection module (122), a skin-condition mapping module (124), a product recommendation module (126) and an output module (136).

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