



TECHNOLOGY

Modeling Facial Aging in Young Faces

OVERVIEW

Researchers at the University of Maryland have been studying and developing personalized facial growth models based upon data gathered for an individual's facial growth over a range of many years. More particularly, their work on these models for this current invention is for predicting an individual's appearance by performing face recognition for age progression in individuals in an age range of 0 years to 18 years old.

During one's younger years, facial aging effects are predominantly manifested in the form of shape variations. The invention is directed to a craniofacial growth model that characterizes the shape variations occurring in human faces during their formative years.

Evidence is gathered of measured sizes and proportions on human faces in accordance with human growth patterns of different facial regions throughout the years. The age-based anthropometric face measurements are utilized to develop the craniofacial growth model. The craniofacial growth model is developed to coincide with psychophysical evidence on age progression. Further, the proposed facial growth model takes into account the facial aspect ratio of each individual in predicting his / her appearance across ages. As a result, the effectiveness of the personalized growth model in predicting an individual's appearance across age as well as across separated face images has been demonstrated to be better than a 'generic' growth model in all of the age difference categories.

CONTACT INFO

UM Ventures
0134 Lee Building
7809 Regents Drive
College Park, MD 20742
Email: umdtechtransfer@umd.edu
Phone: (301) 405-3947 | Fax: (301) 314-9502

Additional Information

INSTITUTION

University of Maryland, College Park

LICENSE STATUS

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CATEGORIES

- Information Technology
- Software + Algorithm

EXTERNAL RESOURCES

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