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Patent Search

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Inventor

Name	Address	Country
Mr. Paparao Nalajala	Assistant Professor, Department of ECE, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India. Pin Code: 500043	India
Dr. Valli Madhavi Koti	Professor and Principal, Department of Computer Science, GIET Degree College, Rajahmundry, East Godavari, Andhra Pradesh, India. Pin Code: 533294	India
Dr. R.Bullibabu	Professor & Head, Department of CSE, Guntur Engineering College, Guntur, Andhra Pradesh, India. Pin Code: 522004	India
Dr. Karthikeyan Palaniappan	Associate Professor, Department of CSE, Center for System Design, Chennai Institute of Technology, Chennai, Tamil Nadu, India. Pin Code: 600069	India
Dr. K.Jagan Mohan	Professor, Department of CSE-AI, KKR & KSR Institute of Technology and Sciences, Vinjanampadu, Guntur, Andhra Pradesh, India. Pin Code: 522017	India
Mrs. Jyothi Balreddygari	Research Scholar at BestIU & Assistant Professor in Department of Computer Science, St.Francis College for Women, Begumpet, Hyderabad, BestIU, Telangana, India. Pin Code: 500016	India
Mr. Deevi Hari Krishna	Assistant Professor, Department of Artificial Intelligence, KKR & KSR Institute of Technology and Sciences, Guntur, Andhra Pradesh, India. Pin Code: 522017	India
Mrs. P.Poonkodi	Assistant Professor, Department of CSE, SNS College of Technology, Coimbatore, Tamil Nadu, India. Pin Code: 641035	India
Dr. Urlam Devee Prasan	Professor & HOD, Department of Computer Science and Engineering, Aditya Institute of Technology and Management, Tekkali, Srikakulam, Andhra Pradesh, India. Pin Code: 532201	India
Dr. Rizwana	Associate Professor, Department of Physics, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India. Pin Code: 500043	India

Applicant

Name	Address	Country
Mr. Paparao Nalajala	Assistant Professor, Department of ECE, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India. Pin Code: 500043	India
Dr. Valli Madhavi Koti	Professor and Principal, Department of Computer Science, GIET Degree College, Rajahmundry, East Godavari, Andhra Pradesh, India. Pin Code: 533294	India
Dr. R.Bullibabu	Professor & Head, Department of CSE, Guntur Engineering College, Guntur, Andhra Pradesh, India. Pin Code: 522004	India
Dr. Karthikeyan Palaniappan	Associate Professor, Department of CSE, Center for System Design, Chennai Institute of Technology, Chennai, Tamil Nadu, India. Pin Code: 600069	India
Dr. K.Jagan Mohan	Professor, Department of CSE-AI, KKR & KSR Institute of Technology and Sciences, Vinjanampadu, Guntur, Andhra Pradesh, India. Pin Code: 522017	India
Mrs. Jyothi Balreddygari	Research Scholar at BestIU & Assistant Professor in Department of Computer Science, St.Francis College for Women, Begumpet, Hyderabad, BestIU, Telangana, India. Pin Code: 500016	India
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Dr. Urlam Devee Prasan	Professor & HOD, Department of Computer Science and Engineering, Aditya Institute of Technology and Management, Tekkali, Srikakulam, Andhra Pradesh, India. Pin Code: 532201	India
Dr. Rizwana	Associate Professor, Department of Physics, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India. Pin Code: 500043	India

Abstract:

[027] This invention presents a Novel Face detection and degeneration system based on Deep Neural Networks. The present invention comprising of a first network c precise facial recognition, trained to effectively identify faces within images or video frames. A second network engineered for facial feature alteration, with the ability facial attributes while maintaining the overall image's integrity. Further, the first network for face detection utilizes a convolutional neural network (CNN) architecture incorporating techniques such as Single Shot MultiBox Detector (SSD) or You Only Look Once (YOLO) for efficient and real-time face detection. The second network fo degeneration is based on Generative Adversarial Networks (GANs) or Variational Autoencoders (VAEs) to enable the modification, blurring, or obfuscation of facial fea Accompanied Drawing [FIG. 1-2]

Complete Specification

Description:[001] The invention, in general, relates to the field of machine learning system and methodologies. More specifically, the present invention relates to a N Face detection and degeneration system based on Deep Neural Networks.
BACKGROUND OF THE INVENTION
[002] The following description provides the information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.
[003] In recent years, the field of computer vision has seen remarkable advancements, largely driven by the powerful capabilities of deep learning techniques, partic deep neural networks. Among the many applications of computer vision, face detection and manipulation have gained significant attention due to their potential in domains, including entertainment, security, and privacy preservation. This provides an overview of the rationale and significance of a novel face detection and dege system based on deep neural networks.
[004] Conventionally, the advent of deep neural networks provide groundbreaking advancements in computer vision and image processing. To overcome the limita among the manifold applications, face detection and manipulation have assumed a central role, holding substantial promise in domains ranging from privacy prote creative expression.
[005] Accordingly, on the basis of aforesaid facts, there remains a need in the prior art to provide a Novel Face detection and degeneration system based on Deep N Networks. Therefore, it would be useful and desirable to have a system, method, apparatus, and interface to meet the above-mentioned needs
SUMMARY OF THE PRESENT INVENTION

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