File name: FID-023.txt

Result: PLAGIARISM DETECTED

Plagiarism Detected: 94.65%

Text to analyze: In this paper, a comprehensive survey is provided on deep FER, encompassing algorithms and datasets that offer insights into these intrinsic problems. Recent technological developments have enabled computers to identify and categorize facial expressions to determine a personâ€™s emotional state in an image or a video. This process, called â€œFacial Expression Recognition (FER)â€•, has become one of the most popular research areas in computer vision. In recent times, deep FER systems have primarily concentrated on addressing two significant challenges: the problem of overfitting due to limited training data availability, and the presence of expression-unrelated variations, including illumination, head pose, image resolution, and identity bias. Initially, this paper presents a detailed timeline showcasing the evolution of methods and datasets in deep facial expression recognition (FER). This timeline illustrates the progression and development of the techniques and data resources used in FER. Then, a comprehensive review of FER methods is introduced, including the basic principles of FER (components such as preprocessing, feature extraction and classification, and methods, etc.) from the pro-deep learning era (traditional methods using handcrafted features, i.e., SVM and HOG, etc.) to the deep learning era. Moreover, a brief introduction is provided related to the benchmark datasets (there are two categories: controlled environments (lab) and uncontrolled environments (in the wild)) used to evaluate different FER methods and a comparison of different FER models. The remaining challenges and corresponding opportunities in FER and the future directions for designing robust deep FER systems are also pinpointed. Existing deep neural networks and related training strategies designed for FER, based on static images and dynamic image sequences, are discussed.

Plagiarized Sentence: The following sentence: ' In this paper, a comprehensive survey is provided

on deep FER, encompassing algorithms and datasets that offer insights into these intrinsic problems.' presents plagiarism from the 'org-023.txt' file and sentence 'In this paper, a comprehensive survey is provided on deep FER, encompassing algorithms and datasets that offer insights into these intrinsic problems.'

Plagiarized Sentence: The following sentence: ' Recent technological developments have enabled computers to identify and categorize facial expressions to determine a personâ€™s emotional state in an image or a video.' presents plagiarism from the 'org-024.txt' file and sentence 'Recent technological developments have enabled computers to identify and categorize facial expressions to determine a personâ€™s emotional state in an image or a video.'

Plagiarized Sentence: The following sentence: ' This process, called â€œFacial Expression Recognition (FER)â€•, has become one of the most popular research areas in computer vision.' presents plagiarism from the 'org-023.txt' file and sentence 'This process, called â€œFacial Expression Recognition (FER)â€•, has become one of the most popular research areas in computer vision.'

Plagiarized Sentence: The following sentence: ' In recent times, deep FER systems have primarily concentrated on addressing two significant challenges: the problem of overfitting due to limited training data availability, and the presence of expression-unrelated variations, including illumination, head pose, image resolution, and identity bias.' presents plagiarism from the 'org-023.txt' file and sentence 'In recent times, deep FER systems have primarily concentrated on addressing two significant challenges: the problem of overfitting due to limited training data availability, and the presence of expression-unrelated variations, including illumination, head pose, image resolution, and identity bias.'

Plagiarized Sentence: The following sentence: ' Initially, this paper presents a detailed timeline

showcasing the evolution of methods and datasets in deep facial expression recognition (FER).' presents plagiarism from the 'org-023.txt' file and sentence 'Initially, this paper presents a detailed timeline showcasing the evolution of methods and datasets in deep facial expression recognition (FER).'

Plagiarized Sentence: The following sentence: ' This timeline illustrates the progression and development of the techniques and data resources used in FER.' presents plagiarism from the 'org-023.txt' file and sentence 'This timeline illustrates the progression and development of the techniques and data resources used in FER.'

Plagiarized Sentence: The following sentence: ' Then, a comprehensive review of FER methods is introduced, including the basic principles of FER (components such as preprocessing, feature extraction and classification, and methods, etc.)' presents plagiarism from the 'org-024.txt' file and sentence 'Then, a comprehensive review of FER methods is introduced, including the basic principles of FER (components such as preprocessing, feature extraction and classification, and methods, etc.)'

Plagiarized Sentence: The following sentence: ' from the pro-deep learning era (traditional methods using handcrafted features, i.e., SVM and HOG, etc.)' presents plagiarism from the 'org-024.txt' file and sentence 'from the pro-deep learning era (traditional methods using handcrafted features, i.e., SVM and HOG, etc.)'

Plagiarized Sentence: The following sentence: ' to the deep learning era.' presents plagiarism from the 'org-024.txt' file and sentence 'to the deep learning era.'

Plagiarized Sentence: The following sentence: ' Moreover, a brief introduction is provided related to the benchmark datasets (there are two categories: controlled environments (lab) and uncontrolled

environments (in the wild)) used to evaluate different FER methods and a comparison of different FER models.' presents plagiarism from the 'org-023.txt' file and sentence 'Moreover, a brief introduction is provided related to the benchmark datasets (there are two categories: controlled environments (lab) and uncontrolled environments (in the wild)) used to evaluate different FER methods and a comparison of different FER models.'

Plagiarized Sentence: The following sentence: ' The remaining challenges and corresponding opportunities in FER and the future directions for designing robust deep FER systems are also pinpointed.' presents plagiarism from the 'org-023.txt' file and sentence 'The remaining challenges and corresponding opportunities in FER and the future directions for designing robust deep FER systems are also pinpointed.'

Plagiarized Sentence: The following sentence: ' Existing deep neural networks and related training strategies designed for FER, based on static images and dynamic image sequences, are discussed.' presents plagiarism from the 'org-023.txt' file and sentence 'Existing deep neural networks and related training strategies designed for FER, based on static images and dynamic image sequences, are discussed.'

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