File name: FID-023.txt
Result: PLAGIARISM DETECTED
Plagiarism percentage: 95%

Most similar document(s):
org-023.txt with similarity: 99.0%
org-024.txt with similarity: 99.0%

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■■Facial 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.

Sentence analysis:
Plagiarized sentence (file FID-023.txt):
'In this paper, a comprehensive survey is provided on deep FER, encompassing algorithms and datasets that offer insights into these intrinsic problems.'
Original sentence (file org-024.txt):
'In this paper, a comprehensive survey is provided on deep FER, encompassing algorithms and datasets that offer insights into these intrinsic problems.'

Plagiarized sentence (file FID-023.txt):
'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.'
Original sentence (file org-023.txt):
'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 (file FID-023.txt):
'This process, called â■■Facial Expression Recognition (FER)â■■, has become one of the most popular research areas in computer vision.'
Original sentence (file org-023.txt):
'This process, called â■■Facial Expression Recognition (FER)â■■, has become one of the most popular research areas in computer vision.'

Plagiarized sentence (file FID-023.txt):
'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.'
Original sentence (file org-024.txt):
'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 (file FID-023.txt):

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

Plagiarized sentence (file FID-023.txt):
'This timeline illustrates the progression and development of the techniques and data resources used in FER.'
Original sentence (file org-024.txt):
'This timeline illustrates the progression and development of the techniques and data resources used in FER.'

Plagiarized sentence (file FID-023.txt):
'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.)'
Original sentence (file org-023.txt):
'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 (file FID-023.txt):
'from the pro-deep learning era (traditional methods using handcrafted features, i.e., SVM and HOG, etc.)'
Original sentence (file org-023.txt):
'from the pro-deep learning era (traditional methods using handcrafted features, i.e., SVM and HOG, etc.)'

Plagiarized sentence (file FID-023.txt):
'to the deep learning era.'
Original sentence (file org-024.txt):
'to the deep learning era.'

Plagiarized sentence (file FID-023.txt):
'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.'
Original sentence (file org-024.txt):
'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 (file FID-023.txt):
'The remaining challenges and corresponding opportunities in FER and the future directions for designing robust deep FER systems are also pinpointed.'
Original sentence (file org-023.txt):
'The remaining challenges and corresponding opportunities in FER and the future directions for designing robust deep FER systems are also pinpointed.'

Plagiarized sentence (file FID-023.txt):
'Existing deep neural networks and related training strategies designed for FER, based on static images and dynamic image sequences, are discussed.'
Original sentence (file org-023.txt):
'Existing deep neural networks and related training strategies designed for FER, based on static images and dynamic image sequences, are discussed.'