



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكرو فيلم

بسم الله الرحمن الرحيم



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شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلم



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جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

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"Find efficient method for detecting features in digital images"

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قالوا

سبحانك لا علم لنا
إلا ما علمتنا إنك أنت
العليم العظيم

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Aim Of the Work

Aim of the work:

The aim of the present work to Find efficient method for detecting features in digital image

The main goal of this thesis is to find an efficient way to extract the information and properties contained in digital images so that they can be used to obtain accurate diameter measurements of the fibers formed by the electrospinning process of a substance or some materials and chemical compounds. Also improve extraction performance and reduce the time of this process.

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List of Abbreviations

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BP SIFT	Belief Propagation SIFT
BRISK	Binary Robust Invariant Scalable Keypoints
CMCS	Carboxymethylchitosan
CECS	Carboxyethylchitosan
CCL	Connected Component Labelling
CLARA	Clustering Large Applications
CLARANs	Clustering Large Applications based on RANdomized Search
DoG	Difference of Gaussian
EDX	Energy Dispersive X-ray
FAST	Features from Accelerated Segment Test
FREAK	Fast Retina Keypoint
HIS	hue (H), saturation (S), intensity (I).
ImageJ	Open source application based on java
KNN	K-Nearest Neighbors algorithm
LDA	Linear Discriminant Analysis
LoG	Laplace of Gaussian
LPD	License Plate Detection
LPI	License Plate Identification
MATLAB	MATrix LABoratory") is a proprietary multi-paradigm programming language and numeric computing environment
OCR	Optical Character Recognition
PAM	Partition Around Medoids
PCA	Principal Component Analysis
RANSAC	RANdom SAmple Consensus

Revolution	Software used with electron microscope
SEM	Scanning Electron Microscope
SCWs	sliding concentric windows
SIFT	Scale Invariant Feature Transform
SOM	Self Organization Map
SURF	Speeded Up Robust Features
SUSAN	Smallest Unlabeled Segment Assimilating Nucleus
SVM	Support Vector Machine
VB	Visual basic