Curriculum Vitae

Name Of. Person

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PERSONAL SUMMARY:

Name : Israa Mohammed Hassoon .

Education : M.Sc. In Computer Science   in 13/4/2015 .

Major Specialization : Computer Science .

Exact Specialization: Image Processing and Pattern Recognition .

Academic Title: Assistant Lecturer   in 13/4/2015 .

Years of service in higher education : (8) years .

The title of Master's Thesis : 2D object recognition system using graph matching technique .

Abstract :

Humans can recognize objects with little effort, despite the fact that the image of the objects may vary in sizes and pose. Matching two objects is perform by measuring how well the proprieties and the organization of the primitives forming the shapes agree .Graph is a general and powerful data structure for the representation of objects, there have been several approaches in graph matching area, such that: recognition by components (geons) ,skeletal graph based on junction points , using medial axis characteristic points as an attribute to model the shape ,..etc.

In this thesis, 2D object recognition system is introduced using graph matching technique .A shape is partitioned into hierarchically organized primitive parts, building shock graph is based on adjacency matrix that reflects connections among skeleton segments.

The proposed system includes four stages : preprocessing, graph construction ,feature extraction, and recognition stage. To ensure accuracy , principle of penalty is used in the fourth stage to deal with graphs have deferent size .

This work is performed on the database including 100 images for 10 classes(10 images for each class). The testing images consists of 80 images(8 images for each class), the system extracts features , and compares the features with those stored in the database to find the nearest class using Euclidian distance measure. The experimental results showed that the recognition rate was 93.7 % .

EDUCATION:

- M.Sc. In Computer Science .
- B.Sc. In Computer Science .

ACADEMIC HONORS AND AWARDS:

- thanks and appreciation from Dean the collage of Science, with the number 1519 dated 12/4/2009 .
- thanks and appreciation from Dean   the collage of Science, with the number 2675 dated 8/6/2009.

- thanks and appreciation from the university president with a number 11308 dated 17/04/2014.

ACADEMIC /TEACHING EXPERIENCE:

1-Image Processing.
2. Computer Techniques.
3. Artificial Intelligence.
4. Patterns Recognition.
5- Data Structures And Algorithms

COURSES TAUGHT:

Undergraduate	Graduate
Numerical Analysis . Topics in Computer Science .	

PROFESSIONAL AFFILIATIONS:

- Member of Committee of data archiving in (2014-2015) , Member of Committee of for Scientific Research in(2014-2015) , Member of Committee of for Scientific Research in (2015-2016) , Member of Committee of maintenance in (2015-2016) , Member of Committee of website in the Department of Mathematics in (2015-2016) , Member of Committee of for Scientific Research in (2016-2017) , Member of the Committee Examination in (2016-2017)

- Follow-up and registration of the educational reality of the Department of Mathematical Sciences .

PUPLICATIONS:

1. Israa Mohammed Hassoon , Eigen values Matrix for Recognition English Letters , Oriental Journal Of Computer Science & Technology , ISSN: 0974-6471 , April 2016.

2. Israa M. Hassoon ,Samar A. Kassir and Samira A. Hussain , Creates a New GIS Tool for Classifying Brain Tumor   ,International Journal Of Science & Engineering Research , Issue 7 , July -2016 .

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PROFFESSIONALDEVELOPMENT

- Certifications.
- Conferences.
- Workshops.