

# Rania Ramadan Mohamed

## *Curriculum Vitae*

### Personal Data

Full Name **Rania Ramadan Mohamed Abdrabou**  
Nationality Egyptian  
Address Mathematics Department, Faculty of Science, Sohag University, Sohag, Egypt  
Date of Birth 22 Feb. 1980  
Mobiles +201008161300  
Email rania-abdrabou@science.sohag.edu.eg , rramadan@gmail.com  
major specialization **Artificial intelligence**  
Current position **Lecturer**  
Scopus [Please Click Here](#)  
Orcid [Please Click Here](#)  
Google Scholar [Please Click Here](#)  
Research Gate [Please Click Here](#)

### Research Interest

Neural Networks, Machine Learning, Pattern Recognition, Image processing, Image compression, Computer vision, and Artificial intelligence .

### Scopus Information's

Scopus ID	No. of articles in Scopus	Citations in Scopus	h-index in Scopus
57193515705	4	11	1

### Work Experience

2022 to Date Lecture at Mathematics Department, Faculty of Science, Sohag University, Sohag, Egypt.  
2010-2022 Lecture Assistant at Mathematics Department, Faculty of Science, Sohag University, Sohag, Egypt.  
2002-2010 Instructor at Mathematics Department, Faculty of Science, Sohag University, Sohag, Egypt.

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## Teaching (Undergraduate Courses)

Basics of computer ,programming languages ,applications of computer in ,chemistry ,applications of computer in biology ,scientific computing ,object-oriented programming ,Data structure ,web programming ,Microsoft Office training ,Algorithms training.

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## Education

2011-2022 **Ph.D. in Computer Science Section Mathematics Department, Sohag University, Sohag, Egypt**

2006-2010 **Master Degree of Computer Science Section Mathematics Department, Sohag University, Sohag, Egypt**

1996-2000 **Bachelor's Degree of Computer Science Section Mathematics Department, Sohag University, Sohag, Egypt**

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## Master Thesis

Title *Fast Image Coding techniques for digital Image*

Supervisors Prof. Moheb Ramzy Girgis, Prof. Elnomairy Allam Zanaty, Dr. Ahmed Swilem Ahmed

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## Ph. D. Thesis

Title *Improving the performance of skin cancer segmentation using deep convolutional neural networks*

Supervisors Prof. Mahmoud A.Abul-Ez, Prof. Mahmoud M. Abdel-Aty, Prof. Saleh K. Aly

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## Publications

1. Ramadan, R., Aly, S. and Abdel-Atty, M., 2022. Color-invariant skin lesion semantic segmentation based on modified U-Net deep convolutional neural network. *Health Information Science and Systems*, 10(1), p.17.
2. Ramadan, R. and Aly, S., 2022. DGCU-Net: A new dual gradient-color deep convolutional neural network for efficient skin lesion segmentation. *Biomedical Signal Processing and Control*, 77, p.103829.
3. Ramadan, R. and Aly, S., 2022. CU-net: a new improved multi-input color U-net model for skin lesion semantic segmentation. *IEEE Access*, 10, pp.15539-15564.
4. Abdrabou, R. and Haridy, S.K., 2022. An Efficient skin lesion segmentation using deep fully convolutional neural network with gradient skin images. *Sohag Journal of Sciences*, 7(3), pp.133-143.
5. Swilem, A., Girgis, M.R., Zanaty, E.A. and Ramadan, R., 2009, November. An algorithm for mean pyramids vector quantization using Hadamard transform and tree structure. In *2009 16th IEEE International Conference on Image Processing (ICIP)* (pp. 1929-1932). IEEE.
6. Swilem, A., Girgis, M.R., Zanaty, E.A. and Ramadan, R., 2008, March. A fast search algorithm for mean pyramids vector quantization using Hadamard transform. In *Proc. Of INFOS2008, International conference on Information and systems*, pp. MM13-MM19 (March 2008).

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## Conferences

- 15<sup>th</sup> IEEE International Conference on Image Processing (ICIP) INFOS2008, International conference on Information and systems.

## — Languages

Arabic Native  
English Excellent

## — Computer Skills

Expert Microsoft Office training, Algorithms training, Coding, Typing

## — Social skills

Effective communication, cooperation , relationship-building, empathy, active listening, and respect.