



Faculty of Computers and Information



Menoufia University

# **Automated detection of COVID-19 cases in digital medical images using deep learning approaches**

Thesis Submitted in Accordance with Partial Fulfillment of Requirements of Menoufia University for the Degree of Master in Computers and Information

In  
[Information Technology]

By

**Mahmoud Zaky Fetoh AtaALLAH**

**Supervised By**

**Prof. Dr: Khalid M. Amin**

Professor at  
Computer Science Department,  
Faculty of Computers and Information,  
Menoufia University

[ ]

**Dr: Ahmed M. Hamad**

assistant Professor at  
Computer Science Department,  
Faculty of Computers and Information,  
Menoufia University

[ ]

**Year  
2023**



Faculty of Computers and Information



Menoufia University

# Automated detection of COVID-19 cases in digital medical images using deep learning approaches

Thesis Submitted in Accordance with Partial Fulfillment of Requirements of Menoufia University for the Degree of Master in Computers and Information

In  
[Information Technology]

By

**Mahmoud Zaky Fetoh AtaALLAH**

Demonstrator at Information technology, menofia university

**Examination Committee**

**Prof. \_\_\_\_\_**  
\_\_\_\_\_

[ \_\_\_\_\_ ]

**Prof. \_\_\_\_\_**  
\_\_\_\_\_

[ \_\_\_\_\_ ]

**Prof. \_\_\_\_\_**  
\_\_\_\_\_

[ \_\_\_\_\_ ]

**Year**  
**2023**

# AUTHOR BIOGRAPHY

<b>Name:</b>	Mahmoud Zaky Fetoh AtaALLAH
<b>Occupation:</b>	Demonstrator at Information technology
<b>Occupation Place:</b>	Faculty of computer and Information, menofia university
<b>Date of Birth:</b>	02/02/1997
<b>Educational Degrees:</b>	B.Sc. In Information Technology
<b>Educational Institution:</b>	Faculty of computer and Information, menofia university
<b>Date of graduation:</b>	May 2019
<b>B.Sc. Registration Date:</b>	25/ 02 / 2021