

[About Us \(/about-us\)](#) [Subjects](#) [Browse](#) [Products](#) [Request a trial \(/request-trial\)](#)

[Librarian Resources \(https://librarianresources.taylorandfrancis.com/\)](https://librarianresources.taylorandfrancis.com/)

[What's New!! \(https://librarianresources.taylorandfrancis.com/library-insights/collection-development-management/whats-new-on-taylor-francis-ebooks/\)](https://librarianresources.taylorandfrancis.com/library-insights/collection-development-management/whats-new-on-taylor-francis-ebooks/)

[Home \(https://www.taylorfrancis.com\)](https://www.taylorfrancis.com) > [Computer Science \(https://www.taylorfrancis.com/search?subject=SCCM&context=ubx\)](https://www.taylorfrancis.com/search?subject=SCCM&context=ubx) > [Systems & Computer Architecture \(https://www.taylorfrancis.com/search?subject=SCCM70&context=ubx\)](https://www.taylorfrancis.com/search?subject=SCCM70&context=ubx) > [Networks \(https://www.taylorfrancis.com/search?subject=SCCM7025&context=ubx\)](https://www.taylorfrancis.com/search?subject=SCCM7025&context=ubx) > [Advances in Intelligent Systems \(https://www.taylorfrancis.com/books/mono/10.1201/9781003534037/advances-intelligent-systems?refId=62210bc3-2298-448a-9072-29a862c4bb11&context=ubx\)](https://www.taylorfrancis.com/books/mono/10.1201/9781003534037/advances-intelligent-systems?refId=62210bc3-2298-448a-9072-29a862c4bb11&context=ubx) > [Sectional Convolutional Neural Network \(S-Cnn\) Model for Automated Covid Ct-Scan Images Recognition](#)



Chapter

Sectional Convolutional Neural Network (S-Cnn) Model for Automated Covid Ct-Scan Images Recognition

By Biswadev Goswami (/search?contributorName=Biswadev Goswami&contributorRole=author&redirectFromPDP=true&context=ubx), Sayed Zahir Hasan (/search?contributorName=Sayed Zahir Hasan&contributorRole=author&redirectFromPDP=true&context=ubx), Joyjit Patra (/search?contributorName=Joyjit Patra&contributorRole=author&redirectFromPDP=true&context=ubx), Monalisa Chakraborty (/search?contributorName=Monalisa Chakraborty&contributorRole=author&redirectFromPDP=true&context=ubx), Subir Gupta (/search?contributorName=Subir Gupta&contributorRole=author&redirectFromPDP=true&context=ubx)

Book [Advances in Intelligent Systems](https://www.taylorfrancis.com/books/mono/10.1201/9781003534037/advances-intelligent-systems?refId=53331b68-1dc8-496d-b6c6-d74a677c1355&context=ubx)
 (https://www.taylorfrancis.com/books/mono/10.1201/9781003534037/advances-intelligent-systems?refId=53331b68-1dc8-496d-b6c6-d74a677c1355&context=ubx).

Edition 1st Edition
 First Published 2026
 Imprint Apple Academic Press
 Pages 13
 eBook ISBN 9781003534037

This content is yet to be published.

To purchase a print version of this book for personal use or request an inspection

https://www.routledge.com/textbooks/evaluation/9781774916988?_ga=1415735566.1739285273 >>

GO TO ROUTLEDGE.COM (HTTPS://WWW.ROUTLEDGE.COM/ADVANCES-IN-INTELLIGENT-SYSTEMS)



ABSTRACT

COVID-19 can infect humans; therefore, its rapid detection is of the utmost importance. This project aims to discover and classify the Coronavirus using machine learning. The Computer-Aided Diagnosis (CAD) system should identify and acknowledge the Coronavirus in the CT-Lung examination to differentiate and classify COVID-19. Some doctors believe that RT-PCR is the most effective method for detecting coronavirus infection, while others believe that CT scans of the lungs are more reliable and less expensive. In this investigation, we apply two distinct types of datasets: those with and without coherent CT scan images. An algorithm known as the Sectional Convolutional Neural Network (S-CNN), a modified version of the Convolutional Neural Network, will be utilized to identify these studies. With S-CNN, it is possible to configure hardware to function without a high configuration. The model is then 94% accurate and relevant to today's world.

< [Previous Chapter \(chapters/edit/10.1201/9781003534037-3/ensemble-fine-tune-xception-model-predict-monkey-pox-disease-skin-lesion-images-sri-silpa-padmanabhuni-srinivasa-reddy-hanumantha-rao-mallikarjuna-reddy-manisha?context=ubx\)](#)

Next Chapter > [\(chapters/edit/10.1201/9781003534037-5/analysis-noxious-comments-using-machine-learning-kummari-vikas-kamal-kotgire-bayyapu-sai-prudhvi-reddy-kanmatha-nagasai-venkateswara-reddy-shobarani-salvadi?context=ubx\)](#)



<https://www.taylorfrancis.com>

Policies

[Privacy Policy \(https://informa.com/privacy-policy/\)](https://informa.com/privacy-policy/)

[Terms & Conditions \(/terms-and-conditions/\)](#)

[Cookie Policy \(/cookie-policy/\)](#)

[Accessibility Statement?_ga=1415735566.1739285273](https://help.taylorfrancis.com/librarians_institutions/s/article/Accessibility-Statement?_ga=1415735566.1739285273)

Journals

[Taylor & Francis Online \(https://www.tandfonline.com/\)](https://www.tandfonline.com/)
[Taylor & Francis Group \(https://taylorandfrancis.com/\)](https://taylorandfrancis.com/)
[Students/Researchers \(https://help.taylorfrancis.com/students_researchers?_ga=1415735566.1739285273\)](https://help.taylorfrancis.com/students_researchers?_ga=1415735566.1739285273)

Corporate**Help & Contact**

[Librarians/Institutions \(https://help.taylorfrancis.com/librarians_institutions?_ga=1415735566.1739285273\)](https://help.taylorfrancis.com/librarians_institutions?_ga=1415735566.1739285273)

Connect with us

[\(https://www.linkedin.com/company/taylor-and-francis-group/\)](https://www.linkedin.com/company/taylor-and-francis-group/)

Registered in England & Wales No. 3099067
5 Howick Place | London | SW1P 1WG

© 2025 Informa UK Limited