Scopus

Q Search   Lists   Sources   SciVal ↗

↓ Download   🖶 Print   📄 Save to PDF   ⭐ Add to List   📑 Create bibliography

Document type
Book Chapter

Source type
Book

ISBN
978-166847165-4, 1668471647, 978-166847164-7

DOI
10.4018/978-1-6684-7164-7.ch004

View more ⌄

Handbook of Research on Instructional Technologies in Health Education and Allied Disciplines • Pages 80 - 104 • 13 March 2023

Artificial intelligence in teleradiology: A rapid review of educational and professional contributions

Lobo, Manuel Duarte[a, b]
📑 Save all to author list

[a] Local Health Unit of the Northeast, Portugal

[b] Polytechnic Institute of Castelo Branco, Portugal

13
Citations in Scopus

147.51
FWCI ❓

View all metrics ›

Full text options ⌄   Export ⌄

Abstract

SciVal Topics

Metrics

Abstract

In recent years, artificial intelligence (AI) has been progressively merging into the daily practice of many healthcare professionals. Radiology is a branch of medicine that can benefit from these new technological advancements, as it is a data-rich medical specialty and is well-placed to embrace AI. Specifically, radiologists are in a distinctive position to support the AI revolution because of their direct access to a significant amount of data. In turn, these AI tools can improve pathology detection by radiologists, thereby resulting in better, more accurate, and sooner diagnostics. The chapter aims to provide some new insights into AI concepts, tools, and their application in medical imaging. Several technologies are becoming more available in all imaging modalities, as the COVID-19 pandemic forced a rapid transition to a new era of digital health. In conclusion, the next generation of AI-based diagnostic imaging systems will surely have a serious impact on daily educational and healthcare institutions for the next generation. © 2023, IGI Global. All rights reserved.

SciVal Topics ℹ   ⌄

Metrics   ⌄

References (100)

View in search results format ›

☐ All   Export   🖶 Print   ✉ E-mail   📄 Save to PDF   Create bibliography

☐ 1   de Almeida, R.S.

Redefining health education in the post-pandemic world: How to integrate digital technologies into the curricula?

(2023) *Handbook of Research on Instructional Technologies in Health Education and Allied Disciplines*, pp. 1-25. Cited 14 times.
https://www.igi-global.com/book/handbook-research-instructional-technologies-health/306268
ISBN: 978-166847165-4, 1668471647, 978-166847164-7

Chapters in this book
View Scopus details for this book

18 chapters found in Scopus

> **Redefining health education in the post-pandemic world: How to integrate digital technologies into the curricula?**

> Foreword

> Preface

> **Physiotherapy education in the digital era: A roadmap of educational technologies for allied health educators**

> **Bibliometric and network analyses of information and communications technology utilization in health education**

View all ⌄

Cited by 13 documents

Building a conversational chatbot using machine learning: Towards a more intelligent healthcare application
Solanki, R.K. , Rajawat, A.S. , Gadekar, A.R.
(2023) *Handbook of Research on Instructional Technologies in Health Education and Allied Disciplines*

Rethinking the continuous education and training of healthcare professionals in the context of digital technologies
da Silva, C.A. , Almeida, R.P.P. , Abrantes, A.F.
(2023) *Handbook of Research on Instructional Technologies in Health Education and Allied Disciplines*

Visual analysis of cardiac arrest prediction using machine learning algorithms: A health education awareness initiative
Mishra, N. , Desai, N.P. , Wadhwani, A.
(2023) *Handbook of Research on Instructional Technologies in Health Education and Allied Disciplines*
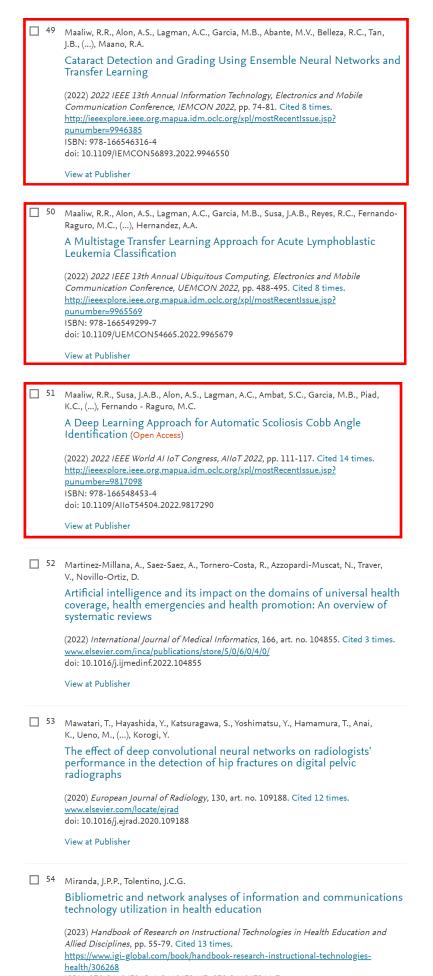
View all 13 citing documents

Inform me when this document is cited in Scopus:

Set citation alert ›

Related documents

Leveraging ethical standards in artificial intelligence technologies: A guideline for responsible teaching and learning applications
Uunona, G.N. , Goosen, L.
(2023) *Handbook of Research on Instructional Technologies in Health*

View at Publisher

☐ 49 Maaliw, R.R., Alon, A.S., Lagman, A.C., Garcia, M.B., Abante, M.V., Belleza, R.C., Tan, J.B., (...), Maano, R.A.

Cataract Detection and Grading Using Ensemble Neural Networks and Transfer Learning

(2022) *2022 IEEE 13th Annual Information Technology, Electronics and Mobile Communication Conference, IEMCON 2022*, pp. 74-81. Cited 8 times.
http://ieeexplore.ieee.org.mapua.idm.oclc.org/xpl/mostRecentIssue.jsp?punumber=9946385
ISBN: 978-166546316-4
doi: 10.1109/IEMCON56893.2022.9946550

View at Publisher

☐ 50 Maaliw, R.R., Alon, A.S., Lagman, A.C., Garcia, M.B., Susa, J.A.B., Reyes, R.C., Fernando-Raguro, M.C., (...), Hernandez, A.A.

A Multistage Transfer Learning Approach for Acute Lymphoblastic Leukemia Classification

(2022) *2022 IEEE 13th Annual Ubiquitous Computing, Electronics and Mobile Communication Conference, UEMCON 2022*, pp. 488-495. Cited 8 times.
http://ieeexplore.ieee.org.mapua.idm.oclc.org/xpl/mostRecentIssue.jsp?punumber=9965569
ISBN: 978-166549299-7
doi: 10.1109/UEMCON54665.2022.9965679

View at Publisher

☐ 51 Maaliw, R.R., Susa, J.A.B., Alon, A.S., Lagman, A.C., Ambat, S.C., Garcia, M.B., Piad, K.C., (...), Fernando - Raguro, M.C.

A Deep Learning Approach for Automatic Scoliosis Cobb Angle Identification (Open Access)

(2022) *2022 IEEE World AI IoT Congress, AIIoT 2022*, pp. 111-117. Cited 14 times.
http://ieeexplore.ieee.org.mapua.idm.oclc.org/xpl/mostRecentIssue.jsp?punumber=9817098
ISBN: 978-166548453-4
doi: 10.1109/AIIoT54504.2022.9817290

View at Publisher

☐ 52 Martinez-Millana, A., Saez-Saez, A., Tornero-Costa, R., Azzopardi-Muscat, N., Traver, V., Novillo-Ortiz, D.

Artificial intelligence and its impact on the domains of universal health coverage, health emergencies and health promotion: An overview of systematic reviews

(2022) *International Journal of Medical Informatics*, 166, art. no. 104855. Cited 3 times.
www.elsevier.com/inca/publications/store/5/0/6/0/4/0/
doi: 10.1016/j.ijmedinf.2022.104855

View at Publisher

☐ 53 Mawatari, T., Hayashida, Y., Katsuragawa, S., Yoshimatsu, Y., Hamamura, T., Anai, K., Ueno, M., (...), Korogi, Y.

The effect of deep convolutional neural networks on radiologists' performance in the detection of hip fractures on digital pelvic radiographs

(2020) *European Journal of Radiology*, 130, art. no. 109188. Cited 12 times.
www.elsevier.com/locate/ejrad
doi: 10.1016/j.ejrad.2020.109188

View at Publisher

☐ 54 Miranda, J.P.P., Tolentino, J.C.G.

Bibliometric and network analyses of information and communications technology utilization in health education

(2023) *Handbook of Research on Instructional Technologies in Health Education and Allied Disciplines*, pp. 55-79. Cited 13 times.
https://www.igi-global.com/book/handbook-research-instructional-technologies-health/306268
ISBN: 978-166847165-4; 1668471647; 978-166847164-7