Editorial

The fourth volume of Aurum Journal of Health Sciences (AJHS) is published in 2022 with a change in the editorial board. I would like to thank all the members of the previous editorial board, especially the Editor-in-Chief Dr. Gaye Hafez. I wish success to the new editorial board members of our journal.

In our new issue, we published original research topics in the field of health sciences. We issued four original articles in this issue. In the first article titled "Building an Electronic Health Portal With an E-Health Application to Communicate With Patients" the design and implementation of a common electronic health records system, which various clinicians and patients can access, is presented depending on the RBAC access control. The authors focused on creating a patient- specific password through PHP programming functions. According to the authors; it is also possible on this portal, to establish effective communication between the doctor and the patient, such as booking appointment electronically. Moreover, doctors can use the system to communicate urgent reports regarding the spread of newly discovered pandemics such as COVID-19.

In the second article titled "Detection of COVID-19 Pneumonia Effects in Chest X-Rays Using Deep Learning" an artificial intelligence tool is presented. The development of technological tools based on artificial intelligence could contribute significantly to the fight against COVID-19. In this paper, the authors proposed a deep learning based model for COVID-19 detection relying on the effects it yields on the lungs.

In the third article titled "Detection of COVID-19 in Low Energy Chest X-Rays Using Fast R-CNN", the authors presented a variation of convolutionary neural networks, which works extremely well on current data set — a customized architecture with optimal parameters. In their contribution, they focus on lowering the complexity of the network, while yet reaching a phenomenally high degree of accuracy. To achieve this aim, authors' model has been tailored for high performance and an easy design.

In the last article in this issue, "A New Method Based CNN Combined With Genetic Algorithm and Support Vector Machine for COVID-19 Detection By Analyzing X-Ray Images", a COVID-19 detection framework presented to detect COVID-19 by analyzing X-ray tests. The proposed framework based CNN combined with genetic algorithm and SVM classifier.

As can be seen, in this issue of our journal, the artificial intelligence based monitoring of the COVID-19 pandemic with computer applications was mainly discussed. All articles in this issue have been reviewed after careful review processes. We would like to thank all authors and reviewers for their valuable contributions.

Prof. Dr. Osman Nuri Uçan
Editor-in-Chief, Aurum Journal of Health Sciences