Special Issue

Deep Learning-Based Biometric Recognition

Message from the Guest Editor

During the past few years, with the advances in deep learning, many new computation models have been proposed and significantly applied in speech and language processing, information security, etc. Biometric authentication is part of a broader family of information security. Biometrics authentication is used in computer science as a form of identification and access control. Biometric recognitions include both physiological and behavioral characteristics. The recognition rates of the biometric identifiers are usually decreased in the different environments using the heuristic approaches but they can be improved through deep learning. The goal of this special issue is to bring together a diverse but complementary set of contributions on emerging deep learning methods for problems in biometrics. The topics of this special issue include but not limit to the following:

- Big data and large scale methods for biometrics
- Biometrics in fingerprint, veins, face, DNA, palm print, hand geometry, iris, retina, EEG, heart beat and odour/scent
- Biometrics in typing rhythm, gait, and voice
- Biometrics in medical applications

Guest Editor

Prof. Dr. Shi-Jinn Horng

Department of Computer Science and Information Engineering, National Taiwan University of Science and Technology, Taipei 10672, Taiwan

Deadline for manuscript submissions

closed (31 December 2021)



Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



mdpi.com/si/32394

Applied Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 applsci@mdpi.com

mdpi.com/journal/ applsci





Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



<u>applsci</u>



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)