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Application of Transfer Learning and Ensembling Techniques for Cyber Security, Medicine, and Education Using Sensing Data

Guest Editors:

Dr. Kamran Shaukat

School of Information and Physical Sciences, The University of Newcastle, Callaghan, NSW 2308, Australia

Dr. Suhuai Luo

School of Design Communication and IT, The University of Newcastle, Newcastle, Australia

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Message from the Guest Editors

Over the past decade, the rise of machine learning (ML) and deep learning (DL) evolved in various areas of life, especially in medicine, cyber security, finance, and education. In machine learning, the development of ensemble methods has gained significant attention from the scientific community. Machine learning ensemble methods combine multiple learning algorithms to obtain a better predictive performance than could be obtained from any of the constituent learning algorithms alone.

On the other hand, deep learning methods have actively been extended to other parts of machine learning, including reinforcement learning and transfer/meta-learning. At the same time, standard deep learning methods, such as convolutional neural networks (CNNs), have also been extensively studied and applied to diverse industrial fields. The training of these networks depends upon the data. The sensing data could be collected through sensors, images, actuators, virtual learning environments (for education), and IoT devices.



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Special Issue



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Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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