# Federated and Transfer Learning Applications

Guest Editors:

**Dr. George Drosatos**
Institute for Language and
Speech Processing, Athena
Research Centre, Kimmeria
University Campus, 67100 Xanthi,
Greece

**Prof. Dr. Pavlos S. Efraimidis**
Department of Electrical and
Computer Engineering,
Democritus University of Thrace,
67100 Xanthi, Greece

**Prof. Dr. Avi Arampatzis**
Department of Electrical and
Computer Engineering,
Democritus University of Thrace,
67100 Xanthi, Greece

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submissions:
**closed (20 March 2023)**

## Message from the Guest Editors

In this Special Issue, we seek research and case studies
that demonstrate the application of federated and transfer
learning approaches to support applied scientific research,
in any area of science and technology. Example topics
include (but are not limited to) the following:

- Federated Learning (FL) Applications.
- Distributed Learning Approaches.
- Privacy-Preserving Techniques in FL.
- Homomorphic Encryption Approaches in FL.
- Differential Privacy Approaches in FL.
- Incentive Mechanisms in FL.
- Interpretability in FL.
- FL with Unbalanced Data.
- Selection of Appropriate FL Aggregation Function
  per Application.
- Transfer Learning (TL) Applications.
- Pre-Trained Models.
- BERT-Like Models.
- Federated Transfer Learning Approaches.
- Applications of FL and TL in Biomedical Domain.
- Applications of FL and TL in Cybersecurity.
- Applications of FL and TL in Natural Language
  Processing.
- Applications of FL and TL in Social Network
  Analysis.
- Graph-based FL and TL.

Special Issue

## Editor-in-Chief

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

## 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.

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