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A special issue of _**Applied Sciences**_ **(/journal/applsci)** (ISSN 2076-3417). This special issue belongs to the section "**Computing and Artificial Intelligence (/journal/applsci/sections/computing_artificial_intelligence)**".

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Special Issue Information

Dear Colleagues,

Recent advances in Pattern Recognition have been boosting the development of intelligent applications for many different kinds of industries/domains. Such solutions are not only seamlessly integrated in the environment, but typically have large adaptability for unexpected conditions, which increases their usefulness for real-world problems.

The New Trends on Pattern Recognition, Applications and Systems special issue aims to collect the latest approaches and findings, as well as to discuss the current challenges of Pattern recognition solutions for a broad range of applications. We expect this special issue addresses the research issues in the closely related areas of Pattern Recognition, such as Machine Learning, Data Mining, Computer Vision and Image Processing. We encourage the interdisciplinary research and applications of these areas.

We welcome high-quality submissions with important new theories, methods, applications, and systems in emerging topics of pattern recognition. The topics of interest include, but are not limited to:

- Interpretable Machine Learning for Computer Vision;

- Automated Deep Learning, including one or multiple stages of the machine learning process (e.g., data pre-processing, network architecture selection, hyper-parameter optimisation);

- Zero-shot learning applied to real-world problems, such as Medical Imaging or Autonomous Systems;

- Neural Rendering, including any approach using deep generative models for the generation of photo-realistic virtual data;

- Autonomous Driving, including novel methods for object detection, object classification, object tracking and prediction of movement;

- Semi-supervised, Weakly-supervised and Unsupervised learning frameworks for Pattern Recognition systems;

- Real-time Pattern Recognition applications;

- Multi-modal solutions for Pattern Recognition problems;

- Signal processing for Pattern Recognition solutions;

- Ethics/Privacy issues in deploying Pattern Recognition-based systems;

- Benchmarks of current Pattern Recognition-based solutions for real-world problems;

Prof. Dr. Hugo Pedro Proença
Prof. Dr. João C. Neves
Guest Editors

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Keywords

- Machine Learning
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- Signal processing
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