

Special Issue

Advance of Applied Statistics to White-Boxing AI in Engineering

Message from the Guest Editor

Artificial intelligence implementation is vastly beneficial. Engineers may manage pre-featured AI applications either as black boxes, to be properly fed with input, or as parts of their own design tools that can be explicitly integrated into overall projects. The second option requires white boxing the apps in terms of their statistic rationale, from the current perspective of machine learning methods, so as to restore a good level of knowledge symmetry between the designer and the implementer of the apps. This Special Issue aims to collect papers that reflect the advanced practices and research of statistics to convert AI engineering applications from third-party facilities to regular tools of the design arsenal with which engineers can be called to renew the industrial world.

Guest Editor

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Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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