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Human-Centric AI: The Symbiosis of Human and Artificial Intelligence

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Message from the Guest Editors

In order to fully trust, accept, and adopt newly emerging AI solutions in our everyday lives and practices, we need explainable AI (XAI) that can provide human-understandable interpretations for their algorithmic behavior and outcomes, enabling us to control and continuously improve their performance, robustness, fairness, accountability, transparency, and explainability throughout the entire lifecycle of AI application.

All contributions should include and explain the role of entropy, information theory, or complexity science concepts and applications in human-centric explainable AI for understanding the relationships between accuracy, reliability, robustness to adversarial attacks, fairness, accountability, transparency, causality, or explainability in different types of deep learning models.



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Special Issue



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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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