Special Issue

Holistic AI Technologies and Applications

Message from the Guest Editors

Holistic artificial intelligence mainly studies the theories, technologies, mechanisms, paradigms and frameworks required for the systematic reconstruction of artificial intelligence. It comprises big loop AI (to realize an end-to-end optimization with cascade and parallel AI capabilities), atomized AI (to dismantle and refactor AI capability in a reusable manner), network native AI (to standardize AI capability and computability as a service for on-demand schedule via network), and trusted AI (to ensure traceability, trustworthiness, auditability and defensibility during AI process). Relying on the ubiquitous network and computability, holistic artificial intelligence realizes flexible and efficient configuration, scheduling, training, and deployment of AI capabilities in an open environment, so as to meet the increasingly rich digital intelligent business needs while ensuring that AI business is trusted and controllable.

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