

VOLUME
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Global Artificial Intelligence Development and
Competitiveness Assessment Framework

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Volume II examines how artificial intelligence capabilities are developed, deployed, and translated into economic, societal, and strategic competitiveness.

It covers three connected dimensions: algorithms and platforms, AI applications, and competitiveness. The volume assesses algorithmic performance and innovation capacity, AI research and development ecosystems, technological autonomy, public and industrial applications, and sectoral deployment across areas such as manufacturing, finance, healthcare, education, robotics, and autonomous systems.

Building on these technological and application foundations, Volume II evaluates how AI capabilities translate into broader competitive outcomes, including economic contribution, industrial resilience, labor-market and societal effects, technological dependence and autonomy, export capability, international influence, and contributions to frontier science.

About the Four-Volume Series

This four-volume series provides a systematic examination of global AI development, competitiveness, and AI power. Moving from foundational infrastructure and technological capabilities through applications and competitiveness to governance, risk, human capital, frontier indicators, and future-oriented strategic pathways, the series establishes a comprehensive assessment framework for understanding how AI capabilities are built, deployed, measured, governed, and transformed into durable national, institutional, and strategic power in an increasingly competitive global landscape.



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Volume II: Algorithms, Applications, and Competitiveness

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