

AI-Designed Chips

For AI by AI

- “Our method was used to design the next generation of Google’s artificial intelligence (AI) accelerators, and has the potential to save thousands of hours of human effort for each new generation.”

<https://www.nature.com/articles/s41586-021-03544-w.epdf>

ARTIFICIAL INTELLIGENCE

Google uses AI to design next-gen chips faster than humans

Designs that take humans months can be matched or beaten by AI in six hours.

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- Chip floorplanning: designing physical layout of a computer chip.
- Despite decades of research, chip floorplanning has defied automation, **requiring months of intense effort** by physical design engineers
- Deep reinforcement learning approach to chip floorplanning
- **In under six hours**, automatically generates chip floorplans superior or comparable to those produced by humans in all key metrics, including power consumption, performance and chip area.