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When evaluated on Go, chess and shogi, without any knowledge of the game rules, MuZero matched the superhuman performance of the AlphaZero algorithm that was supplied with the game rules. 1 Introduction Planning algorithms based on lookahead search have achieved remarkable successes in artificial intelligence.

**arXiv:1911.08265v2 [cs.LG] 21 Feb 2020**

AlphaZero: Shedding new light on chess, shogi, and Go In late 2017 we introduced AlphaZero, a single system that taught itself

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from scratch how to master the games of chess, shogi (Japanese chess), and Go, beating a world-champion program in each case.

### **AlphaZero: Shedding new light on chess, shogi, and Go ...**

Silver et al. developed a program called AlphaZero, which taught itself to play Go, chess, and shogi (a Japanese version of chess) (see the Editorial, and the Perspective by Campbell).

AlphaZero...

### **A general reinforcement learning algorithm that masters**

...

Mastering Atari, Go, Chess and Shogi by Planning with a Learned Model Julian Schrittwieser,<sup>1\*</sup> Ioannis Antonoglou,<sup>1,2\*</sup> Thomas Hubert,<sup>1\*</sup> Karen Simonyan,<sup>1</sup> Laurent Sifre,<sup>1</sup> Simon Schmitt,<sup>1</sup> Arthur Guez,<sup>1</sup> Edward Lockhart,<sup>1</sup> Demis Hassabis,<sup>1</sup> Thore Graepel,<sup>1,2</sup> Timothy Lillicrap,<sup>1</sup>

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### **Mastering Atari, Go, Chess and Shogi by Planning with a**

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Called AlphaZero, the system learns chess by playing itself and training its neural networks based on the outcomes. More importantly, the same setup has also mastered shogi (a harder game than chess) and a far more complex game called Go.

### **Artificial Intelligence: Mastering Chess, Then Societal ...**

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Mastering Chess and Shogi by Self-Play with a General Reinforcement Learning Algorithm. Close. 362. Posted by 2 years ago. Archived. ... AlphaZero achieved within 24 hours a

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superhuman level of play in the games of chess and shogi (Japanese chess) as well as Go, and convincingly defeated a world-champion program in each case. ...

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Shogi, that we can simply describe as Japanese chess, is a Japanese board strategy game that shares the same roots as chess. Kagawa started playing in 3rd grade and turned pro when she was still ...

### **Manao Kagawa, Pro Shogi Player - toco toco**

I'm wondering why DeepMind choose Shogi out of many board games beside Go (chess is understandable) and finally found some clues Yoshiharu Habu is the only person ever to hold seven Shogi titles simultaneously in 1996, even right now he's still holding two of it, and the only person ever to has all seven lifetime titles. He's also Chess Master.



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## **AlphaZero paper discussion (Mastering Go, Chess, and Shogi ...**

Yoshiharu Habu is a professional shogi player and a chess FIDE Master. His master is Tatsuya Futakami. He is the only person to simultaneously hold seven major professional shogi titles at the same time and is also the only person to qualify as a lifetime title holder for seven major titles. In January 2018, Habu became the first professional shogi player to be awarded Japan's People's Honour Award.

## **Yoshiharu Habu - Wikipedia**

Starting from random play and given no domain knowledge except the game rules, AlphaZero convincingly defeated a world champion program in the games of chess and shogi (Japanese chess) as well as Go. AlphaGo Zero - Mastering the game of Go without human knowledge

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## **publications - furidamu**

MuZero is a computer program developed by artificial intelligence research company DeepMind to master games without knowing anything about their rules. Its first release in 2019 included benchmarks of its performance in go, chess, shogi, and a standard suite of Atari games. The algorithm uses an approach similar to AlphaZero. It matched AlphaZero's performance in chess and shogi, improved on its ...

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