

# Human Go champ says machine not superior despite 1:4 defeat

15 March 2016, by Youkyung Lee



South Korean professional Go player Lee Sedol puts the first stone against Google's artificial intelligence program, AlphaGo, as Google DeepMind's lead programmer Aja Huang, left, sits during the final match of the Google DeepMind Challenge Match in Seoul, South Korea, Tuesday, March 15, 2016. A champion Go player scored his first win over a Go-playing computer program on Sunday after losing three straight times in the ancient Chinese board game, saying he finally found weaknesses in the software. (AP Photo/Lee Jin-man)

Game not over? Human Go champion Lee Sedol says Google's Go-playing program AlphaGo is not yet superior to humans, despite its 4:1 victory in a match that ended Tuesday.

The week-long showdown between the South Korean Go grandmaster and Google DeepMind's [artificial intelligence](#) program showed the computer software has mastered a major challenge for artificial intelligence.

"I don't necessarily think AlphaGo is superior to me. I believe that there is still more a human being could do to play against artificial intelligence," Lee said after the nearly five-hour-long final game.

AlphaGo had the upper hand in terms of its lack of

vulnerability to emotion and fatigue, two crucial aspects in the intense brain game.

"When it comes to psychological factors and strong concentration power, humans cannot be a match," Lee said.

But he added, "I don't think my defeat this time is a loss for humanity. It clearly shows my weaknesses, but not the weakness of all humanity."

He expressed deep regret for the loss and thanked his fans for their support, saying he enjoyed all five matches.

Lee, 33, has made his living playing Go since he was 12 and is famous in South Korea even among people who do not play the game. The entire country was rooting for him to win.



South Korean professional Go player Lee Sedol, center, arrives at a hotel with his daughter Lee Hye-lim for the final match of the Google DeepMind Challenge Match against Google's artificial intelligence program, AlphaGo, in Seoul, South Korea, Tuesday, March 15, 2016. A champion Go player scored his first win over a Go-playing computer program on Sunday after losing three straight times in the ancient Chinese board game, saying

he finally found weaknesses in the software. (AP Photo/Lee Jin-man)

The series was one of the most intensely watched events in the past week across Asia. The human-versus-machine battle hogged headlines, eclipsing reports of North Korean threats of a pre-emptive strike on the South.

The final game was too close to call until the very end. Experts said it was the best of the five games in that Lee was in top form and AlphaGo made few mistakes. Lee resigned about five hours into the game.

The final match was broadcast live on three major TV networks in South Korea and on big TV screens in downtown Seoul.



South Korean professional Go player Lee Sedol, center, enters with his daughter Lee Hye-lim for the final match of the Google DeepMind Challenge Match against Google's artificial intelligence program, AlphaGo, in Seoul, South Korea, Tuesday, March 15, 2016. A champion Go player scored his first win over a Go-playing computer program on Sunday after losing three straight times in the ancient Chinese board game, saying he finally found weaknesses in the software. (AP Photo/Lee Jin-man)

Google estimated that 60 million people in China,

where Go is a popular pastime, watched the first match on Wednesday.

Before AlphaGo's victory, the ancient Chinese board game was seen as too complex for computers to master. Go fans across Asia were astonished when Lee, one of the world's best Go players, lost the first three matches.

Lee's win over AlphaGo in the fourth match, on Sunday, showed the machine was not infallible: Afterward, Lee said AlphaGo's handling of surprise moves was weak. The program also played less well with a black stone, which plays first and has to claim a larger territory than its opponent to win.



South Korean professional Go player Lee Sedol, right, watches as Google DeepMind's lead programmer Aja Huang, left, puts the Google's artificial intelligence program, AlphaGo's first stone during the final match of the Google DeepMind Challenge Match in Seoul, South Korea, Tuesday, March 15, 2016. A champion Go player scored his first win over a Go-playing computer program on Sunday after losing three straight times in the ancient Chinese board game, saying he finally found weaknesses in the software. (AP Photo/Lee Jin-man)

Choosing not to exploit that weakness, Lee opted for a black stone in the last match.

Go players take turns placing the black and white stones on 361 grid intersections on a nearly square board. Stones can be captured when they are surrounded by those of their opponent.

To take control of territory, players surround vacant areas with their stones. The game continues until both sides agree there are no more places to put stones, or until one side decides to quit.



South Korean professional Go player Lee Sedol, right, puts the first stone against Google's artificial intelligence program, AlphaGo, as Google DeepMind's lead programmer Aja Huang, left, sits during the final match of the Google DeepMind Challenge Match in Seoul, South Korea, Tuesday, March 15, 2016. A champion Go player scored his first win over a Go-playing computer program on Sunday after losing three straight times in the ancient Chinese board game, saying he finally found weaknesses in the software. (AP Photo/Lee Jin-man)

Google officials say the company wants to apply technologies used in AlphaGo in other areas, such as smartphone assistants, and ultimately to help scientists solve real-world problems.

As for Go, other top players are bracing themselves.

Chinese world Go champion Ke Jie said it was just a matter of before top Go players like himself would be overtaken by artificial intelligence.



South Korean professional Go player Lee Sedol waits before entering the venue for the final match of the Google DeepMind Challenge Match against Google's artificial intelligence program, AlphaGo, in Seoul, South Korea, Tuesday, March 15, 2016. A champion Go player scored his first win over a Go-playing computer program on Sunday after losing three straight times in the ancient Chinese board game, saying he finally found weaknesses in the software. (AP Photo/Lee Jin-man)

"It is very hard for Go players at my level to improve even a little bit, whereas AlphaGo has hundreds of computers to help it improve and can play hundreds of practice matches a day," Ke said.

"It does not seem like a good thing for we professional Go [players](#), but the match played a very good role in promoting Go," Ke said.

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