HUNGARY today

László Lovász Awarded Abel Prize, 'Math's Nobel'

Tamás Vaski 2021.03.17.

Write in the necessary prepositions

The Norwegian Academy ……. Science and Letters has awarded László Lovász and Avi Wigderson the Abel Prize, the equivalent ……. the Nobel Prize within the field ……..mathematics.

László Lovász, former president ……the Hungarian Academy ……. Sciences (MTA), professor emeritus at Eötvös Loránd University (ELTE), and current research professor at Budapest's Rényi Alfréd Mathematical Research Institute, has contributed immensely …… both the field of mathematics and the development of Hungary's education system.

The other recipient for this year's Abel Prize, Avi Wigderson, is the Herbert H. Maass Professor in the school of mathematics …….. the institute for Advanced Study in Princeton, New Jersey. Wigderson has also worked extensively …… the field of mathematics and computer science.

Math is not one of the disciplines which can be awarded the Nobel Prize, therefore the Abel Prize is considered to hold a similar status.

Grand Steps for Mathematics

The two mathematicians have been awarded the prize "…… their foundational contributions to theoretical computer science and discrete mathematics, and their leading role …… shaping them into central fields of modern mathematics," the academy announced.

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Both Lovász and Wigderson have focused their research ..... the theory of computational complexity.

Hans Munthe-Kass, chair of the Abel committee, said:

Lovász and Wigderson have been leading forces ..... this development over the last decades. Thanks to their leadership discrete mathematics and the relatively young field ..... theoretical computer science are now established as central areas of modern mathematics."

A Pioneer in Computer Science Algorithms

Born ..... Budapest ..... 1948, László Lovász has been a crucial actor in connecting the disciplines of discrete mathematics and computer science. ..... addition to having authored many books and scientific publications, Lovász is an inspiring speaker who has played a crucial role ..... the advancement of education.

Lovász is responsible ..... the revolutionary LLL algorithm, which has had multiple applications ..... areas such as number theory, cryptography, and mobile computing.

Lovász has won awards such as the 1999 Wolf Prize, the 1999 Knuth Prize, the 2001 Gödel Prize, and the 2010 Kyoto Prize.

Developing Computer Technology Without a Computer

In an interview with Telex, Lovász discussed his work in discrete mathematics and computer science, the theory of computational complexity, his famous LLL algorithm, and the environment of his research ..... communist Hungary.

When asked about the availability of computers ..... the 60s and 70s, Lovász said "..... the beginning there were non, but in the beginning we

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did not even need a machine, since we were strictly interested in the theoretical side of computer technology."

Lovász acquired his first computer …….. 1986, an IBM XT, on which he would begin the experimentation of his various algorithms.

Lovász told the news portal that there were some obstacles to the research of mathematics at the time, such as bureaucratic difficulties in accessing foreign sources. Ultimately, however, there was no such overbearing pressure that would have severely obstructed him in his work.

Contributions to Hungarian Education

Not only is Lovász known …… his contributions ……. the field of computer science, but he has also been a crucial figure ……. the development of education in Hungary.

Becoming the president of the Hungarian Academy of Sciences in 2014, Lovász said "I consider it my main task to maintain a high level of public trust ……. the Hungarian Academy of Sciences."

……. his time at the academy, he initiated multidisciplinary research programs such as the Subject Pedagogical Research Program, the National Water Science Program, the Agricultural Research Program, and the public health program.

Furthermore, his advocacy for women's involvement in math, physics, and other natural sciences resulted …….. a significant increase in the number of female academics in Hungary between 2017 and 2019.

The work of people such as László Lovász and Avi Wigderson has been essential …… the development of computer science as we know it today.

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