Extremal graph problems

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Extremal Graph Theory is a fast-changing are of Discrete Mathematics, in itself, and this is even faster because of the Artificial Intelligence. In my lecture I will speak about selected old extremal problems, their background, and the reason why I feel they are interesting. Most of them came from my work together with Erdős, Vera Sós, and other coauthors.

I myself feel that a conjecture is good not because it guesses the truth but because thinking about them we get understanding the mathematics better.

Of course, my most interesting – but new – problem is, what will happen under the influence of AI to that part of mathematics which I love, . Unfortunately, I do not know the answer.