

Re: Algorithmic complexity of a graph

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caterina <caterina.mora@uibk.ac.at> wrote in message news:<rwff2c1dqg8q@legacy>...

> *Hi!*

>

> *I don't know if this is the right place to ask this question, but I*

> *have no other ideas...*

>

> *Does by chance anyone know of a definition of the ALGORITHMIC (or*

> *Kolmogorov) complexity of a graph? And, in case, could you suggest*

> *where I could look for it?*

>

> *I have only found definitions of computational complexity...*

>

> *Thanks a lot!!!*

>

> *cat*

Well, I reckon you could fix some system of notation and count the bits necessary to describe a graph in such a system – for instance you could count the 1's in the adjacency matrix.

Apropos, the number of spanning trees is often called the "complexity" of a graph. Depending on your needs, you might find this a useful measure too.

HTH,
Felix.