

RANDOMNESS AND ANI-RANDOMNESS
IN COMPUTABILITY THEORY

ADAM DAY

The last decade has seen a number of developments in the area of algorithmic randomness. Through a combination of measure theory and computability theory, algorithmic randomness provides a means to gauge the randomness content of a real number. One interesting development has been the discovery of a set of reals that are arguably anti-random. We will provide an overview of the main concepts in algorithmic randomness and summarize some recent work. This will include some results of the speaker with Joseph Miller on computability theoretic interactions between random and anti-random reals.

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