

## **Recursively Enumerable Sets And Degrees A Study Of Computable Functions And Computably Generated Sets Perspectives In Mathematical Logic By Robert I Soare 1999 12 17**

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### **Recursively Enumerable Sets And Degrees**

Recursively Enumerable Sets and Degrees: A Study of Computable Functions and Computably Generated Sets (Perspectives in Mathematical Logic) Softcover reprint of the original 1st ed. 1987 Edition.

### **Recursively Enumerable Sets and Degrees: A Study of ...**

Recursively Enumerable Sets and Degrees A Study of Computable Functions and Computably Generated Sets. Authors: Soare, Robert I.

### **Recursively Enumerable Sets and Degrees - A Study of ...**

A finite lattice that can't be embedded in the r.e. degrees. A degree is called recursively enumerable (r.e.) if it contains a recursively enumerable set. Every r.e. degree is below  $0'$ , but not every degree below  $0'$  is r.e.. (G. E. Sacks, 1964) The r.e. degrees are dense; between any two r.e. degrees there is a third r.e. degree.

### **Turing degree - Wikipedia**

Recursively Enumerable Sets and Degrees. : ..."The book, written by one of the main researchers on the field, gives a complete account of the theory of r.e. degrees. .... The definitions, results...

### **Recursively Enumerable Sets and Degrees: A Study of ...**

[Sh1] R. A. Shore, A decidable class of two quantifier sentences in the theory of the recursively enumerable degrees, vol. 24 Notices Amer. Math. Soc. (1977), A-436. Abstract #77T-E48. [Sh2] R. A. Shore, Nowhere simple sets and the lattice of recursively enumerable sets, J. Symbolic Logic 43 (1978), 322-330.

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## **Recursively enumerable sets and degrees (1987)**

Recursively-enumerable sets contained in a complete  $r$ -degree are called  $r$ -complete. Minimal  $r$ -degrees are those having only one strictly smaller  $r$ -degree, in fact  $\mathbf{0}$ . The study of reducibilities has been developed in two directions.

## **Recursive set theory - Encyclopedia of Mathematics**

In computability theory, traditionally called recursion theory, a set  $S$  of natural numbers is called recursively enumerable, computably enumerable, semidecidable, provable or Turing-recognizable if: There is an algorithm such that the set of input numbers for which the algorithm halts is exactly  $S$ .

## **Recursively enumerable set - Wikipedia**

The Recursively Enumerable Degrees Richard A. Shore Department of Mathematics White Hall Cornell University Ithaca Ny 14853 USA September 9, 1997 1. Introduction Decision problems were the motivating force in the search for a formal definition of algorithm that constituted the beginnings of recursion (computability) theory.

## **The Recursively Enumerable Degrees**

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On a Class of Recursively Enumerable Sets. Farzad Didehvar - 1999 - Mathematical Logic Quarterly 45 (4):467-470. Decidability of the Two-Quantifier Theory of the Recursively Enumerable Weak Truth-Table Degrees and Other Distributive Upper Semi-Lattices.

## **Robert I. Soare, Recursively Enumerable Sets and Degrees ...**

Recursively enumerable sets and degrees March 1987. March 1987. Read More. Author: Robert I. Soare. Univ. of Chicago, Chicago, IL

## **Recursively enumerable sets and degrees | Guide books**

By degree we mean degree of recursive unsolvability as defined by Kleene and Post [2]. A degree is called recursively enumerable if it is the degree of a recursively enumerable set. The upper semi-lattice of recursively enumerable degrees has a least member,  $0$ , the degree of all recursive sets, and a greatest member,  $0'$ , the degree of all complete sets.

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## **The Recursively Enumerable Degrees are Dense**

Much recent research on Turing degrees has focused on the overall structure of the set of Turing degrees and the set of Turing degrees containing recursively enumerable sets. A deep theorem of Shore and Slaman (1999) states that the function mapping a degree  $x$  to the degree of its Turing jump is definable in the partial order of the Turing degrees.

## **Computability theory - Wikipedia**

Let  $W_e$  be the  $e$ th recursively enumerable (r.e.) set in a standard enumeration. The fixed point form of Kleene's recursion theorem asserts that for every recursive function  $f$  there exists  $e$  which is a fixed point of  $f$  in the sense that  $W_e = W_{f(e)}$ . In this paper our main concern is to study the degrees of functions with no fixed points.

## **Recursively enumerable sets modulo iterated jumps and ...**

Properties. If  $A$  is a recursive set then the complement of  $A$  is a recursive set. If  $A$  and  $B$  are recursive sets then  $A \cap B$ ,  $A \cup B$  and the image of  $A \times B$  under the Cantor pairing function are recursive sets. A set  $A$  is a recursive set if and only if  $A$  and the complement of  $A$  are both recursively enumerable sets. The preimage of a recursive set under a total computable function is a ...

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