Bounded Queries in Recursion Theory: A Survey

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1 Introduction

Imagine that you are given an oracle for the halting set but you can only ask it (say) 5 questions (no time or space bound on computation). What can you compute? Could you compute more with 6 queries? More generally, if $m \in \mathbf{N}$ and $A \subseteq \mathbf{N}$ then

- What functions can we compute with m queries to A?

- Are there functions that can be computed with m queries to A that cannot be computed with $m - 1$ queries to A? To any set X?

In this paper we survey much of the work that has been done on these two questions. Our framework is recursion-theoretic— the computations have no time or space bound.

Several people have studied this problem with different motivations:

While Richard Beigel was looking for a thesis topic, he (together with Jon Seigel) pondered the following question "What could be computed if a Turing machine were allowed to compute 'forever'?" Could the notion of 'forever' be quantified? One way to formalize the notion of 'forever' was to look at queries to K. One way to quantify this notion was to put explicit bounds on the number of queries. Thus

the following natural question arose: "Are $i+1$ queries to K more powerful than i queries to K?" This question can be interpreted in four different ways depending on whether one is computing functions or deciding sets; and whether the queries are serial or parallel. He showed that answer is YES in all these cases [6, 16]. He later extended many of his results to general nonrecursive sets [6].

Louise Hay was initially interested in the n-r.e. sets, which are a stratification of some of the sets that are $\leq_T K$ (we define n-r.e. in Section 10). The queries-to-K hierarchy is another stratification of those same sets. Hay was concerned with how these two hierarchies relate to each other. The main theorem of [16], also stated in Section 10, answered her questions.

William Gasarch initially wanted to develop a complexity theory within recursion theory, with the number-of-queries-to-an-oracle being the resource of interest [26]. This goal is partially realized in [12, 13] where several problems about finding the chromatic number of a recursive graph are characterized in terms of bounded queries. These results will be reviewed in Section 13.

2 Technical Summary

We now formally define bounded query classes.

Bounded Queries In Recursion Theory

Rosina Ehmann

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