Average-Case Complexity — Addendum

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We neglected to give a number of important references in our review paper on average-case complexity [BT06].

The discussion of average-case tractability in Section 2 follows the treatment of Impagliazzo [Imp95]. In particular, Impagliazzo introduced the notion of heuristic scheme and proved that the notion of tractability defined by Levin is equivalent to the existence of errorless heuristic schemes.

The discussion of completeness in Section 3 follows the treatment of Goldreich's note [Gol97]. The use of the Bounded Halting problem as a complete problem appears in the work of Ben-David et al. [BDCGL92].

A number of distributional problems are known to be complete for $\langle \mathrm{NP}, \mathrm{PComp} \rangle$, including coloring problems and matrix representation problems [VL88, Gur90, VR92]

References

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