Foundations of Computing

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Updatings

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1 Chapter 1

page 43, line +24: New largest discovered prime is, due to Spence, Woltman ei al, $2^{2976221} - 1$, from 1997 and it has 895932 digits.

page 76, factorization of integers: An easy to understand description of basics of two main methods tofactorize integers — Eliptic Curve Method and Quandratic Sieve Method — is due to von Johannes Buchmann: Faktorisierung grosser Zahlen, Spektrum der Wisenschaft, September 1996, 80-88.

2 Chapter 4

page 226, minimal Turing machine New smallest universal Turing machine with two tape symbols has 22 states — personal information due to Yu. Rogozin.

3 Chapter 5

page 304, line +5 To the sequence of inclusions include: $\mathbf{NL} \subsetneq \mathbf{SPACE}$.