Errata for
S. Deorowicz, Universal lossless data compression algorithms

Jul 8, 2003

**Location:** page 37, row 6.

**Is:** Knowing that this is the $j$th occurrence of symbol c in the first column of the matrix $\widetilde{M}(x)$ we find its $j$th occurrence in the last column.

**Should be:** Knowing that this is the $j$th occurrence of symbol c in the last column of the matrix $\widetilde{M}(x)$ we find its $j$th occurrence in the first column.

Jul 8, 2003

**Location:** page 93, Table 4.1; page 99, Table 4.5; page 103, Table 4.7; page 104, Table 4.8; page 111, Table 4.11; page 112, Table 4.12; page 113, Table 4.13; page 114, Table 4.14.

**Is:** progp       43,379

**Should be:** progp       49,379

Jul 8, 2003

**Location:** page 169, row 31.

**Is:** (lest than 8)

**Should be:** (less than 8)

Jul 8, 2003

**Location:** page 61, footnote.

**Is:** http://www-zo.iinf.polsl.gliwice.pl/˜sdeor/deo03.html.

**Should be:** http://www-zo.iinf.polsl.gliwice.pl/˜sdeor/pub/deo03abs.htm.

Jul 16, 2003

**Location:** page 68, row 11.

**Is:** The recursive Equations 4.19 and 4.20 contain a sum over the divisors of $n$. To the best of our knowledge, the sum $G(n)$ defies reduction and we do not present its compact form also.

**Should be:** The recursive Equations 4.19 and 4.20 contain a sum over the divisors of $n$. The equations can be reduced to the compact form using the Möbius Inversion Formula:

$$U(n) = \sum_{i|n} \mu\left(\frac{n}{i}\right) k^i,$$

and

$$G(n) = \frac{1}{n} \sum_{i|n} \phi\left(\frac{n}{i}\right) k^i.$$