CORRECTIONS TO: “VERSUM SEQUENCES IN THE BINARY SYSTEM”

Charles W. Trigg
EXAMPLE 3. Let $H$ be generated by $\mu_n = n(n - 1/2)/(n + 1)(n + 2)$. We can regard $H$ as the product of two Hausdorff matrices $H_a$ and $H_\beta$, with generating sequences $\alpha_n = (n - 1/2)/(n + 1)$ and $\beta_n = n/(n + 2)$, respectively. From Theorem 1 of [1], the sequence $t = \{t_n\}$, with $t_0 = 1$, $t_n = (-1)^n(1/2)(-3/2) \cdots (-n + 3/2)/n!$, $n > 0$ satisfies $tH_a = 0$. Therefore $tH = 0$. Let $B$ be the matrix with the sequence $t$ as each row. Then

$$(HB)_{nk} = \sum_{j=0}^{n} h_{nj}b_{jk} = t_k \sum_{j=0}^{n} h_{nj} = t_k t_0 = 0,$$

and

$$(BH)_{nk} = \sum_{j=k}^{\infty} b_{nj}h_{jk} = \sum_{j=k}^{\infty} t_j h_{jk} = 0,$$

so that $B \mathbin{\rightarrow} H$.

REFERENCES


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Corrections to

VERSUM SEQUENCES IN THE BINARY SYSTEM

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Line 12 should read “the universal verity of the conjecture [5, 6]”. Instead of the universal verity of the conjecture [1, 2].

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