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ERRATA:

**A MATRIX WITH AN APPLICATION TO THE
MOTION OF AN ABSORBING MARKOV CHAIN I**

MOHAMED A. EL-SHEHAWAY — A. M. TRABYA

(Math. Slovaca, **46** (1996), No. 1, 101–110)

p. 104, line 1:

$$u = \left(1 - (\sqrt{p} \pm \sqrt{q})^2\right)^{-1}$$

p. 104, line 7:

$$\Delta_m(u, z | j) = (\lambda_1 - \lambda_2)^{-2} \left\{ (1 - zr)A_{j,m-j+1} - pquz[A_{j,m-j} + A_{j-1,m-j+1}] \right\}, \quad (6)$$

p. 106, line 3:

$$B = \left\{ j(N - j) - z[j(N - j) - pN] \right\}^{-1}$$

p. 106, line 13:

$$\text{pr}(v^k(j|i) = n_j) = d_{j,N-j}^{-1} \begin{cases} \vdots \\ C[1 - p^{N-i}d_{i-j,j}d_{j,N-j}^{-1}] & \text{if } n_j = 1, 2, \dots, j \leq i \end{cases} \quad (14)$$

p. 106, line 15:

$$C = d_{1,N}(1 - d_{j,N-j}^{-1}d_{1,N})^{n_j-1}$$

p. 106, line 20:

$$\omega = \frac{pN}{j(N-j)} \left(1 - \frac{pN}{j(N-j)}\right)^{n_j-1}$$

p. 107, line 26:

$$\text{Var}[v^k(j|i)] = \frac{1}{(p-q)^2(1-a^N)^2} \cdot \begin{cases} (1-a^i)(1-a^{N-j}) \cdot \\ \cdot [(1-2a^j+a^i)(1-a^{N-j}) - (1-a^N)(p-q)] & \text{if } j \geq i, \quad (20) \\ a^{i-j}(1-a^j)(1-a^{N-i}) \cdot \\ \cdot [(1-a^j)((1-a^{N-j}) + (1-a^{i-j})) - (p-q)(1-a^N)] & \text{if } j \leq i \end{cases}$$

for $p \neq q$, $a = q/p$ and $p + q + r = 1$

p. 108, line 2:

$$\text{Var}[v^k(j|i)] = \frac{1}{(pN)^2} \begin{cases} i(N-j)[(N-j)(2j-i) - pN] & \text{if } j \geq i, \\ j(N-i)[j(N+i-2j) - pN] & \text{if } j \leq i \end{cases} \quad (21)$$

for $p = q$, $2p + r = 1$

p. 109, line 19:

$$E[v^0(j|i)] = \frac{1}{p-q} \begin{cases} \vdots \\ (b^j - 1) & \text{if } j \leq i, \quad p < q \end{cases} \quad (28)$$

p. 109, line 25:

$$\begin{aligned} & \text{Var}[v^0(j|i)] = \\ & = \frac{1}{(p-q)^2} \begin{cases} \vdots \\ (1-a^j)[(2-a^{(i-j)})(1-a^j) - p+q]a^{i-j} & \text{if } j \leq i, \quad p > q, \\ \vdots \end{cases} \end{aligned} \quad (30)$$

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