ERRATA

Erratum to: “On One Method for Constructing a Family of Approximations of Zeta Constants by Rational Fractions” [*Problems of Information Transmission* 51, 378 (2015)]

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1. The formula for I_s on pp. 383–384 must read as follows:

$$\begin{aligned}
 I_s = & a_0 b_0 \zeta(s) + \sum_{r=1}^n \sum_{j=1}^{s-2} \frac{(-1)^{j-1} (a_0 b_r + b_0 a_r)}{r^j} \zeta(s-j) \\
 & + \sum_{r=1}^n \sum_{k=0}^{\infty} \frac{(-1)^{s-2} (a_0 b_r + b_0 a_r)}{r^{s-1}} \left(\frac{1}{k+1} - \frac{1}{r+k+1} \right) \\
 & + \sum_{r=1}^n \sum_{j=1}^{s-3} \frac{(-1)^{j-1} j a_r b_r}{r^{j+1}} \zeta(s-1-j) + \sum_{k=0}^{\infty} \sum_{r=1}^n \frac{(-1)^{s-2} a_r b_r}{r^{s-2} (r+k+1)^2} \\
 & + \sum_{r=1}^n \sum_{k=0}^{\infty} \frac{(-1)^{s-3} (s-2) a_r b_r}{r^{s-1}} \left(\frac{1}{k+1} - \frac{1}{r+k+1} \right) \\
 & + \sum_{\substack{r_1, r_2=1 \\ r_1 \neq r_2}}^n \sum_{j=1}^{s-3} \frac{(-1)^{j-1} a_{r_1} b_{r_2}}{r_2 - r_1} \left(\frac{1}{r_1^j} - \frac{1}{r_2^j} \right) \zeta(s-1-j) \\
 & + \sum_{\substack{r_1, r_2=1 \\ r_1 \neq r_2}}^n \frac{(-1)^{s-3} a_{r_1} b_{r_2}}{r_2 - r_1} \frac{1}{r_1^{s-2}} \sum_{k=0}^{\infty} \left(\frac{1}{k+1} - \frac{1}{r_1+k+1} \right) \\
 & + \sum_{\substack{r_1, r_2=1 \\ r_1 \neq r_2}}^n \frac{(-1)^{s-2} a_{r_1} b_{r_2}}{r_2 - r_1} \frac{1}{r_2^{s-2}} \sum_{k=0}^{\infty} \left(\frac{1}{k+1} - \frac{1}{r_2+k+1} \right).
 \end{aligned}$$

2. Equation (13) must read as follows:

$$\begin{aligned}
 I_s = & a_0 b_0 \zeta(s) + \sum_{r=1}^n \sum_{j=1}^{s-2} \frac{(-1)^{j-1} (a_0 b_r + b_0 a_r)}{r^j} \zeta(s-j) \\
 & + \sum_{r=1}^n \sum_{j=1}^{s-3} \frac{(-1)^{j-1} j a_r b_r}{r^{j+1}} \zeta(s-1-j) + \sum_{r=1}^n \frac{(-1)^{s-2} a_r b_r}{r^{s-2}} \left(\zeta(2) - \sum_{m=1}^r \frac{1}{m^2} \right)
 \end{aligned}$$

$$\begin{aligned}
& + \sum_{\substack{r_1, r_2=1 \\ r_1 \neq r_2}}^n \sum_{j=1}^{s-3} \frac{(-1)^{j-1} a_{r_1} b_{r_2}}{r_2 - r_1} \left(\frac{1}{r_1^j} - \frac{1}{r_2^j} \right) \zeta(s-1-j) \\
& + \sum_{r=1}^n \frac{(-1)^{s-2} (a_0 b_r + b_0 a_r - (s-2) a_r b_r)}{r^{s-1}} \sum_{m=1}^r \frac{1}{m} \\
& + \sum_{\substack{r_1, r_2=1 \\ r_1 \neq r_2}}^n \frac{(-1)^{s-2} a_{r_1} b_{r_2}}{r_2 - r_1} \left(\frac{1}{r_2^{s-2}} \sum_{m=1}^{r_2} \frac{1}{m} - \frac{1}{r_1^{s-2}} \sum_{m=1}^{r_1} \frac{1}{m} \right).
\end{aligned}$$

3. Equation (19) must read as follows:

$$\begin{aligned}
I_s &= a_0 b_0 \zeta(s) + \sum_{j=1}^{s-3} (-1)^{j-1} \zeta(s-j) \left(\sum_{r=1}^n \frac{a_0 b_r + b_0 a_r - (j-1) a_r b_r}{r^j} \right. \\
& + \sum_{\substack{r_1, r_2=1 \\ r_1 \neq r_2}}^n \frac{a_{r_1} b_{r_2}}{r_2 - r_1} \left(\frac{1}{r_2^{j-1}} - \frac{1}{r_1^{j-1}} \right) \Bigg) + (-1)^{s-2} \zeta(2) \\
& \times \left(\sum_{r=1}^n \frac{(s-2) a_r b_r - a_0 b_r - b_0 a_r}{r^{s-2}} - \sum_{\substack{r_1, r_2=1 \\ r_1 \neq r_2}}^n \frac{a_{r_1} b_{r_2}}{r_2 - r_1} \left(\frac{1}{r_2^{s-3}} - \frac{1}{r_1^{s-3}} \right) \right) \\
& + (-1)^{s-2} \left(\sum_{r=1}^n \frac{a_0 b_r + b_0 a_r - (s-2) a_r b_r}{r^{s-1}} \sum_{m=1}^r \frac{1}{m} - \sum_{r=1}^n \frac{a_r b_r}{r^{s-2}} \sum_{m=1}^r \frac{1}{m^2} \right. \\
& + \sum_{\substack{r_1, r_2=1 \\ r_1 \neq r_2}}^n \frac{a_{r_1} b_{r_2}}{r_2 - r_1} \left(\frac{1}{r_2^{s-2}} \sum_{m=1}^{r_2} \frac{1}{m} - \frac{1}{r_1^{s-2}} \sum_{m=1}^{r_1} \frac{1}{m} \right) \Bigg), \quad s \geq 4.
\end{aligned}$$

4. The last formula of the paper must read as follows:

$$\begin{aligned}
\zeta(s) &= \sum_{j=1}^{s-3} (-1)^{j-1} \zeta(s-j) \left(\sum_{r=1}^n \frac{(j-1) a_r b_r - a_r - b_r}{r^j} \right. \\
& - \sum_{\substack{r_1, r_2=1 \\ r_1 \neq r_2}}^n \frac{a_{r_1} b_{r_2}}{r_2 - r_1} \left(\frac{1}{r_2^{j-1}} - \frac{1}{r_1^{j-1}} \right) \Bigg) - (-1)^{s-2} \zeta(2) \left(\sum_{r=1}^n \frac{(s-2) a_r b_r - a_r - b_r}{r^{s-2}} \right. \\
& - \sum_{\substack{r_1, r_2=1 \\ r_1 \neq r_2}}^n \frac{a_{r_1} b_{r_2}}{r_2 - r_1} \left(\frac{1}{r_2^{s-3}} - \frac{1}{r_1^{s-3}} \right) \Bigg) + (-1)^{s-2} \left(\sum_{r=1}^n \frac{(s-2) a_r b_r - a_r - b_r}{r^{s-1}} S_1(r) \right. \\
& + \sum_{r=1}^n \frac{a_r b_r}{r^{s-2}} S_2(r) - \sum_{\substack{r_1, r_2=1 \\ r_1 \neq r_2}}^n \frac{a_{r_1} b_{r_2}}{r_2 - r_1} \left(\frac{S_1(r_2)}{r_2^{s-2}} - \frac{S_1(r_1)}{r_1^{s-2}} \right) \Bigg) + \theta 2^{-2n}.
\end{aligned}$$

The author apologizes for the omissions.