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https://doi.org/10.5109/12604
CORRECTION: “∪” TYPE FUNCTIONS

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Reprinted from the Bulletin of Informatics and Cybernetics
Research Association of Statistical Sciences, Vol. 38

FUKUOKA, JAPAN
2006
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In the section 3 of Rao (2003), there is a minor correction required for the equation (10) and one equation prior to that. Readers are requested to note the same as below.

When we substitute $x = nu^{2n-2}$ in the equation (9) then

\[
\begin{align*}
x \to 1 & \Rightarrow u \to m^{2-2n} \\
x \to nu^{2n-2} - 1 & \Rightarrow u \to (n - m)^{2-2n}
\end{align*}
\]

and area of $∪$ was given as

\[
G = g(1) \frac{u}{v} - m \left( \frac{m}{n - m} \right)^{(2-2n)^2}.
\]

Please note that the correct expression for above area is

\[
G = g(1) \frac{u}{v} - m \left[ (n - m)^{-(2-2n)^2} - m^{-(2-2n)^2} \right].
\]

Similarly corrected expression for volume of $∪$ type vessel is

\[
V = \frac{\pi (nu^{2n-2} - 2)}{4} G.
\]

References


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