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The exponentiated type distributions. (English) Zbl 1128.62015
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Summary: *R. C. Gupta* et al. [*Commun. Stat., Theory Methods* 27, No. 4, 887–904 (1998; [Zbl 0900.62534](#))] introduced the exponentiated exponential distribution as a generalization of the standard exponential distribution. We introduce four more exponentiated type distributions that generalize the standard gamma, standard Weibull, standard Gumbel and the standard Fréchet distributions in the same way the exponentiated exponential distribution generalizes the standard exponential distribution. A treatment of the mathematical properties is provided for each distribution.

MSC:

[62E10](#) Characterization and structure theory of statistical distributions
[62E15](#) Exact distribution theory in statistics
[33C90](#) Applications of hypergeometric functions

Cited in **2** Reviews
Cited in **76** Documents

Full Text: [DOI](#)

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