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Part I

Financial Risk Measures

Chapter 1

Expected Shortfall

1.1 Other Closely Related Risk Measures

Other closely related risk measures are:

- expected tail loss
- tail conditional expectation (TCE)
- tail VAR
- conditional VAR
- tail conditional VAR
- worst conditional expectation
- and expected shortfall

1.2 Expected Shortfall

For more on ES and its precursors, see Artzner et. al. (1999, p. 223-224), Acerbi (2004). The ES is the average of the worst $100(1 - \alpha)\%$ of losses:

$$ES = \frac{1}{1 - \alpha} \int_{\alpha}^1 q_p dp \quad (1.1)$$