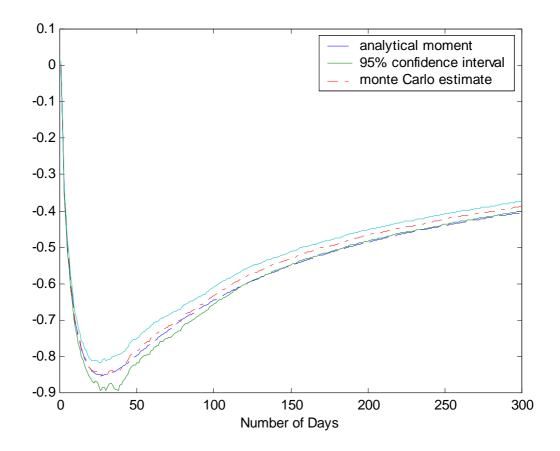
1 Erratum

The followings are the corrections to "An analytical approximation for the GARCH option pricing model", J.C. Duan, G. Gauthier and J.G. Simonato, *Journal of Computational Finance* 2 (1999), 75–116.

- On page 78, in equations (8) and (10), S_0 should be replaced with $S_0 \exp(\delta \sigma_{\rho_T})$.
- On page 78, equation (9) should be replaced with

$$A_3 = \frac{1}{3!} S_0 \exp(\delta \sigma_{\rho_T}) \sigma_{\rho_T} \left[\left(2 \sigma_{\rho_T} - \widetilde{d} \right) n(\widetilde{d}) + \sigma_{\rho_T}^2 N(\widetilde{d}) \right].$$

- On page 81, the line of the text that reads "except terms 8, 11, and 12 of S_{Q4} " should be replaced with "except terms 8 and 12 of S_{Q4} ".
- On page 89, FIGURE 3 should be replaced with the following graph:



• On page 101, the integral in the second term term for C_{approx} should be replaced with:

$$\int_{-\infty}^{K^*} \left[S_0 \exp(\mu_{\rho_T} - \sigma_{\rho_T} z) - K \right] \left(z^3 - 3z \right) n(z) dz.$$

• On page 102, the last term of the equation in Lemma 3 should be replaced with

$$\left(1 - \frac{3p}{4} + \frac{p^2}{8}\right) \left(E_0^Q \left[h_{s+t}\right]\right)^{\frac{p}{2}} E_0^Q \left[X_{s-1}\epsilon_s^r\right].$$

• On page 111, the last term of the expression for $E_0^Q\left[h_i^p\epsilon_i^qh_{i+j}^r\epsilon_{i+j}^sh_{i+j+k}^{\frac{n}{2}}\right]$ in subsection C.1.8 should be replaced with

$$\left(1 - \frac{3n}{4} + \frac{n^2}{8}\right) \left(E_0^Q \left[h_{i+j+k}\right]\right)^{\frac{n}{2}} E_0^Q \left[h_i^p \epsilon_i^q h_{i+j}^r \epsilon_{i+j}^s\right].$$

• On page 111, the last term of the expression for $E_0^Q\left[h_i^p\epsilon_i^qh_{i+j}^{\frac{n}{2}}\right]$ in subsection C.1.8 should be replaced with

$$\left(1 - \frac{3n}{4} + \frac{n^2}{8}\right) \left(E_0^Q [h_{i+j}]\right)^{\frac{n}{2}} E_0^Q [h_i^p \epsilon_i^q].$$

- On page 112, the numerical value for ζ_1 should be replaced by 1.025.
- On page 112, the numerical value for v_3 should be replaced by -0.33619.
- On page 112, the line of the text that reads "and Appendix C.1.6" should be replaced with "and Appendix C.1.5".
- On page 113, the line of the text that reads "Indeed, from Appendix C.1.6 with $p = \frac{3}{2}$ " should be replaced with "Indeed, from Appendix C.1.5 with $p = \frac{1}{2}$ ".
- On page 114, σ_{ρ_T} in subsection D.3.3 should be replaced with $\sigma_{\rho_T}^2$.
- On page 114, the value for κ_3 in subsection D.3.3 should be replaced with -2.6579×10^{-1} .
- On page 114, the value for κ_4 in subsection D.3.3 should be replaced with 3.40179×10^0 .
- On page 114, the expression for A_3 should be replaced with

$$A_3 = \frac{1}{3!} S_0 \exp(\delta \sigma_{\rho_T}) \sigma_{\rho_T} \left[\left(2\sigma_{\rho_T} - \tilde{d} \right) n(\tilde{d}) + \sigma_{\rho_T}^2 N(\tilde{d}) \right].$$

- On page 114, in the expressions for A_4 and C, the variable S_0 should be replaced with $S_0 \exp(\delta \sigma_{\rho_T})$.
- On page 114, the values for A_3 , C and C_{approx} should be replaced by -4.7308×10^{-3} , 0.93229 and 0.91986, respectively.
- On page 115, the expression containing the values for computing $\hat{g}(z)$ should be replaced by

$$\frac{1}{\sqrt{2\pi}} \exp\left(-\frac{z^2}{2}\right) \left(\begin{array}{c} 0.9498 - 0.0502 \ z - 0.1004 \ z^2 \\ +4.4298 \times 10^{-2} \ z^3 + 1.6741 \times 10^{-2} \ z^4 \end{array}\right).$$

The above corrections are mainly due to typesetting errors and they have negligible impacts on the values reported in the tables of the article. These tables are not updated so as to conserve space.