

1015-60-174

Giray Okten* (okten@math.fsu.edu), Department of Mathematics, Florida State University, Tallahassee, FL 32306. *High dimensional simulation in derivative pricing.*

The quasi-Monte Carlo method is widely used in pricing derivatives, and it provides more accurate estimates than the Monte Carlo method in, especially, low dimensions. We will discuss how a hybrid approach, where we combine pseudorandom numbers (used in Monte Carlo) with low-discrepancy sequences (used in quasi-Monte Carlo), might give better results than either method, in high-dimensional problems. (Received February 03, 2006)