

**Proceedings**  
**2011 World Congress on**  
**Engineering and Technology**

**Oct. 28-Nov.2, 2011, Shanghai, China**



# Proceedings

## 2011 World Congress on Engineering and Technology

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# 2011 World Congress on Engineering and Technology (CET 2011)

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# Welcome

On behalf of the Organizing Committee of 2011 World Congress on Engineering and Technology (CET 2011), it is my great pleasure to present this proceedings of the conference held in Shanghai, China, Oct. 28th to Nov.2nd, 2011. I would like to take this opportunity to thank all the authors and participants for their support to our conference.

With the development of technology, a great variety of research results are emerging. Following the rapid development trend, CET 2011 serves as a forum for the academic professionals and researchers to exchange the most updated information and achievements in those exciting research areas.

I would like to express our gratitude to our sponsors: IEEE Beijing Section, IEEE Wuhan Section, Tongji University, Wuhan University, and Engineering Information Institute. At the same time, we appreciate the contributions from our paper reviewers and the committee members. Your efforts make the conference a success.

Thanks again for your attention and support to our conference.

We are looking forward to seeing you again next year.

Dr. Victor Jin

CET 2011 General Chair

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# Modelling Indonesian Stock Indices Using Variance Gamma

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**Abstract**— In this paper we discuss a class of Levy process which is called variance gamma (VG) to model the dynamics of Indonesian Stock Indices. There are some stock indices listed in Indonesia Stock Exchange (ISE), but in this paper we choose two of them, Jakarta Composite Index (JCI) and Jakarta Islamic Index (JII). JCI compose of all stocks traded in ISE and an important indicator for the stock price dynamics in the ISE. JII, on the other hand only consist of 30 stocks based on syariah in order to develop the syariah stock market in Indonesia. It is well known that the dynamics of stock indices can be modelled using stochastic models such as a well known Geometric Brownian Motion (GBM). In this paper we will use VG model to describe the dynamics of those two indices and compare the performance of the model with a GBM model. We found that the VG model gives a better performance than GBM model based on some criteria in modelling the dynamics of the JCI and JII Index.

**Keywords**— Indonesian Stock Indices; JCI; JII; variance gamma; stochastic differential equation

## I. INTRODUCTION

Stock has become one of the most popular financial market instruments, because of its high return although the risk is also high. Stocks can be used by the company to get public fund and also on average, give higher return compared to saving or deposit accounts. Stock prices fluctuate from time to time and are affected by many factors such as the fundamental aspects of the company, that are controllable and some extern factors that are uncontrollable.

As one of emerging markets in the world, prices of financial instruments in ISE are largely affected by global and local political and economic situation. As a result, the volatility of the financial instrument prices (such as stocks) becomes higher compared to the volatility in the developed markets, such as Japan, US or some European countries, because a lot of influences from inside and outside Indonesia that affect the Indonesia market. In the world of uncertainty as reflected by the volatility, triggers the need of financial instruments that can be used to hedge against the market risk. Option has become a popular choice as one of hedging strategies. Many kind of options, including exotic options

have been traded, by exchange option or as OTC (*over-the-counter*) option.

Stock indices behave as an indicator for stock price dynamics. There are some stock indices listed in ISE. JCI, launched on April 1, 1983, is an indicator for the stock price dynamics in ISE. JII, on the other hand, is a new stock index, launched in July 3, 2000. JII consists of 30 stocks based on Sharia (Islamic law) and considering the capitalization and liquidity. According to Buku Panduan Indeks Harga Saham Bursa Efek Indonesia (*Stock Indices Guide Book Indonesia Stock Exchange*) [1], stocks that are included in the calculation of JII index are evaluated every six months, in January and July.

In Indonesia, research in modeling stock indices especially using stochastic differential equations is quite rare, although this is an interesting challenge as Indonesia is one of five emerging markets in the world. The market in Indonesia is growing and will keep growing, therefore in this case, more research to develop good models and methods in stock indices modeling are needed. A good model and method for describing the dynamics of stock indices abroad such as *S&P500* index is not guaranteed to be a good one if applied to Indonesian stock indices because of characteristic differences among stock markets in every country. Some research regarding stock indices have been conducted such as *S&P500 index*, or option on stock ([2], [3], and [4]). The contribution of this paper is to model the dynamics of JCI and JII indices using VG model and compare the performance to the GBM model. Indeed, the VG model outperforms the GBM and therefore it is a good model to describe the dynamics of JCI and JII indices.

## II. STOCHASTIC PROCESSES

### A. GBM Process

The Geometric Brownian Motion (GBM) model was first used to model the stock price. Black and Scholes [5] introduced the Black-Scholes model for option price valuation by assuming that the stock price follows a GBM and from there the GBM becomes popular and widely used for asset price model. Black [6] used the GBM to model the futures commodity price dynamic. The asset price process following

the GBM can be represented by the following stochastic differential equation (SDE):

$$\frac{dS(t)}{S(t)} = \mu dt + \sigma dW(t) \quad (1)$$

where  $S(t)$ : the asset price, e.g., the spot price of commodity, at time  $t$ ,  $\mu$ : the expected return of asset,  $\sigma$ : the volatility and  $dW(t)$ : the increment of Wiener process. By setting  $G(S(t), t) = \log(S(t))$  and applying the Ito's Lemma, the process of  $S(t)$  will follow the SDE

$$d(\log(S(t))) = \left(\mu - \frac{1}{2}\sigma^2\right) dt + \sigma dW(t) \quad (2)$$

Equation (2) implies that the log return,  $\log\left(\frac{S(t+dt)}{S(t)}\right)$ , is normally distributed with:

$$\text{Mean } E\left[\log\left(\frac{S(t+dt)}{S(t)}\right)\right] = \left(\mu - \frac{1}{2}\sigma^2\right)dt$$

$$\text{Variance } \text{Var}\left[\log\left(\frac{S(t+dt)}{S(t)}\right)\right] = \sigma^2 dt.$$

### B. VG Process

We define the VG process with three parameters as introduced by Madan et. al [7]. Two parameters of the VG process proposed in [7] and [8] can control the volatility and kurtosis. By generalizing that VG model, we can add the third parameter to control skewness.

Consider a Brownian motion with drift and volatility represented by following stochastic process:

$$b(t; \theta, \sigma) = \theta t + \sigma W(t)$$

where  $W(t)$  is a standard Brownian motion.

The VG process is obtained by evaluating Brownian motion at a random time change given by a gamma process. By using subordinate of Brownian motion process, we define the VG process in terms of Brownian motion  $b(t; \theta, \sigma)$  and gamma process  $G(t; 1, \nu)$  as follows.

$$X(t; \sigma, \nu, \theta) = b((t; 1, \nu); \theta, \sigma)$$

The VG process has three parameters that control the volatility, kurtosis and skewness.

$\sigma$ : volatility of Brownian motion which controls volatility  
 $\nu$ : variance rate of the gamma time change which controls kurtosis  
 $\theta$ : the drift in Brownian motion which control skewness.

Under the risk-neutral process, the asset price dynamics following the VG process is given by:

$$S(t) = S(0)\exp(rt + X(t; \sigma, \nu, \theta) + \omega t)$$

where  $\omega = \frac{1}{\nu} \ln(1 - \theta\nu - 0.5\sigma^2\nu)$

Then the asset's log return can be modeled as follow:

$$R(t) = \log S(t) - \log S(0) = rt + X(t; \sigma, \nu, \theta) + \omega t = ct + X(t; \sigma, \nu, \theta). \quad (3)$$

where  $c = r + \omega$ ,  $r$  is the risk-free interest rate and  $\sigma$  is volatility.

### III. MODELLING THE DYNAMICS OF JCI AND JII

We employ daily observations of JCI and JII from January 2000 to December 2010. Dynamics of log JCI and JII is shown in Figure 1. We model the indices' dynamics by GBM given by (2) and VG process given by (3).

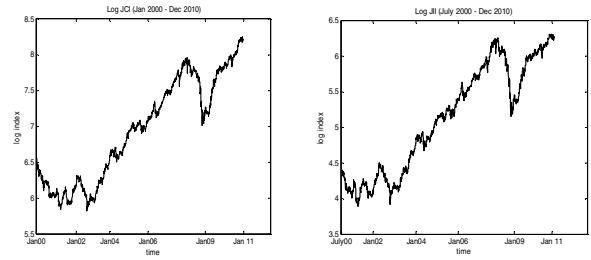


Figure 1. Dynamic of log JCI (left) and JII (right)

GBM model assumes that the log return of asset price is normally distributed. However, such assumption is violated by Indonesia indices (JCI and JII) as shown by descriptive statistics and histogram of indices' log return vs. normal density given by Table 1 and Figure 2 below. Descriptive statistics and histogram of log return of indices show that distribution of log return has positive kurtosis and non-zero skewness. It means GBM is not an appropriate model for describing the dynamics of those indices.

TABLE 1. DESCRIPTIVE STATISTICS OF INDICES LOG RETURN

index	mean	standard deviation	skewness	kurtosis
JCI	0.0006	0.0153	-0.6368	8.7003
JII	0.0007	0.0183	-0.4906	9.0519

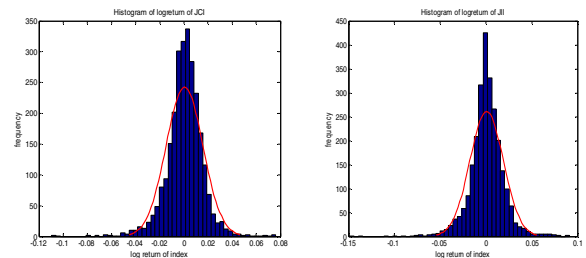


Figure 2. Histogram of JCI (left) and JII (right) log return vs. Normal density

For modelling the dynamics of JCI and JII indices using variance gamma model, we employ density of VG as given in [9]. Model's parameter is then estimated by matching the first four moments of log returns to the first four moments of VG process as described in [10]. The parameter estimates of the VG process and GBM are given in Table 2. We shall note that both GBM and VG models given the same volatility parameter estimates (0.0183 and 0.0153 per day for JCI and JII, respectively).

TABLE 2. PARAMETER ESTIMATES OF VG PROCESS AND GBM

Index	VG Process			
	$c$	$v$	$\theta$	$\sigma$
JCI	0.0023	1.9001	-0.0017	0.0183
JII	0.0022	2.0173	-0.0015	0.0183

Index	GBM	
	$\mu$	$\sigma$
JCI	0.0007	0.0153
JII	0.0009	0.0183

We also compare the performance of the VG model and GBM model by generating 100 paths using Monte Carlo simulation and compare the descriptive statistics of the original data and the simulated paths based on those two models for JCI and JII indices along with the maximum likelihood value (MLV). For simulation gamma process we can refer to [11]. The results are tabulated in Table 3 below. The empirical density, the normal density and the VG density for both indices are given in Figure 3.

From Table 3 and Figure 3 it is clear that both VG and GBM model can match the mean and standard deviation of the original log return data (OG), however the GBM model could not match the skewness and kurtosis better than the VG model. Therefore the VG model outperforms the GBM in matching the skewness and kurtosis. Maximum likelihood values also indicate that the VG model is better than the GBM model.

IV. CONCLUSIONS AND FURTHER RESEARCH

Based on our analysis in modeling the Indonesian Stock Indices, i.e., JCI and JII we can conclude that the VG model performs very well compared with the GBM model. The VG model can match the first four moments, including skewness and excess kurtosis. Another advantage in modeling the dynamics of the Indonesian stock indices using VG model is that the VG model gives a closed form solution for valuing index option ([8]). This is one avenue we would like to pursue for further research.

TABLE 3. DESCRIPTIVE STATISTICS OF ORIGINAL DATA AND SIMULATED PATHS

index	path	mean	standard deviation	skewness	kurtosis	MLV
JCI	OG	0.0006	0.0153	-0.6368	8.7003	-----
	VG	0.0006	0.0155	-0.6192	9.0147	7429
	GBM	0.0006	0.0153	0	2.9925	7331
JII	OG	0.0007	0.0183	-0.4906	9.0519	-----
	VG	0.0007	0.0184	-0.491	8.9206	6808
	GBM	0.0007	0.0183	-0.0057	2.9766	6701

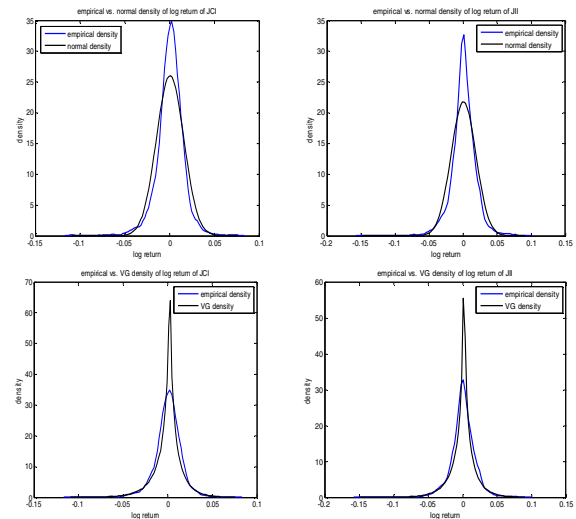


Figure 3. Empirical vs. Normal density (top) and Empirical vs. VG density (below) for JCI (left) and JII (right)

Another direction for further research includes the application of the VG model in VaR calculation. Also, in comparing these two indices dynamics we see an indication that they have strong correlation, but we still do not know and want to investigate further how they are correlated. Some methods such as ARCH or GARCH would be interesting to be performed to answer this question and the dependency between two differences of these indices can be investigated further using model such as copula models.

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