題目	臺指選擇權價格行為之實證研究
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摘要	為了提升對臺指選擇權的評價績效,必須先對其價格行為特性有完整的瞭解。本文發
	現臺指選擇權之標的指數其報酬率分配顯著不服從常態分配,而且標的指數之價格波
	動率遵循 NGARCH 波動過程,然而臺指選擇權與標的指數之間的套利效率(arbitrage
	efficiency)不佳,反而與臺指期貨之間具有較好的套利效率。因此為了完整捕捉臺指選
	擇權的價格行為,在評價臺指選擇權時,本文引用納入報酬率分配高階動差的
	Edgeworth GARCH 型評價法,並以臺指期貨取代股價指數,以提高評價績效。配適結
	果支持以臺指期貨資料搭配 Edgeworth GARCH 型選擇權演算法確實能提高對臺指選
	擇權的評價績效。
關鍵字	指數選擇權、GARCH選擇權演算法、Edgeworth GARCH演算法、NGARCH模型、套
	利效率
Title	An Empirical Study of the Price Behavior of TAIEX Options
Author(s)	Heng-Chih Chou, David Wang, Iris Lee
Abstract	Before pricing the value of Taiwan stock index option (TXO), we have to completely
	understand its price behavior. The study demonstrates that the distribution of TXO's
	underlying index return reject the assumption of Normal distribution and the volatility is
	heteroscadastic. Besides, there are a significant number of violations in no-arbitrage
	conditions when the conditions involve both TXOs and the underlying index. However,
	when the index futures are put into the no-arbitrage condition, violations are obviously
	fewer. Based on the information above, GARCH option pricing algorithm with higher
	moments is applied to capture the behavior of underlying index. In addition, the data of
	index futures are chosen to substitute the underlying index. The study results show that the
	pricing performance of GARCH option pricing algorithms is better than that of Black-Scholes significantly; and the GARCH option pricing algorithm with index futures is
	the best among the three. However, the price differences are still significant, and the
	explanatory factors include the maturity of options and also the intraday volatility of
	underlying asset.
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Key Words	Index option, GARCH option, Edgeworth GARCH option pricing algorithm, NGARCH,