

 Free Accepted Article From Repository

 Look Up Full Text


Full Text from Publisher

 Export...

Add to Marked List




Predictive power of implied volatility of structured call warrants: Evidence from Singapore

By: [Samsudin, NIM](#) (Samsudin, Najmi Ismail Murad)^[1]; [Mohamad, A](#) (Mohamad, Azhar)^[1]; [Sifat, IM](#) (Sifat, Imtiaz Mohammad)^[2]; [Hamid, Z](#) (Hamid, Zarinah)^[1]
[View Web of Science ResearcherID and ORCID](#)

INTERNATIONAL JOURNAL OF FINANCE & ECONOMICS
DOI: 10.1002/ijfe.2379
 Early Access: DEC 2020
Document Type: Article; Early Access
[View Journal Impact](#)

Abstract
This paper examines the information content of implied volatility of structured call warrants in the Singapore Stock Exchange. The study is among the first to examine the implied volatility of equity options (structured call warrants) outside the United States. Using a daily dataset for 252 trading days between August 1, 2014 and July 31, 2015, we test whether implied volatility is an unbiased estimate of realized volatility (RV). In other words, we ask whether implied volatility contains information on future RV, and scrutinize the efficiency of implied volatility and its predictive power compared to historical volatility (HV). Our findings suggest that although implied volatility does contain some relevant information about future volatility, it remains a biased forecast of RV. The efficiency of implied volatility is trivial, and its predictive power is not superior to HV.

Keywords
Author Keywords: equity options; implied volatility; Singapore; structured call warrants
KeyWords Plus: STOCK-MARKET VOLATILITY; INFORMATION-CONTENT; INDEX

Author Information
Reprint Address:
International Islamic University Malaysia Int Islamic Univ Malaysia, Kulliyyah Econ & Management Sci, Dept Finance, Jalan Gombak, Kuala Lumpur 53100, Malaysia.
Corresponding Address: Mohamad, A (corresponding author)
 Int Islamic Univ Malaysia, Kulliyyah Econ & Management Sci, Dept Finance, Jalan Gombak, Kuala Lumpur 53100, Malaysia.
Addresses:
 [1] Int Islamic Univ Malaysia, Kulliyyah Econ & Management Sci, Jalan Gombak, Kuala Lumpur, Malaysia
 [2] Monash Univ Malaysia, Sch Business, Dept Accounting & Finance, Jalan Lagoon Selatan, Bandar Sunway, Selangor, Malaysia
E-mail Addresses: m.azhar@iium.edu.my

Publisher
WILEY, 111 RIVER ST, HOBOKEN 07030-5774, NJ USA

Journal Information
Impact Factor: [Journal Citation Reports](#)

Categories / Classification
Research Areas: Business & Economics
Web of Science Categories: Business, Finance

[See more data fields](#)

Citation Network

In Web of Science Core Collection

0
Times Cited

 [Create Citation Alert](#)

23
Cited References

[View Related Records](#)

Use in Web of Science

Web of Science Usage Count

3	3
Last 180 Days	Since 2013

[Learn more](#)

This record is from:
Web of Science Core Collection
- Social Sciences Citation Index

[Suggest a correction](#)

If you would like to improve the quality of the data in this record, please [suggest a correction](#).

Cited References: 23

Showing 23 of 23 [View All in Cited References page](#)

(from Web of Science Core Collection)

1.	PRICING OF OPTIONS AND CORPORATE LIABILITIES By: BLACK, F; SCHOLÉS, M JOURNAL OF POLITICAL ECONOMY Volume: 81 Issue: 3 Pages: 637-654 Published: 1973	Times Cited: 10,602
2.	THE INFORMATIONAL CONTENT OF IMPLIED VOLATILITY By: CANINA, L; FIGLEWSKI, S REVIEW OF FINANCIAL STUDIES Volume: 6 Issue: 3 Pages: 659-681 Published: 1993	Times Cited: 261
3.	The information content of option-implied volatility for credit default swap valuation By: Cao, Charles; Yu, Fan; Zhong, Zhaodong JOURNAL OF FINANCIAL MARKETS Volume: 13 Issue: 3 Pages: 321-343 Published: AUG 2010	Times Cited: 89
4.	WHO KNOWS MORE ABOUT FUTURE CURRENCY VOLATILITY? By: Charoenwong, Charlie; Jenwittayaroje, Nattawut; Low, Bueen Sin JOURNAL OF FUTURES MARKETS Volume: 29 Issue: 3 Pages: 270-295 Published: MAR 2009	Times Cited: 11
5.	The Information Content of Model-Free Implied Volatility By: Cheng, Xin; Fung, Joseph K. W. JOURNAL OF FUTURES MARKETS Volume: 32 Issue: 8 Pages: 792-806 Published: AUG 2012	Times Cited: 8
6.	INFORMATION-CONTENT OF OPTION PRICES AND A TEST OF MARKET EFFICIENCY By: CHIRAS, DP; MANASTER, S JOURNAL OF FINANCIAL ECONOMICS Volume: 6 Issue: 2-3 Pages: 213-234 Published: 1978	Times Cited: 177
7.	New evidence on the implied-realized volatility relation By: Christensen, B. J.; Hansen, C. S. The European Journal of Finance Volume: 8 Issue: 2 Pages: 187-205 Published: 2002 URL: http://dx.doi.org.ezaccess.library.uitm.edu.my/10.1080/13518470110071209	Times Cited: 26
8.	The relation between implied and realized volatility By: Christensen, BJ; Prabhala, NR JOURNAL OF FINANCIAL ECONOMICS Volume: 50 Issue: 2 Pages: 125-150 Published: NOV 1998	Times Cited: 395
9.	STOCK-MARKET VOLATILITY AND THE INFORMATION-CONTENT OF STOCK INDEX OPTIONS By: DAY, TE; LEWIS, CM JOURNAL OF ECONOMETRICS Volume: 52 Issue: 1-2 Pages: 267-287 Published: APR-MAY 1992	Times Cited: 238
10.	Title: [not available] By: Hull, J. C. Options, futures, and other derivatives Published: 2009 Publisher: Pearson, USA	Times Cited: 261
11.	The model-free implied volatility and its information content By: Jiang, GJ; Tian, YS REVIEW OF FINANCIAL STUDIES Volume: 18 Issue: 4 Pages: 1305-1342 Published: WIN 2005	Times Cited: 368
12.	PREDICTING VOLATILITY IN THE FOREIGN-EXCHANGE MARKET By: JORION, P JOURNAL OF FINANCE Volume: 50 Issue: 2 Pages: 507-528 Published: JUN 1995	Times Cited: 243
13.	FORECASTING STOCK-RETURN VARIANCE - TOWARD AN UNDERSTANDING OF STOCHASTIC IMPLIED VOLATILITIES By: LAMOUREUX, CG; LASTRAPES, WD REVIEW OF FINANCIAL STUDIES Volume: 6 Issue: 2 Pages: 293-326 Published: 1993	Times Cited: 191
14.	STANDARD DEVIATIONS OF STOCK-PRICE RATIOS IMPLIED IN OPTION PRICES By: LATANE, HA; RENDLEMAN, RJ JOURNAL OF FINANCE Volume: 31 Issue: 2 Pages: 369-381 Published: 1976	Times Cited: 253
15.	Stock return dynamics, option volume, and the information content of implied volatility By: Mayhew, S; Stivers, C JOURNAL OF FUTURES MARKETS Volume: 23 Issue: 7 Pages: 615-646 Published: JUL 2003	Times Cited: 24
16.	Title: [not available] By: McHattie, A. The investor's guide to warrants: Capitalize on the fastest growing sector of the stock market Published: 1996 Publisher: Pitman Publishing, London	Times Cited: 1
17.	Trade openness and stock market volatility in the ASEAN-5 countries: New evidence using SUR	Times Cited: 3

By: Nikmanesh, Lida
INVESTMENT ANALYSTS JOURNAL Volume: 45 Issue: 3 Pages: 194-211 Published: 2016

18. **Implied Volatility Index of KOSPI200: Information Contents and Properties** Times Cited: **36**
By: Ryu, Doojin
EMERGING MARKETS FINANCE AND TRADE Volume: 48 Supplement: 2 Pages: 24-39 Published: JUL-AUG 2012
19. **Tests for unit roots: A Monte Carlo investigation** Times Cited: **13**
By: Schwert, G. William.
Journal of Business and Economic Statistics Volume: 7 Pages: 5-17 Published: 1989
20. **The predictive power of implied volatility: Evidence from 35 futures markets** Times Cited: **82**
By: Szakmary, A; Ors, E; Kim, JK; et al.
JOURNAL OF BANKING & FINANCE Volume: 27 Issue: 11 Pages: 2151-2175 Published: NOV 2003
21. **The information content of implied volatilities and model-free volatility expectations: Evidence from options written on individual stocks** Times Cited: **60**
By: Taylor, Stephen J.; Yadav, Pradeep K.; Zhang, Yuanyuan
JOURNAL OF BANKING & FINANCE Volume: 34 Issue: 4 Special Issue: SI Pages: 871-881 Published: APR 2010
22. Title: [not available] Times Cited: **1**
By: Yeandle, M.; Mainelli, M.
THE Global financial centres index 10 Pages: 2016 Published: 2015
Publisher: Z YEN Limited, London
23. **The predictive power of the implied volatility of options traded OTC and on exchanges** Times Cited: **30**
By: Yu, Wayne W.; Liu, Evans C. K.; Wang, Jacqueline W.
JOURNAL OF BANKING & FINANCE Volume: 34 Issue: 1 Pages: 1-11 Published: JAN 2010

Showing 23 of 23 [View All in Cited References page](#)

Clarivate

Accelerating innovation

© 2021 Clarivate [Copyright notice](#) [Terms of use](#) [Privacy statement](#) [Cookie policy](#)

[Sign up for the Web of Science newsletter](#) [Follow us](#)

