AGENT APPLICATION IN THE STOCK MARKET
Perminous KAHOME
University of Nairobi
P. O BOX 21429, Nairobi, 00100, Kenya
Tel: +254721587074
perminous@gmail.com

Elisha T.O. OPIYO
University of Nairobi
P. O BOX 30197, Nairobi, 00100, Kenya.
Tel: +254 20 4447870
opiy0@uonbi.ac.ke

William OKELLO-ODONGO
University of Nairobi
P. O BOX 30197, Nairobi, 00100, Kenya.
Tel: +254 20 4447870
wokelo@uonbi.ac.ke

ABSTRACT
The stock market is a key market in any economy and financial forecast such as stock price prediction is a field receiving much attention both for research studies and commercial applications. Stock market forecasters are keen on developing a successful approach to predict stock prices even more accurately since there is the motivation of gaining massive profits from trading shares by using well defined attractive strategies. Owing to its importance, many well established school of concepts and techniques known as fundamental and technical analysis have been devised in recent decades. However because these techniques or tools are on different analytical approaches, thus they yield contradictory results. More importantly they are dependent on human experts and justification in areas like pattern and trend identification. This renders them prone to errors. This research aims to design a stock price prediction model based on multi agent architecture in order to harness the power of agents and provide investors with advice to buy, sell or hold a share by incorporating the various correlated factors like economic, political, company outlook to traditional price over time, demand and supply in order to accurately forecast the stock price and thus provide a buying or selling signal to traders. The model designed will be a useful tool for stockbrokers, novice traders and investment bankers since it ’s quicker and more robust than the traditional methods of price prediction.