Is Product Innovation always Beneficial for Small and Medium Enterprises?

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Abstract—Currently, innovation is an important issue among SMEs, especially the creative industry. This research is based on the phenomenon that occurs in the creative (fashion) SMEs, such as batik, weaving, silver handicrafts and leather crafts industry that mostly traditionally produced in the Special Region of Yogyakarta, Indonesia. This study aims to examine the role of innovation in mediating the effect of market orientation and entrepreneur. It used a cross-sectional survey of 187 creative SMEs owners The data were analyzed with the analysis of structural equation modeling (SEM). Findings reveal that market orientation and entrepreneurial orientation proved to have a positive and significant effect on business performance. An interesting result of this study is that there are differences in measurement to construct market orientation variables in the context of SMEs. Other findings indicate that innovation plays a role as a mediator in the influence of market orientation and entrepreneurial orientation on SME business performance. Nevertheless, the mediating role of innovation in determining the magnitude of the influence between market orientation and entrepreneurial orientation on business performance is smaller than the direct influence. Overall, the results of this study indicate that a combination of market orientation and entrepreneurial orientation are the instruments that underlie fashion SMEs in shaping innovation to improve the performance of creative (fashion) SMEs.

Keywords—Market orientation, Entrepreneurship orientation, Innovation, Business performance, SMEs.

I. INTRODUCTION

The business environment and customer preferences always change to be more dynamic and complex. To deal with changes in the business environment and changes in customer preferences, many large companies and SMEs adopt the idea of market orientation. Market orientation as a culture related to the fundamental characteristics of an organization such as customer orientation, competitor orientation, and coordination between functions, which are operationalized in employee behavior (Narver and Slater, 1990). Market orientation also as organizational behavior, such as: obtaining information about the needs of current and future customers; dissemination of information to all parts of the company to obtain strategic synergies; and respond to information that comes from all parts in the form of marketing strategies that are in accordance with the existing market environment (Kohl and Jaworski, 1990).

Although market orientation-business performances relations have become the focus of many studies, a synthesis for existing findings to better understand this relationship in the context of SMEs have been virtually nonexistent (Raju et al., 2011). Several studies show that there are several major differences between SMEs and larger organizations (Acs and Audretsch, 1987; Coviello et al., 2000), as well as the role of market orientation is quite different in the context of SMEs. Firm size is an important consideration with respect to the competitive advantage of an organization. The medium-sized companies can behave differently from smaller companies in terms of strategic orientation and innovation (Laforet, 2009). Besides that, there is bias measurement of market orientation itself. The market orientation measurement scale known so far has been constructed for a larger organizational context. Another limitation of the current market orientation scale is that the measurement scale emphasizes individual market orientation dimensions, which are likely to be detrimental to SMEs in the sense that these dimensions might underestimate the level of market orientation for SMEs. Chances are, SMEs view market orientation as a mix of all dimensions and do not emphasize each dimension separately. Market orientation measurements designed for larger organizations, are unlikely to be suitable for measuring market orientation in the context of SMEs (Raju et al., 2011).

In addition, researchers’ attention to strategic marketing in the context of SMEs usually cannot be separated from entrepreneurial orientation. Entrepreneurial orientation is considered to involve aspects of entering a new market (Lumpkin & Dess, 1996). On the other hand, one of the key components in the success of an industry is the extent to which innovation is carried out. Innovation is one of the most important factors and has an impact on business performance.
In today's competitive environment, innovation is generally regarded as the company's capacity in creating competitive core values and one of the most important competitive weapons (Sandvik and Sandvik, 2003). Innovation is also not only needed for large companies, but also for small and medium enterprises (Jong and Vermeulen, 2006).

II. Literature Review

A. Market Orientation

The concept of marketing and market orientation is seen as one of the focus of marketing management to articulate the strategies developed. Most businesses give priority to identifying whether the company is market oriented or not. The results of the research by Narver and Slater (1990), Jaworski and Kohli (1993) show that market orientation is a company effort to always produce products/services in accordance with market/consumer needs. Market orientation will encourage companies to innovate at all times. Research on market orientation has increased significantly since 2001 and has been stable in recent years based on the findings of Liao et al. (2011) who conducted a comprehensive survey of market orientation research published in 1995-2008, but efforts to synthesize existing findings to better understand this relationship in the context of smaller organizations (SMEs) have not been many (Raju et al., 2011). Firm size is an important consideration with respect to the competitive advantage of an organization. The results of the meta-analysis of Raju et al. (2011) support a positive (direct or indirect) relationship between market orientation and business performance.

B. Entrepreneurial Orientation

The importance of entrepreneurship for a company's strategic management has been widely recognized in the strategy management literature. Previous theories and research have suggested that entrepreneurial orientation is the key to organizational success. Entrepreneurial orientation can be considered as involving aspects of entering a new market, especially how to enter the new market (Lumpkin & Dess, 1996). Slater and Narver (1995) show that entrepreneurial values increase the creation of new businesses in existing businesses and renewal or the rise of sustainable businesses that have stagnated or need transformation. Entrepreneurial orientation shows a tendency towards the creation of new products, effort, activity and competitive aggressiveness that embody action-oriented competitive positions (Cooper & Dunkelberg, 1986; Cooper, Woo & Dunkelberg, 1989). Thus, entrepreneurial orientation is characterized by courage and risk tolerance in entering new markets (Naman & Slevin, 1993; Lumpkin & Dess, 1996).

C. Innovation

Innovation is a means to change an organization, whether as a response to changes that occurs in the internal or external environment or as a preventive measure taken to influence the environment. Because the environment evolves, companies must adopt innovations over time and the most important innovations are those that enable companies to achieve a kind of competitive advantage, thereby contributing to performance (Damanpour, 1991). Innovation is related to the company's capacity to be involved in innovation; that is, the introduction of new processes, products, or ideas in the organization. Product innovation in a manufacturing company is a strategic configuration where the company truly adapts to the environment through the development of new products (Manu and Sriram, 1996). Effect of product innovation on business performance It has also become one of the important issues in the literature, from a positive point of view, product innovation is a solution provider to market threats and opportunities, creating a basis for the survival and success of a company in the future (Hult et al., 2004). On the other hand, product innovation is an expensive and risky activity (Simpson et al., 2006).

D. Business Performance

Business performance is one of the important concepts in management research. Good business performance will affect the survival of the company. Business performance is defined as the rate of sustainable income for several years (Porter, 1980). Most of the research on performance measurement comes from organizational theory and strategy management (Murphy et al., 1996). Venkatraman and Ramanujam (1989) have shown that the company's performance is a multidimensional contract. Strategists view organizational performance as three broader sequential constructs. There are three perspectives on organizational performance. First, a narrower perspective on organizational performance is financial performance. Second, according to a broader perspective, organizational performance is a business performance that includes operational performance and financial performance. Third, the broadest perspective, namely organizational performance is effective.
E. Hypothesis

The hypothesis in this study:

**H1**: Market orientation has a positive effect on business performance.

**H2**: Entrepreneurial orientation has a positive effect on business performance.

**H3**: Market orientation has a positive effect on business performance through mediation of product innovation.

**H4**: Entrepreneurial orientation has a positive effect on business performance through mediation of product innovation.

**H5**: Product innovation has a positive effect on business performance.

F. Research Model

![Research Model Diagram](image-url)

III. Methods

A. Research Design

This study used a quantitative approach and survey methods. Data obtained by submitting questionnaires directly to respondents. This research is a cross-sectional study. The unit of analysis in this study is Small and Medium Enterprises. The population are Small and Medium Enterprises (SMEs) in the province of Yogyakarta Special Region (DIY), Indonesia. The sampling method is non-probability sampling with convenience sampling technique. While the number of samples taken was 187 creative SME owners (fashion), such as batik SMEs, woven fabrics, silver handicrafts, and leather crafts owners. The method of analysis carried out in this study uses Structural Equation Modeling (SEM) with Maximum Likelihood (ML) estimation based on covariance matrices, which is applied through the AMOS (Analysis of Moment Structure) program Version 21.

B. Measurement

In this study, market orientation is defined as a culture that is owned by small and medium businesses that show behavior in delivering superior value to buyers to produce superior business performance. Many methods have been previously declared, but many of these methods include methods from Kohli and Jaworski (1993) known as MARKOR and Narver and Slater (1990) known as MKTOR. There are at least twenty-six methods that have been used to measure market orientation. The main advantages and disadvantages of each method have been reviewed by Tomášková (2009). Although there are many market orientation measurement models that have been developed by different experts, the most widely used are the MKTOR models introduced by Slater and Naver (1993). Based on previous research studies on the relationship of market orientation to business performance, this study apply Raju et al. (2011) which supports a market orientation view that consists of four dimensions, three dimensions of the MARKTOR scale (Narver and Slater, 1990), such as customer orientation (X1.1); competitor orientation (X1.2); coordination between functions (X1.3); and supplemented by one dimension of "responsiveness to market intelligence (X1.4)" of the scale MARKOR (Kohli and Jaworski, 1990). In addition, one dimension of "social benefit orientation (X1.5)" was added from the NEWMKTOR scale, developed by Gunarathne (2015) which is a further development of the MKTOR model (Narver and Slater (1990). While today most people both customers and businesses, tend to pay attention to social benefits.
Entrepreneurial orientation is defined as a process, structure and behavior of a company that is characterized by innovation, proactive and risk taking (Covin and Slevin, 1989). In this study the measurement of entrepreneurial orientation variables compiles the instruments used by Wilkund (1999) based on the results of Miller's (1983) study: innovation (X2.1), proactive (X2.2), and risk taking (X3.3).

Product innovation in this study adopted the concept in manufacturing companies as a strategic configuration of how companies really adapt to their environment through the development of new products (Manu and Sriram, 1996). According to Peters (2000) and Manu and Sriram (1996), there are three items to measure product innovation by measuring the input of innovation and output of innovation. The first two items, which measure innovation output, are based on Baker and Sinkula (1999a), such as: the number of new product introductions (Y1.1) and the uniqueness of new product introductions (Y1.2). The third item measures input innovations such as the concept of the concept of intensity of innovation (Peters, 2000) and commitment to innovation (Schoenecker et al., 1995), and is operationalized as a financial company and other resources dedicated to research and development (Y1.3).

Business performance in this study is the results obtained by the company from the activities that have been carried out over the past three years. The business performance used in this study was measured comprehensively using both financial and non-financial perspectives by adapting the size of Camison (2004) in Sances & Marin (2005) using three aspects, namely: profitability (Y2.1), productivity (Y2.3), market (Y3.3).

IV. FINDING AND DISCUSSION

A. Confirmatory Factor Analysis (CFA)

CFA is used to examine variables that define a construct that cannot be measured directly; aims to confirm whether the indicator really measures other variables; to find out the relationship between constructs and indicators; and analysis of research indicators will give meaning to a construct or latent variable to be confirmed. Based on the results of the Confirmatory Factor Analysis (CFA) in Table I, shows that all indicators of market orientation, entrepreneurial orientation, product innovation and business performance variables have loading factors above 0.4, CR values in above 1.96 and the probability value is below 0.05. Thus, all indicators have good validity, meaning that each indicator precisely measures the variables of market orientation, entrepreneurial orientation, product innovation and business performance.

| Indicator | Variable               | Loading Factor | CR    | Sig   |
|-----------|------------------------|----------------|-------|-------|
| X1.1      | Market orientation     | 0.525          | 3.920 | 0.000 |
| X1.2      | Market orientation     | 0.625          | 3.856 | 0.000 |
| X1.3      | Market orientation     | 0.635          | 3.740 | 0.000 |
| X1.4      | Market orientation     | 0.790          | 3.277 | 0.000 |
| X1.5      | Market orientation     | 0.445          | Fix   |       |
| X2.1      | Entrepreneurial Orientation | 0.604     | 4.966 | 0.000 |
| X2.2      | Entrepreneurial Orientation | 0.754     | 4.909 | 0.000 |
| X2.3      | Entrepreneurial Orientation | 0.687     | Fix   |       |
| Y1.1      | Product innovation     | 0.686          | 4.080 | 0.000 |
| Y1.2      | Product innovation     | 0.603          | 4.183 | 0.000 |
| Y1.3      | Product innovation     | 0.622          | Fix   |       |
| Y2.1      | Business Performance   | 0.555          | 4.704 | 0.000 |
| Y2.2      | Business Performance   | 0.686          | 5.010 | 0.000 |
| Y3.1      | Business Performance   | 0.846          | Fix   |       |

B. Construct Reliability Test and Variance Extracted

After testing the factor, loading indicator significance, then the construct will be evaluated by assessing construct reliability. The assessment of unidimensionality and reliability is carried out to determine whether or not the degree of suitability of an indicator is in explaining one dimension to a model. Unidimensionality is an assumption used in calculating reliability. Reliability is a measure of the consistency of an indicator in identifying a construct. There are two ways used to measure the reliability is to look at construct validity and variance extract. The boundary value used to determine whether an indicator is able to explain one dimension in a model is 0.7 while the recommended extracted variance value is at least 0.50 (Ferdinand, 2014). Summary of the results of construct reliability and variance extracted from each variable can be presented in Table II.
Based on the data in the Table II above it can be said that the construct validity and variance extract values in this study meet the required limits. Therefore, it can be concluded that the indicators used as observed variables are able to explain the latent variables that are formed.

Based on the estimation results obtained from the measurement model shows that the measurement model is stated to have unidimensionality, and the constructs used have good reliability. Even so, the assessment of the suitability of the structural model (structural model fit) will be carried out from the causality relationship between the variables built. The variables in this study are grouped into two types, namely exogenous variables or variables whose values are determined outside the model and endogenous variables or variables whose value is determined by the equation or from the model of the relationship formed. To assess whether a model is fit or not, an overall model test (full model test) is carried out. The model is said to be good when the development of the hypothetical model proposed theoretically is supported by empirical data. Through the SEM model, it will be seen whether there is a model suitability of the causality relationship built in the model being tested. Thus, the conformity assessment of the structural model conducted aims to evaluate the suitability of the observation or actual input (covariance matrix) with predictions from the proposed model (proposed model). This assessment is carried out based on the opinion of Hair, et al. (2006) which emphasized the use of more than one statistical match criteria (fit statistics) to assess the overall structural model fit. In addition, Hair, et al. (2006) states that there is no requirement that all goodness of fit indices must vary. Furthermore, the assessment of the overall structural fit model includes absolute fit performed using Chi-Square, Root Mean Square Error of Approximation (RSMEA) and Goodness of Fit Index (GFI), as well as Fit Incremental size with the Adjusted Goodness of Fit Index (AGFI) and Tucker-Lewis Index (TLI). The results of the structural model assessment in this study based on the Goodness of Fit Index criteria are presented in Table III below:

### Table II. CONSTRUCT RELIABILITY TEST AND VARIANCE EXTRACTED

| Variable                  | GFI  | Construct Reliability | Variance Extracted | Description                       |
|---------------------------|------|-----------------------|--------------------|-----------------------------------|
| Market orientation        | 1.00 | 0.756                 | 0.520              | Valid Unidimensional and Reliable |
| Entrepreneurial Orientation| 1.00 | 0.814                 | 0.595              | Valid Unidimensional and Reliable |
| Product innovation        | 1.00 | 0.770                 | 0.529              | Valid Unidimensional and Reliable |
| Business Performance      | 1.00 | 0.827                 | 0.621              | Valid Unidimensional and Reliable |

The results of a complete SEM analysis (Full Model Structural Equation) are presented in Figure II.
The structural model test results shown in Table III and Figure II show that this model is acceptable, although not all of the model's goodness of fit criteria meet the requirements. Furthermore, the test results of the model are feasible to be presented because they are considered to have accurate estimation values. This means that theoretically a good estimate is if it produces small residuals. To see whether the estimation model has a satisfying predictive degree by looking at the residual value, namely observing the standardized residual covariance matrix (Ferdinand, 2014). The residual value is set at ± 2.58 at a 1% significance level (Hair, et al., 2006). This information can be seen from the standardized residual covariance value shows that the residual value is in the range ± 2.58. This shows that the predictive results of the structural model are accurate, so there is no need to modify the model.

C. Hypothesis Testing

Hypothesis 1 states that "market orientation has a positive effect on business performance." Based on Table IV, shows that the Standardized Regression Weight coefficient on the path of the relationship between market orientation and business performance is 0.326 with a probability (p-value) of 0.045 smaller than 0.05 (p-value < 0.05). These results show empirical evidence that market orientation has a positive and significant effect on business performance in the context of SMEs. That is, the higher the market orientation level of SMEs in the fashion creative industry, the higher the business performance obtained. This finding is consistent with the results of research conducted by Narver and Slater (1990); Kohli and Jaworski (1990); in line with the results of a meta-analysis conducted by Ellis (2006) about the relationship of market orientation with performance. In particular, these findings also support a literature study of sixteen studies conducted by Raju et al. (2011), which proves a positive (direct or indirect) relationship between market orientation and business performance in the context of SMEs.

Hypothesis 2 states that "entrepreneurial orientation has a positive effect on business performance." Based on Table IV, shows that the Standardized Regression Weight coefficient on the path of the relationship between entrepreneurial orientation and business performance is 0.348 with a probability (p-value) of 0.015 smaller than 0.05 (p-value < 0.05). These results show empirical evidence that entrepreneurial orientation has a positive and significant effect on business performance in the context of SMEs. That is, the higher the level of entrepreneurial orientation of SMEs in the fashion creative industry, the higher the business performance obtained. The findings in this study are consistent with the conception of Miller (1983); Covin and Slevin (2006) that entrepreneurial orientation related to innovative behavior, proactive behavior and courage to take risks can improve business performance. The results of this study also support the research of Avlonitis and Salavou (2007) who found a positive and significant influence of entrepreneurial orientation on company performance.

Hypothesis 3 states that "market orientation has a positive effect on business performance through product innovation." Mediation Test results show that Product Innovation (Y1) mediate indirect effects from the influence of Market Orientation (X1) on Business Performance (Y2). This can be seen from the coefficient value of the Standardized Regression Weight on the path of indirect relationship between Market Orientation and Business Performance of 0.152 with a probability (p-value) smaller than 0.05 (p-value <0.05). This result gives meaning that understanding and implementation of Market Orientation as the basis for applying Product Innovation is able to improve Business Performance so that hypothesis 3 can be supported.
From the path of the relationship between Market Orientation and Product Innovation shows that the Market Orientation variable can significantly explain the Product Innovation variable with a coefficient of 0.670 (c). In addition, the Product Innovation variable is significantly able to explain the Business Performance variable with a coefficient of 0.510 (d). While the path coefficient of the Market Orientation variable that is controlled by the Product Innovation variable is able to significantly explain the Business Performance variable with a coefficient of 0.422 (a). Furthermore (a) has a smaller coefficient value (down) from the influence of Market Orientation on Business Performance without a product innovation variable (b). The coefficient value of (b) is 0.746. Thus, it can be said that Product Innovation acts as a partial mediation of the indirect effects of Market Orientation on Business Performance. The results of this test indicate that Market Orientation is able to improve Business Performance through Product Innovations that are carried out and then Product Innovation will be able to improve Business Performance.

This finding is consistent with Han, Kim, and Srivastava (1998); Low et al. (2007) which proved a positive correlation between market orientation and innovation, and between innovation and company performance. This study also supports several findings that use innovation as a mediation of market-performance-business relationship in the context of SMEs (Laforet (2009); Raju et al. (2011); ability to introduce unique products and combinations of orientations market and product innovation contribute to superior performance in SMEs (Avlonitis and Salavou, 2002).

Next, Hypothesis 4 states that "Entrepreneurial Orientation has a positive effect on Business Performance through Product Innovation." Mediation Test results show that Product Innovation (Y1) mediate indirect effects from the influence of Entrepreneurial Orientation (X2) on Business Performance (Y2). This can be seen from the coefficient value of the Standardized Regression Weight on the path of the indirect relationship between Entrepreneurial Orientation and Business Performance of 0.130 with a probability (p-value) smaller than 0.05 (p-value <0.05). This result gives meaning that understanding and implementation of Entrepreneurial Orientation which is used as the basis for the application of Product Innovation can improve Business Performance so that hypothesis 4 can be supported.

Based on the results of the mediation test (Figure IV), it can be seen that the entrepreneurial orientation has an indirect impact on business performance through the product innovation variable. From the path of the relationship between Entrepreneurial Orientation and Product Innovation shows that Entrepreneurial Orientation variable is significantly able to explain Product Innovation variable with a coefficient of 0.640 (c). In addition, Product Innovation variable is significantly able to explain Business Performance variable with a coefficient of 0.501 (d). While the path coefficient of the Entrepreneurial Orientation variable that is controlled by the Product Innovation variable is able to significantly explain Business Performance variable with a coefficient of 0.441 (a). Furthermore (a) has a smaller coefficient value (down) from the influence of Entrepreneurial Orientation on Business Performance without Product Innovation variable (b). The coefficient value of (b) is 0.756. Thus, it can be said that Product Innovation plays a role as a partial mediation of indirect effect of Entrepreneurial Orientation on Business Performance. The results of this test indicate that Entrepreneurial Orientation is able to improve Business Performance through Product Innovations carried out and furthermore Product Innovation will be able to improve Business Performance.

This study supports the views of Rhee et al. (2010); Hult et al. (2004) that entrepreneurial orientation is an attitude towards specific types of behavior, while innovation is to build outcome-based behavior. From this point of view, entrepreneurial orientation can be considered as an antecedent of innovation, and shows that both are separate constructs.

Finally, Hypothesis 5 states that "Product Innovation has a positive effect on Business Performance." Based on Table IV, shows that Standardized Regression Weight coefficient on the path of relationship between Product Innovation and Business Performance is 0.345 with a probability (p-value) of 0.044 smaller than 0.05 (p-value<0.05). These results show empirical evidence that Product Innovation has a positive and significant effect on Business Performance in the context of SMEs. That is, the higher level of SME Product Innovation in the creative fashion industry, the higher Business Performance obtained. From Table IV, the total value of effect of the relationship between Market Orientation and Entrepreneurial Orientation through the mediation of Product Innovation has the same value (0.476). This indicates that the mediation of Product Innovation in generating the impact of the influence between Market Orientation and Entrepreneurial Orientation plays a very important role in creating better performance for SMEs. This finding is consistent with the study of Rosenbusch et al., (2011); Atuaheme-Gima and Ko (2001); Low et al. (2007) which shows that innovation has a positive effect on SME performance.

V. CONCLUSIONS

This research focused on three main issues; first, the relationship between market orientation, entrepreneurial orientation, and business performance. Second, the role of product innovation as mediator variable. Third, the application of the relationship of market orientation, entrepreneurial orientation, product innovation and business performance in the context of SMEs. The findings reveal that market orientation and entrepreneurial orientation had a direct and indirect influence through the mediation of product innovations on business performance, especially in creative (fashion) SMEs in the province of DIY, Indonesia.
research provide empirical contributions to the market focused concepts of Narver and Slater (1990); the concept of entrepreneurship from Miller (1993); the concept of strategic configuration in a manufacturing company is where the company truly adapts to the environment through new product development innovations (Manu and Sriram (1996).

This research has several limitations; first, this study adopted the design of a cross-sectional study, so that the findings could not explain how the innovation development process took place in SMEs. Future research is recommended using longitudinal studies. Second, this study only examines the mediator’s role of innovation, for future research, perhaps evaluating other contingency factors such as organizational structure, pressure on the business environment and business age as moderator variable. Third, this study cannot compare research models on various types of SMEs between the manufacturing and service sectors. Further research will be valuable if you can compare models of innovation in SMEs in the manufacturing sector and the service sector.

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REFERENCES

Atuahene-Gima, K., Ko, A., 2001. An empirical investigation of the effect of market orientation and entrepreneurship orientation alignment on product innovation. Organization Science 12, 54–74.

Avlonitis George J, Salavou Helen E (2007). Entrepreneurial orientation of SMEs, product innovativeness, and performance. Journal of Business Research 60(5):566–75.

Cooper, A. C., & Dunkelberg, W. C. 1986. Entrepreneurship and paths to business owner-ship. Strategic Management Journal, 7: 53-68.

Damounpour (1991). Organizational innovation: a meta-analysis of effects of determinants and moderators. Academic Management Journal; 34(3):555 –90.

Ellis Paul D. (2006), Market orientation and performance: a meta-analysis and cross-national comparisons. Journal of Management Study;43:1089–107 [July].

Gunarathne, Umesh, W.H.D.P (20015). Measurement Model of the Market Orientation: New Theoretical Framework NEWMKTOR Model. International Journal of Management and Commerce Innovations, Vol. 3, Issue 1, pp: (255-263)

Hult, G.T.M., Hurley, R.F., Knight, G.A., 2004. Innovativeness: its antecedents and impact on business performance. Industrial Marketing Management 33, 429–438.

Hurley RF, Hult GTM (1998). Innovation, market orientation, and organizational learning: an integration and empirical examination. Journal of Marketing; 62: pp. 42– 54.

Jong, J.P.J. and Vermeulen, P.A.M. (2006), “Determinants of product innovation in small firms: a comparison across industries”, International Small Business Journal, Vol. 24 No. 6, pp. 587-609.

Kohli, A. K., & Jaworski, B. J. (1990). Market orientation: The construct, search propositions, and managerial implications. Journal of Marketing, 54(2), 1–18.

Laforet Sylvie (2009). Effects of size, market and strategic orientation on innovation in non-high-tech manufacturing SMEs. European Journal of Marketing: 43(12):188–212.

Liao, S.H., Chang, W.J., Wu, C.C., & Katrichis, J.M. (2011). A survey of market orientation research (1995–2008). Industrial Marketing Management, 40(2), 301–310.

Low David R, Chapman Ross L, Sloan Terry R (2007). Inter-relationships between innovation and market orientation in SMEs. Management Research News; 30(12):878–91.

Lumpkin, G.T., Dess, G., 1996. Clarifying the entrepreneurial orientation construct and linking it to performance. Academy of Management Review 21 (1), 135–172.

Manu, F.A. and Siriram, V. (1996), Innovation, marketing strategy, environment, and performance, Journal of Business Research, Vol. 35 No. 1, pp. 79-91.

Miller, D., 1983. The correlates of entrepreneurship in three types of firms. Management Science 29 (7), 770–791.

Narver, J. C., & Slater, S. F. (1990). The effect of a market orientation on business profitability. Journal of Marketing, 54(4), 20–35.

Peter, J. (2000). Buyer market power and innovation activities: evidence for German automobile industry. Review of industrial organization. Vol 16 No.1, pp.13-38.

Raju, P.S., Lonial, S. C., & Crum, M. D. (2011). Market orientation in the context of SMEs: A conceptual framework. Journal of Business Research 64: pp. 1320-1326.

Salavou Helen. (2002). Profitability in market-oriented SMEs: does product innovation matter? European Journal of Innovation Management; 164–71.

Sandvik, I.L. and Sandvik, K. (2003), “The impact of market orientation on product innovativeness and business performance”, International Journal of Research in Marketing, Vol. 20 No. 4, pp. 255-376.

Simpson, P.M., Sigauw, J.A. and Enz, C.A. (2006), “Innovation orientation outcomes: the good and the bad”, Journal of Business Research, Vol. 59 Nos 10-11, pp. 1133-41.

Slater Stanley F, Narver John C. Market orientation and the learning organization. J Mark 1995;59:63–74 [July].

Venkatraman, N. 1989b. The concept of fit in strategy research: Toward verbal and statistical correspondence. Academy of Management Review, 14: 423-444.