ABSTRACTS



6th International Conference on Economics and Social Sciences (ICESS-2015)

Surabaya, Indonesia

14 -15, February 2015

Organized by

International Foundation for Research and Development (IFRD)

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Preface

Dear Distinguished Delegates and Guests,

The Conference Committee warmly welcomes our distinguished delegates and guests to the 2015 International Conference on Economics and Social Sciences (ICESS-2015) held on February 14-15 in Surabaya, Indonesia.

The ICESS-2015 is organized by International Foundation for Research and Development (IFRD). The conference is aimed at discussing with all of you the wide range of problems encountered in present and future issues in economies and Societies. The ICESS-2015 is organized in collaboration with Dr. Soetomo University Surabaya, Indonesia, Yildirim Beyazit University, Turkey, Shinawatra International University, Thailand, PERTRE ANDERI of IASI, Romania and National Academy of Management, Ukraine where researchers from around the world presented their work. The conference committee is itself quite diverse and truly international, with membership around the world.

The proceeding records the fully refereed papers presented at the conference. The main conference themes and tracks are Economics, Business and social sciences. The conference aims to bring together researchers, scientists, engineers and practitioners to exchange and share their experiences, new ideas and research results about all aspects of the main conference themes and tracks and discuss the practical challenges encountered and the solutions adopted. The main goal of the event is to provide a scientific forum for exchange of new ideas in a number of fields that interact in depth through discussions with their peers from around the world.

The conference has solicited and gathered technical research submission related to all aspects of major conference themes and tracks. All the submitted papers have been peer reviewed by the reviewers drawn from the scientific committee, external reviewers and editorial board depending on the subject matter of the paper. Reviewing and initial selection were undertaken electronically. After the rigorous peer-review process, the submitted papers were selected based on originality, significance, and clarity for the purpose of the conference. The conference program is extremely rich, featuring high-impact presentations. The high quality of the program guaranteed by the presence of an unparalleled number of internationally recognized top experts. The conference will therefore be a unique event, where attendees will be able to appreciate the latest results in their field of expertise, and to acquire additional knowledge in other fields. The program has been strutted to favor interactions among attendees coming from many diverse horizons, scientifically, geographically, from academia and from industry.

We would like to thank the program chairs, organization staff, and members of the program committee for their work. We are grateful to all those who have contributed to the success of ICESS -2015 especially our partners. We hope that all participants and other interested readers benefit scientifically from the proceedings and find it stimulating in the process. Finally, we would like to wish you success in your technical presentations and social networking.

We hope you have a unique, rewarding and enjoyable time at ICESS-2015 in Surabaya.

With our warmest regards,

Conference Committee February 14–15, 2015 Surabaya, Indonesia.

ICESS-2015

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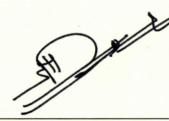
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RATIONAL AND IRRATIONAL PROPERTY BEHAVIOR (STUDY CASE IN BALI, INDONESIA)

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Abstract: Property buying behavior is part of the development of financial behavior. This research will be focused on the buyers perspectives on residential and commercial properties in Bali Island of Indonesia. Rational and irrational factors are the factors underlying the property buying process. The Physical, Location, Environment, Finance factors were part of the rational; while Psychological (over-confidence, conservatism bias, information and familiarity, herd behavior, mental accounting, and loss aversion), Emotion, Intuitional, Socialization, Evaluation were the irrational part. The purpose of this study was, first, to determine the factors that distinguish buyers behavior toward purchasing a property; second, to determine the factors that distinguish buyers behavior between buyers intending to live in compared to those seeking to invest. The study sample consisted of individuals who are prospective buyers and those who have bought property in Bali. Data were analyzed using Discriminant Analysis. The results showed that only financial factor that had significant impact on buyers decisions. Furthermore, this study also showed that there were significant differences in factors between buyers intending to live in compared to those seeking to invest. The factor were psychology, emotion, intuitional, and evaluation.

Keywords: Rational, irrational, live in, investment, Bali

1. Introduction

Real estate is often approached as a financial asset. In reality, real estate is both a financial asset and a physical resource, a resource that is comprised of the site itself and the externalities that surround it and connect it to other parcels or activities. The prices of this resource is a result of individual negotiations rather than some listing price that is offered to the broader market. Thus, the real estate discipline must be approached as a behavioral science because of its inefficient market. (DeLisle, n.d). Buying a property is one of the most significant financial decisions that people make, and it requires collecting a lot of information regarding its features. Behavioral research focuses on concepts that affect the market search and price-setting processes. Greater knowledge of the factors influencing buyers' behavior will lead to better understanding and prediction of decision making in real estate markets (Daly et al. 2003).

Survey of property behavior will be held in Bali because annual economic growth of Bali is very good at 6.6%, above the national Indonesian economic growth by 6.1%. A survey conducted by Knight Frank proved that land price in strategic areas of Bali has increased rapidly up to 43%, the highest increase in the last 10 years. This land prices continue to rise earlier varies between 8% to 16% ("Bali Property Prices record in 2013", 2013). The Wealth Report 2014 issued by Knight Frank showed that the highest property prices in the world occurs in Jakarta that is equal to 33% and Bali was at third stage after Auckland, 22% (Knight, 2014).

Furthermore, this study is micro-oriented which investigates individual behaviors and the reasons behind them. The factors consisted of rational and irrational factors. This kind of studies has not much been investigated in the Indonesian market, particularly in the real estate. From previous studies, researcher classified the important factors affecting the decision to buy a property which are consist of Physical, Location, Environmental, Financial for the rational part; and Psychology, Emotion, Intuitional, Socialization, Evaluation for the irrational part.

Statement of the problem:

- 1. What are the factors that distinguish buyer buyers behavior toward purchasing a property?
- 2. What are the factors that distinguish buyers behavior between buyers intending to live in compared to those seeking to invest?

Objective of the study:

- 1. To determine the factors that distinguish buyers behavior toward purchasing a property.
- 2. To determine the factors that distinguish buyers behavior between buyers intending to live in compared to those seeking to invest.

2. Review of Literature

The researches about real estate buying behavior in Indonesia were not yet to be found in public literatures. This research uses a summary of existing variables identified in previous researches. Since the previous researches were conducted in countries that have significantly different conditions and cultures compared to Indonesia, particularly Bali Island, some adjustment were made. The increasing volume of real estate transaction in Bali over the past few years has been a phenomena that increases the most of the investors' awareness of real estate. Therefore, this study will provide a better understanding of decision making context and influences to all real estate participants which are the investors, buyers, and agents.

Traditional financial theory is based on idea or notion that investors act rationally and consider all information properly in decision-making process (Kishore, 2006). Salzman and Zwinkels (2013) agree that this theory deals with utility maximization concept (UM), which ended on Efficient Market Hypothesis (EMH). Consumer behavior theory comes from demand analysis in microeconomics to reducing the marginal utility and indifference curves. This study was able to explain how humans will behave in market if goods are in ideal conditions and able to explain importance of income and determining purchase price level. However, this study was not able to explain reasons behind their behavior and actions. Therefore, researchers add another factor to enhance this theory. Koklic and Vida (2009) focus on psychological factors and social decision. Katona (1953) adds psychology, sociology, and anthropology factors to a better understanding of consumer problem solving (in Black et al., 2003).

This study of buyers behaviour in the real estate purchase decision have provided the foundation of the factors affecting property buying decision, both rational and irrational. Ratchatakulpat et al. (2012) have provided an overall view of variables. The influences selected were physical, distance, locational, environmental, financial, legal, psychological, and evaluation. One problem study is that the irrational factors were not thoroughly discussed. A minority studies behavioural phenomena, with an eye for consumption function that pays attention to social and emotional side of homeownership (Salzman & Zwinkels, 2013). Beracha & Skiba (2014) have explained some of most common micro-level bias, such as overconfidence, mental accounting, loss aversion, familiarity bias, slow reaction to information. Salzman & Zwinkels (2013) also provided a broader explanation of psychology and social determination of real estate decision making. The limitations bias the households' view on property are over-optimism, overconfidence, confirmation bias, momentum effect, herd behaviour, irrational exuberance, regret theory, money illusion, mental accounting, loss aversion, and home bias. Moreover, the study explained relationships of emotions and buyers decision making.

Physical influences or property features is an important determinant of a household choice of residence (Quigley, as cited in Haddad, 2011). Physical influences include design, property quality and property size have positive impacts on buyers' decision to purchase a property (Adair et al., 1996; Daly et al., 2003; Ratchatakulpat et al., 2009). Lindberg, Gärling, & Montgomery (1989); Louviere and Timmerman (1990) found that another important influences is property location (in Lan, 2011), it was included in the most of previous researches (Adair et al., 1996; Si, 2012; Haddad, 2011). Furthermore, Wang & Li (2004) found that environmental influences were more important than property itself. Gabriel & Rosenthal (1989) stated that households individual characteristics neighborhood quality was concluded as one of the determinants of a household's residential choice (Si, 2012).

3. Methodology

A survey was both hand-delivered and sent online amongst prospective real estate buyers and those who already bought at least one property such as house, villa and condotel in Bali, Indonesia, spesifically property in Badung and Denpasar Region. The questionnaires were given to 100 respondents. They consisted of three main sections: background information of respondents, the rational factors and the irrational factors from the literature that are created for this research (see Appendix 1). Questions used a

five-point Likert scale from 1 = 'highly unimportant' or 'strongly disagree' to 5 = 'highly important' or 'strongly agree'.

The research population consisted of both potential real estate buyers and those who already bought a property in Bali from anywhere in the world. Recruiting respondents was purely on the basis of convenience and gathered from Bali community including expats. The purpose was to obtain a large number of completed questionnaires quickly and efficiently. The survey was completed in 2 weeks.

Discriminant Analysis using SPSS program was used in analyzing the data to test the hypotheses. Discriminant analysis is used to analyze relationships between a non-metric dependent variable and metric or dichotomous independent variables. Discriminant analysis attempts to use the independent variables to distinguish among the groups or categories of the dependent variable.

4. Results and Discussion

The first stage of survey analysis describes respondent demographic. The property purchasers are shown in table 1. There are 57 respondents who have not bought property in Bali and 43 respondents who have bought at least one property in Bali. 31 respondents in the group that have not bought property in Bali are intending to live in, while 26 respondents intending to invest. As many as 27 respondents have bought a property in Bali for live in, while 16 have bought one for investment. The largest group of age is 25-35 years and the largest group that have bought property in Bali is 46-55 years. Most of the respondents are married with children (60%). The majority are from Bali (40 respondents), and among 33 non-Indonesians, 15 of them are from Australia.

Table 1 Respondent Demographic Characteristics					
Respondent <u>Characteristics</u>	Have not bought		Have	ebought	
	Live In	Investment	Live In	Investment	
Gender :					
Male	17	17	20	11	
Female	14	9	7	5	
	31	26	27	16	
Age group :					
Under 25 years	4	5	0	0	
25-35 years	11	11	4	4	
36-45 years	8	6	8	3	
46-55 years	6	3	8	5	
Over 56 years	2	1	7	4	
Marital Status :					
Single	10	11	2	2	
Married without	5	2	6	2	
Married with	16	13	19	12	
Nationalities :					
Indonesian	22	21	12	12	
Not Indonesian	9	5	15	4	
Origin Continent :					
United States	2	1	4	0	
Europe	3	2	7	0	
Australia	4	2	5	4	
Asia (Indonesia)	22	21	11	12	
Origin City/					
Bali	18	7	11	4	
Surabaya	1	8	1	7	
Jakarta	0	2	2	1	
Others	12	9	13	4	

Table 1 Respondent Demographic Characteristics

Table 2 provides the details of respondent purchase characteristics. More than half of respondents already have their own house (52 respondents). The largest group has not bought a property anywhere (38 respondents) and the majority of respondents have considered purchasing a house (51 respondents) rather than a villa (38 respondents) and a condotel/apartment (11 respondents).

Table 2 Respondents Purchasing Characteristics					
Characteristic	Have not bought		Have bought	ve bought	
	Live In	Investme nt	Live In	Investment	
Living Status :					
Parents/relatives home	9	11	0	4	
Rent	14	5	4	1	
Own house	8	10	23	11	
Number of Property	Number of Property				
Bought (anywhere)					
None	21	17	0	0	
1	1	5	13	5	
2	0	1	1	3	
3+	9	3	13	8	
Type of Property :					
House	20	13	13	5	
Villa	10	10	14	4	
Condotel/Apartment	1	3	0	7	

Before analyzing rational and irrational factor using discriminant analysis, the data were tested for the validity, reliability, and normality.

Validity and reliability analysis: The validity analysis was conducted to see if the questions given were valid. It was conducted by calculating the r-value (corrected item-total correlation). The r-value for 47 items were positive and well exceeded r-table (0.195), hence, the validity was established. The reliability analysis following the validity analysis was conducted by calculating the Cronbach's alpha for each factor. Cronbach's alpha for the eight constructs well exceeded 0.195, hence, established their reliability. The results of Corrected item-total correlation and Cronbach's alpha were reported in Table 3A for rational factors.

Table 3A	Validity and Reliability Rational Factors			
Factors	Variables	Cronbach's Alpha	Corrected Item- Total Correlation	
	P1		0,649	
	P2		0,630	
	P3		0,508	
Physical	P4	0,856	0,525	
Fllysical	P5	0,030	0,700	
	P6		0,659	
	P7		0,571	
	P8		0,575	
	L1		0,592	
	L2		0,459	
	L3		0,546	
	L4		0,694	
Location	L5	0,806	0,690	
	L6		0,329	
	L7		0,608	
	L8		0,517	
	L9		0,234	

Environmenta l	E1		0,531
	E2		0,610
	E3		0,549
	E4	0,804	0,587
	E5		0,490
	E6		0,658
	E7		0,417
	F1		0,491
	F2		0,893
Financial	F3	0.020	0,920
	F4	0,920	0,933
	F5		0,927
	F6		0,478

Table 3B	Validity and Reliability Irrational Factors			
Factors	Variables	Cronbach's	Corrected Item-	
		Alpha	Total Correlation	
	PS1		0,400	
	PS2		0,286	
Psychology	PS3	0,646	0,330	
rsychology	PS4	0,040	0,339	
	PS5		0,374	
	PS6		0,550	
Emotion	EM1		0,244	
	EM2	0,578	0,530	
	EM3		0,277	
	EM4		0,436	
	I1		0,298	
Intuitional	I2	0,528	0,333	
	I3		0,404	
	S1		0,518	
Socialization	S2	0,713	0,609	
SUCIAIIZALIUII	S 3	0,713	0,564	
	S4		0,318	
	EV1		0,458	
Evaluation	EV2	0,527	0,298	
	EV3		0,304	

The ratio of skewness = 0.008 / 0.241 = 0.0332; and the ratio of kurtosis = 0.197 / 0.478 = 0.412. Because of the ratio of skewness and kurtosis are between -2 to +2, it can be concluded that the data are normally distributed.

Table 4 Normality test				
	Skewness		Kurt	tosis
	Statistic	Std.	Statistic	Std. Error
Unstandardized Residual	0,008	0,241	0,197	0,478

Analysis will be continued by discriminant analysis to determine differences in rational and irrational factors that influence consumers in making decision to buy a property in Bali. Subsequently also to know their purpose which is to buy for live in or investment a property for the future.

vestment'
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Box's M test results for group to buy and have bought yet demonstrated that F-value is 14.108, it is significant at 0.000 and the probability is below 0.05, it can be concluded that covariance matrix between groups is different and in this case violates discriminant assumption. However, a discriminant function analysis remains robust despite the assumption of homogeneity of variance was not met with data requirements and did not have outliers (Ghazali, 2008). Box's M test results for the group to live in and investment shows that F-value is 0.792 and it is significant at 0.637 > 0.05, which means that data between groups live in and investment have a covariance matrix equation.

bought)

Table 6 Test of Equality of Group Means (Have not bought and Have				
Fakto	or	Wilk's	Sig.	
Physic	cal	0,966	0,065	
Locati	on	0,966	0,068	
Environm	nental	0,978	0,144	
Financ	cial	0,809	0,000	
Psychol	logy	0,931	0,008	
Emoti	on	0,970	0,084	
Intuitio	onal	0,992	0,369	
Socializa	ation	0,943	0,017	
Evaluat	tion	0,946	0,020	

The above table 6 shows that all variables except financial have Wilk's Lambda values above 0.9. Getting closer to 1, the data tend to be equal for each group. The significant value (F-test), there are four significant variables that have value < 0.05, which shows the difference between group ' Have not bought' and 'Have bought', ie financial, psychology, socialization, and evaluation. However, these results still need to be processed to ensure validity.

Table 7 Variables entered in discriminant (Have not bought and Have bought)

Step	Entered	Statistic	Sig.
1	Financial	23.191	5.341E-006

Inclusion of variables using stepwise process (stages), starting with variable which has F-test (statistics) the highest one. It can be seen, only one variable, financial. Thus, purchase consideration of respondents who have not bought property and have bought property influenced by financial factor only.

Table 8	Second state Second state Second state Second state				
	Wilk's Lambda	Chi-Square	Sig.		
	0,809	20,709	0,000		

Table 8 indicates a significant difference between two groups on discriminant model. So respondent behavior between the two groups is significantly different (significant 0.000 < 0.05).

Table 9 Classification Results (Have not bought and Have bought)		
Original	67%	
Cross-validated	67%	

The results of classification on original and leave-one-out-cross validation methods, both produce a figure 67%, which is the accuracy rate is high. That is various table interpretation that are valid for use.

Table <u>10</u>	Mean (Have not bought and Have bought)		
	Indicators	Have not bought	Have bought
F1 ((Price)	4,67	4,23
F2 ((Interest rate)	4,35	3,42
F3 ((Mortgage)	4,21	3,26
F4 ([Monthly payment]	4,28	3,28
	Term of payment)	4,32	3,19

F6 (Length of period	3,91	3,21
property was on the market)		

From the table 10, it can be seen that all financial factors indicators factors in have not bought group has a mean value higher than have bought group. This means that respondents who have bought property in Bali more attention to property prices, interest rates, mortgage amount, maximum amount of monthly installments, payment terms, and length of the property market

Table 1 <u>1</u>	Test of Equa	lity of Group Me	eans (Live In dar	<u>n</u> Investment)
	Factors	Wilk's	Sig.	_
	Physical	1,000	0,833	_
	Location	0,991	0,346	
	Environmental	0,988	0,278	
	Financial	0,983	0,200	
	Psychology	0,956	0,037	
	Emotion	0,925	0,006	
	Intuitional	0,928	0,007	
	Socialization	0,982	0,188	
	Evaluation	0,950	0,025	

Table 11 shows that all variables except psychology, emotion, intuitional, and evaluation have significant value (F-test) < 0.05. The three variables showed the difference between group 'Live in' and 'Investment'. However, these results still need to be processed to ensure validity.

The significant value (F-test) in table 12 showed there are three significant variables value < 0.05, ie psychology, emotion, and intuitional. This means that the difference between purchase consideration properties respondents intended to live in and respondent intended to investment lies in factors psychology, emotion, intuitional, and evaluation.

Table 12Variables entered in discriminant (Live In and Invest	ment)
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Entered	Statistic	Sig.
Emotion	7,991	0,006
Psychology	9,461	0,000
Intuitional	9,664	1.235E-005
Evaluation	8,932	3.628E-006
	Emotion Psychology Intuitional	Emotion 7,991 Psychology 9,461 Intuitional 9,664

Stepwise process were conducted to select the variables that are significantly affect the live in and investment buyers behavior. The variables selected are emotion, psychology, intuitional, and evaluation (Table 12).

Table 1	3 Wilk's Lan	Wilk's Lambda		
	Wilk's Lambda Chi-Square Sig.			
	0,727	30,649	0,000	

Table 13 indicates that there is a significant difference between two groups (live in and investment) in discriminant model.

Table 14 Classification Results (Live In and Investment)		
Original	73%	
Cross-validated	68%	

The original classification result is 73%. With the leave-one-out cross validation method conducted, the classification result becomes 68%. The results are still high and therefore the discriminant model are valid.

Table 15	Mean (Live In and Investment)		
Faktor	Indikator	Live In	Investment
	PS1 (over-confidence)	3,43	3,93
	PS2 (conservatism bias)	3,12	2,90
Psychology	PS3 (familiarity bias)	3,95	3,93
rsychology	PS4 (herd behavior)	3,21	3,48
	PS5 (mental accounting)	3,36	3,79
	PS6 (loss aversion)	3,36	3,76
	EM1 (safety)	3,67	3,93
Emotion	EM2 (self-image)	3,62	3,40
EIIIOUOII	EM3 (comfortable)	4,60	4,14
	EM4 (meaning)	4,28	3,93
	I1 (first impression)	4,05	3,64
Intuitional	I2 (self opinion)	3,88	3,62
	I3 (assurance)	3,76	3,93
	EV1 (less than 10 property)	3,33	3,71
Evaluation	EV2 (legality)	4,24	4,45
	EV3 (less than 2 months)	3,26	3,45

From Table 15, it can be concluded that in terms of psychology, those who aim to invest have four bias (deviation) which tend to be greater. Such irregularities are over-confidence, herd, mental accounting, and loss aversion. While group live in does not pay attention more to the latest economic news and prefer properties in areas that are closer or familiar. Ratchatakulpat et al (2009) research on prospective buyers in Australia also found that those seeking to invest are more concern about the psychology factor. From the emotional side, the investment group pays more attention to security than live in groups. However, the live in group prefers to live in the properties that reflect their personal characteristics. In addition, this group also prioritize comfort and better appreciate owned property. Focus to intuition of respondents, the group who aims to live in has more intuition and confidence than the group that buys property for investment. Where respondents who aim to invest are more confident in terms of generating large returns. Investment buyers are more concerned with inspecting fewer than 10 properties and the purchasing process taking under 2 months. They also prefer real estate agents who explain the forms and legalities of the process. These findings regarding the evaluation factors are the same as the study by Ratchatakulpat et al (2009).

5. CONCLUSION

This study concluded that there was a significant difference in decision making regarding buying property in Bali between respondents who have not bought property in Bali and those who have. The factor was financial, where those who have not bought property in Bali were more concern about the financial factor. The study also found that there were significant differences in decision making regarding buying property in Bali between respondents intending to live in compared to those seeking to invest. The factors were psychology, emotion, intuitional, and evaluation. Investment buyers considered psychology, intuitional, and evaluation factors more important in their decision making processes.

6. RECOMMENDATIONS

This section will discuss some limitations that this study has. First, the sample of this study is only 100 respondents and since the respondents were picked randomly, the respondents who were interested in purchasing and have not purchased any properties in Bali were assumed that they are the prospective purchasers of property. However, individuals who are interested in purchasing property vary in their intentions regarding the likelihood and timing of actually purchasing a property. Some of them may or may not view numbers of properties with intention to purchase whether in immediate time or a really long period of time. Prospective buyers may also do not have a clear cut decision to live in or invest. And therefore, the outcomes may not represent the buyers' behavior perfectly. Secondly, the one-shot survey only captures a certain point in time. Given the nature of buyer behavior, it will be great if the process of buyers' decision making is discussed and therefore add more quality to the output.

One of the most important implications of this study is the distinctions between live in and investment for the prospective buyers. Most of the prospective buyers may not have a clear intention of purchasing a property for live in or investment. There are several stages found in the process of searching a property. The prospective buyers at earlier stages (those who have not yet started searching) of the process may not have the same level of understanding the importance of each factors with those who are already at further stage of the process (those who have already viewed several options).

To ascertain more degree of generalization for the study, further research could be conducted to include respondents from the real estate offices, in addition to the buyers and prospective buyers of properties. This way, we may get respondents with bigger possibilities of actually searching for properties and considering to purchase.

Moreover, it was strongly recommended for further research to differentiate the factors according to the types of property. The differentiated factors may provide more specific characteristic of each type of property, and therefore the outputs will better explain the buyers' behavior towards each type of property. Another avenue for future research is to add more factors or variables to the study, such as marketing, legal, culture and other factors represent real estate financial behavior.

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