

**A COMPARATIVE STUDY OF
SUCCESS FACTORS IN TECHNOLOGY-BASED
ENTREPRENEURSHIP IN IRAN AND INDIA**

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A COMPARATIVE STUDY OF SUCCESS FACTORS IN TECHNOLOGY-BASED ENTREPRENEURSHIP IN IRAN AND INDIA

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DEDICATION

*This piece of research is a heartfelt and loyal endowment to the presence
of the promised savior of human beings,*

“IMAM MAHDI (pbuh)”

whose appearance is

acme of knowledge, evolution of mankind and bliss of humanity.

I dedicate this entire effort and my life to his Holiness.

I wish I'll be counted among his companions.

CERTIFICATE

This is to certify that the thesis entitled “**A Comparative Study of Success Factors in Technology-Based Entrepreneurship in Iran and India**” being submitted by Mr. **Seyed Ali Omrani** to the Indian Institute of Technology, Delhi for the award of the degree of Doctor of Philosophy is a bonafide record of the research work carried out by him under our supervision and guidance. The thesis work, in our opinion, has reached the requisite standard, fulfilling the requirements of the said degree. The results contained in the thesis have not been submitted, in part or full, to any other University or Institute for the award of any degree or diploma.

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In the name of God, the Beneficent, the Merciful.

Praise be to God, Lord of the Worlds.

How poor is a man when he finds himself incapable of a worthy appreciation to Almighty GOD. How beautiful the great poet of Persia, Saadi Shirazi, describe it; “Laudation to the GOD of majesty and glory obedience to him is cause of approach and gratitude in increase of benefits. Every inhalation of the breath prolongs life and expiration of it, gladdens our nature. Wherefore every breath confers two benefits and for every benefit gratitude is due. Whose hand and tongue is capable to fulfill the obligation of thanks to him?”

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ABSTRACT

Drucker considers innovation as being the specific instrument of entrepreneurship: “the act that endows resources with a new capacity to create wealth” (Drucker, 1999). Schumpeter develops important ideas with regards to innovation as a source of economic change (Schumpeter, 1928; Schumpeter, 1942; Schumpeter, 1947) and technological innovation as a source of business cycle (Schumpeter, 1934; Schumpeter and Fels, 1939). He also puts entrepreneur (Schumpeter, 1934) and later the larger firm (Schumpeter, 1942) at the center of the innovation process. Bailetti (2012) defines technology based entrepreneurship as “an investment in a project that assembles and deploys specialized individuals and heterogeneous assets that are intricately related to advances in scientific and technological knowledge for the purpose of creating and capturing value for a firm.” The importance of technology based entrepreneurship is addressed by literature in one way or other. The technology as a tool in entrepreneurs’ hand is a mean to accelerate the growth of innovation system of the country in one hand and enhance the welfare of human being in other hand through economic growth.

The study of the available literature on entrepreneurship suggests a lack of study on technology based entrepreneurship in developing countries. Whilst there is not an agreed and concrete definition for technology entrepreneurship, there is general recognition of the need to look closely at the characteristics and behavior of these enterprises, especially in view of their perceived importance in economic growth and job creation. The research on various aspect of this type of entrepreneurship is necessary especially in developing countries. The researcher for this study is deeply motivated from the importance of the technology based entrepreneurship and their potential for economic growth of the country. The study is done in two countries of Islamic Republic of Iran and Republic of India. The focus of the research is in two regions in both countries where the homogeneity of the environment could assure the reliable finding for the research. The Tehran and Capital region in Iran and Delhi and National Capital Region in India is taken under study. The study focused on entrepreneurs. The sample includes entrepreneurs who run their technology based business as a SMEs form of enterprises. They are mostly CEO, CO of SMEs. The sample size is 120 received complete questionnaires from the personal meeting with

every entrepreneur who run the technology based firm (every country has got sample size of 120 each)

The researcher used mixed methodology including various qualitative and quantitative techniques in order to fulfill the research objectives. The first step was to develop the questionnaire. The exploratory factor analysis (EFA) and confirmatory factor analysis (CFA) are applied to find out the important success factor in technology based entrepreneurship in Iran and India. Interpretive Structural Modeling (ISM) is used to find out the interrelationship between the group factors, technology and performance of the technology based entrepreneurial firms in the research. Structural Equation Modeling (SEM) is further used in order to quantify the model that is developed through ISM methodology. The success factor index (SFI) is developed on the basis of surveyed technology based entrepreneurs through questionnaire methodology. The proper approach to develop the SFI is adopted from a careful literature review on index development. Finally case study approach is adopted to validate the SFI in each country.

There are four objective of the research. The research is started by an extensive review of literature on the identified success factors for entrepreneurship. These factors are confirmed through pilot studies and expert opinion in Iran and India. The first and second objectives are to identify the success factors in technology based entrepreneurship and their relative importance in each country and further to identify the similarities and differences in Iran and India. The first two objectives are mostly looking at macro level and focus at the technology entrepreneurship as a whole. The EFA and CFA are used in order to satisfy the first objective. ISM followed by SEM is used to fulfill the second objective. The result suggest the factors which are having more contribution while others get relatively less contribution towards success of technology entrepreneurship in each country. Further analysis reveals the weakness of some group factors towards the success of technology based entrepreneurship. These results reveal a good insight on what is shortcoming at macro level.

In brief it seems that in entrepreneur's factor, the innovation which has the root in creative imitation is favoring the technology based entrepreneur in both counties. Unfortunately the risk taking propensity is not really favoring Iranian entrepreneurs. The communication of the entrepreneur in India is the least favoring factor. In both countries mostly market oriented strategies are favoring the entrepreneurs and those of

more technology development strategies are having less contribution. Some initiatives from environmental player specially those of government to nurture the entrepreneurship is affecting favorably but still the direct influences of the government and some other policies needs to play more favorable role. The Networks and alliances are not really favoring the entrepreneurs and probably are mostly of luxury bodies in the industry. While Iranian technology entrepreneur seem to enjoy more of the customers and market, Indian Technology entrepreneurs are mostly favored by the competition in the market. Both technology entrepreneur in Iran and India are claim to be favored by their managerial capabilities. Although Iranian entrepreneurs believe the cross functional team of their firms help them to perform better the Indian technology entrepreneurs are not. Entrepreneurs in both countries do not believe that firms' location is really favoring their performance. The most important difference is the contribution of Technology of the firms toward its success.

The technology of the firms does not contribute to success of the technology based entrepreneurship in Iran. The technology of the firms does have a negative contribution (that is unfavorable impact) on success of the technology based entrepreneurship in India. It could be due to long term return on technology investment whereas entrepreneurs are mostly interested in short term return on their investments. Strategy factors do not have a significant contribution in success of entrepreneurs. Organization factor is the only group factor which has a significant contribution with similar range of influence in success of entrepreneurs in Iran and India. There is a real gap between the available resources, energies and potentials in both country to lead the entrepreneurs towards getting success but the only real contributor is organization factor which is having comparably low effect. It indicates that although the fundamental factors in the model are having high efficiency but still lacks effectiveness. It might primary addressed by higher authority of the countries who deals with entrepreneurship growth and promotion.

The other two objectives of the research are to develop a SFI for the entrepreneur in technology based entrepreneurial firms and further to examine the relation between the SFI of the entrepreneur and the performance of the technology based entrepreneurial firm. The last two objectives are mostly micro level in nature. Two separate SFI are developed for technology based entrepreneurship in Iran and India. The output value of

SFI suggest to a specific firm on the strengths, weaknesses, opportunities and threat that she faces. Therefore the entrepreneurs would be able to look at possible solution towards the improvement of the firm's performance. The result of the SFI could suggest a benchmark that compares various firms. The case study approach is used to fulfill the last objective of the research. Ten cases of technology based entrepreneurship in each country are studied. The SWOT analysis based on SFI of each firm is conducted. Finally the results of SFI and performance of the firm is tested using Pearson correlation. The result shows a high correlation between firm's performance and developed SFIs.

Key words:

Technology based entrepreneurship, Success factors, SMEs, Iran, India, Exploratory factor analysis (EFA), Confirmatory factor analysis (CFA), Interpretive structural modeling (ISM), Success index factor (SFI), Case study.

CONTENTS

	Page
Dedication	ii
Certificate	iii
Acknowledgments	iv
Abstract	vii
Contents	xi
List of Exhibits	xiii
List of Tables	xvi
 Chapter 1 Introduction	 1
1.1 Background	1
1.2 Technology Based Entrepreneurship in Iran and India	2
1.3 Research Questions	4
1.4 Research Objectives	5
1.5 Chapterization Plan	6
 Chapter 2 Literature Review	 8
2.1 Entrepreneurship	8
2.2 Theories of Entrepreneurship	9
2.3 Technology	16
2.4 Technology Based Entrepreneurship	18
2.5 SMEs and Entrepreneurship	20
2.6 Firm's performance	20
2.7 Entrepreneurs' Success Factors	22
2.8 Concluding Remarks	40
 Chapter 3 Research Methodology	 46
3.1 Research Design	47
3.2 Questionnaire Development	48
3.3 Sample Selection and Data Collection	52
3.4 Statistical Techniques and Analysis	54
3.5 Scope	54
 Chapter 4 Success Factors in Technology Based Entrepreneurship and Their Relative Importance	 59
4.1 Entrepreneur's Factors and Their Relative Importance	60
4.2 Strategy Factors and Their Relative Importance	79
4.3 Environmental Factors and Their Relative importance	87
4.4 Market Factors and Their Relative Importance	99
4.5 Organizational Factors and Their Relative Importance	109
4.6 Concluding Remarks	119

Chapter 5	Similarities and differences in technology based entrepreneurship in Iran and India	120
5.1	System Modeling of Success Factors for Technology Based Entrepreneurship in Iran	121
5.2	System Modeling of Success Factors for Technology Based Entrepreneurship in India	129
5.3	Structural Equation Modeling for Success Factors of Technology Based Entrepreneurship in Iran	135
5.4	Structural Equation Modeling for Success Factors of Technology Based Entrepreneurship in India	139
5.5	Technology Orientation and Performance of the Technology Based Entrepreneurship	144
5.6	Concluding Remarks	159
Chapter 6	Success Factors Index (SFI)	161
6.1	SFI in Iran	164
6.2	SFI in India	172
6.3	Concluding Remarks	179
Chapter 7	SFI and the entrepreneurship performance	180
7.1	Case Study of Technology Based Entrepreneurial Firms in Iran	181
7.2	Case Studies of Technology Based Entrepreneurial Firms in India	212
7.3	The correlation between performance and the SFI	237
7.4	Concluding Remarks	238
Chapter 8	Conclusion	239
8.1	Summary	239
8.2	Conclusions	251
8.3	Recommendations	253
8.4	Limitations	254
8.5	Scope for Further Research	254
9	References	255
10	Appendix	274

LIST OF EXHIBITS

	Page
1.1: Chapterization of the Thesis	7
2.1: The Entrepreneurial Process and GEM Operational Definition	9
2.2: Variable in New Venture Creation (Gartner 1985)	15
3.1 Flow of the Research	46
3.2 Tools and Techniques Used for the Research	48
3.3 Article Publishing Trend for Iran and India	57
4.1: Scree Plot for Entrepreneur's Factor in Iran	63
4.2: Path Analysis Model	66
4.3: Confirmatory factor analysis (CFA)	67
4.4: Structural Equation Model (SEM)	68
4.5: A General Structural Equation Modeling	72
4.6: CFA Model for Entrepreneur's Factors in Iran	73
4.7: Scree Plot for Entrepreneur's Factors in India	75
4.8: CFA Model for Entrepreneur's Factors in India	79
4.9: Scree Plot for Strategy Factors in Iran	81
4.10: CFA Model of Strategy Factors in Iran	83
4.11: Scree Plot for Strategy Factors in India	84
4.12: CFA Model for Strategy Factors in India	87
4.13: Scree Plot for Environmental Factors in Iran	89
4.14: CFA Model of Environmental Factors in Iran	93
4.15: Scree Plot for Environmental Factors in India	95
4.16: CFA Model for Environmental Factors in India	99
4.17 Scree Plot for Market Factors in Iran	101
4.18 CFA Model for Market Factors in Iran	104
4.19 Scree Plot for Market Factors in India	106
4.20: CFA Model for Market Factors in India	109
4.21: Scree Plot for Organizational Factors in Iran	111
4.22: CFA Model for Organizational Factors in Iran	114
4.23: Scree Plot for Organization related Factor in India	116

4.24: CFA Model of Organizational Factors in India	119
5.1: Interpretive Structural Model in Iran	128
5.2: MICMAC (Driver-Dependency Power) Analysis for Iran	129
5.3: Interpretive Structural Modeling for India	133
5.4: MICMAC (Driver - Dependency Power) Analysis for India	134
5.5: SEM Based Model in Iran	137
5.6: Revised SEM Based Model in Iran	138
5.7: SEM Based Model in India	142
5.8: Revised SEM based model in India	143
5.9: Indicators Importance for Technology Clusters in Iran	146
5.10: Indicators Importance for Technology Clusters in India	147
5.11 Indicators Importance for Performance Clusters in Iran	149
5.12: Indicators Importance for Performance Clusters in India	150
5.13: Hypothesis Testing Output Framework	158
7.1: SWOT Analysis of Case A	185
7.2: SWOT Analysis of Case B	189
7.3: SWOT Analysis of Case C	192
7.4: SWOT Analysis of Case D	195
7.5: SWOT Analysis of Case E	197
7.6: SWOT Analysis of Case F	201
7.7: SWOT Analysis of Case G	204
7.8: SWOT Analysis of Case H	206
7.9: SWOT Analysis or Case I	209
7.10: SWOT Analysis of Case J	211
7.11: SWOT Analysis of Case K	215
7.12: SWOT Analysis of Case K	217
7.13: SWOT Analysis of Case M	219
7.14: SWOT Analysis of Case N	221
7.15: SWOT Analysis of Case O	224
7.16: SWOT Analysis of Case P	227
7.17: SWOT Analysis of Case Q	229
7.18: SWOT Analysis of Case R	232

7.19: SWOT Analysis of Case S	234
7.20: SWOT Analysis of Case T	237
8.1: Holistic View on Contributors to Technology based Entrepreneurship in Iran	249
8.2: Holistic View on Contributors to Technology based Entrepreneurship in India	249

LIST OF TABLES

	Page
2.1 Literature Review, Entrepreneurship Success Factors	40
3.1 Countries Ranked Based on Documents (Published Articles)	56
3.2 Comparison of Economy Indicators in Iran and India	58
4.1: KMO and Bartlett's Test for Entrepreneur's Factor in Iran	62
4.2: Total Variance Explained for Entrepreneur's Factor in Iran	63
4.3: Rotated Component Matrix for Entrepreneur's Factor in Iran	65
4.4: Rotated Component Matrix for Entrepreneur's Factor in Iran	65
4.5: Fit Indices for the Entrepreneurial Factor in Iran	71
4.6: Standardized Factor Loadings for Entrepreneurial Factor in Iran	71
4.7: KMO and Bartlett's Test for Entrepreneur's Factors in India	74
4.8: Total Variance Explained for Entrepreneur's Factors in India	75
4.9: Rotated Component Matrix for Entrepreneur's Factor in India	77
4.10: Component Matrix for Entrepreneur's Factor in Iran	77
4.11: Fit Indices for the Entrepreneur's Factors in India	78
4.12: Standardized Factor Loadings for Entrepreneur's Factors in India	78
4.13: KMO and Bartlett's Test Strategy Factors in Iran	80
4.14: Total Variance Explained for Strategy Factors in Iran	80
4.15: Rotated Component Matrix Strategy Factors in Iran	81
4.16: Component factors for Strategy Factors in Iran	82
4.17: Fit Indices for the Entrepreneurial Factors in Iran	82
4.18: Standardized Regression Weights for Strategy Factors in Iran	82
4.19: KMO and Bartlett's Test for Strategy Factors in India	84
4.20: Total Variance Explained for Strategy Factors in India	84
4.21: Rotated Component Matrix for Strategy Factors in India	85
4.22: Component Factors for Strategy Factors in India	85
4.23: Fit Indices for the Entrepreneurial Factors in India	86
4.24: Standardized Factor Loadings for Strategy Factors in India	86
4.25: KMO and Bartlett's Test for Environmental Factors in Iran	88
4.26: Total Variance Explained for Environmental Factors in Iran	88
4.27: Rotated Component Matrix Environmental Factors in Iran	90

4.28: Component Factor for Environmental Factors in Iran	91
4.29: Fit Indices for the Environmental Factors in Iran	91
4.30: Standardized Regression Weights for Environmental Factors in Iran	92
4.31: KMO and Bartlett's Test Environmental Factors in India	94
4.32: Total Variance Explained for Environmental Factors in India	94
4.33: Rotated Component Matrix Environmental Factors in India	96
4.34: Component Factors for Environmental Factors in India	97
4.35: Fit Indices for the Environmental Factors in India	97
4.36: Standardized Factor Loadings for Environmental Factors in India	98
4.37 KMO and Bartlett's Test for Market Factors in Iran	100
4.38: Total Variance Explained for Market Factors in Iran	100
4.39: Rotated Component Matrix for Market Factors in Iran	102
4.40: Component Factors for Market Factors in Iran	102
4.41: Fit Indices for the Market Factors in Iran	102
4.42: Standardized Factor Loadings for Market Factors in Iran	103
4.43: KMO and Bartlett's Test for Market Factors in India	105
4.44: Total Variance Explained for Market Factors in India	105
4.45: Rotated component matrix Market Factors in India	107
4.46: Component Factors for Market Factors in Iran	107
4.47: Fit Indices for the Market Factors in India	107
4.48: Standardized Factor Loadings for Market Factors in India	108
4.49: KMO and Bartlett's Test Organizational Factors in Iran	110
4.50: Total Variance Explained for Organizational Factors in Iran	110
4.51: Rotated Component Matrix for Organizational Factor in Iran	112
4.52: Component Factors for Organizational Factor in Iran	112
4.53: Fit Indices for the Organizational Factors in Iran	113
4.54: Standardized Factor Loadings for Organizational Factors in Iran	113
4.55: KMO and Bartlett's Test for Organizational Factor in India	115
4.56: Total Variance Explained for Organizational Factors in India	115
4.57: Rotated Component Matrix for Organization related Factor in India	117
4.58: Component Factors for Organizational Factors in India	117
4.59: Fit Indices for the Organizational Factors in India	118
4.60: Standardized Factor Loadings for Organizational Factors in India	118

5.1: Component Matrix for Confirming Group Distinction of Factors in Iran	120
5.2: Component Matrix for Confirming Group Distinction of Factors in India	121
5.3: Initial Formulation of SSIM in Iran	125
5.4: Initial Reachability Matrix in Iran	125
5.5: Revised Reachability Matrix in Iran	126
5.6: Level Partition of Reachability Matrix in Iran	126
5.7: Level Partition of Reachability Matrix for Irritation 1 in Iran	127
5.8: Level Partition of Reachability Matrix for Irritation 2 in Iran	127
5.9: Level Partition of Reachability Matrix for Irritation 3 in Iran	127
5.10: Level Partition of Reachability Matrix for Irritation 4 in Iran	127
5.11: Initial Formulation of SSIM in India	129
5.12: Initial Reachability Matrix in India	130
5.13: Revised Reachability Matrix in India	130
5.14: Level Partition of Reachability Matrix in India	131
5.15: Level Partition of Reachability Matrix for Irritation 1 in India	131
5.16: Level Partition of Reachability Matrix for Irritation 2 in India	131
5.17: Level Partition of Reachability Matrix for Irritation 3 in India	131
5.18: Level Partition of Reachability Matrix for Irritation 4 in India	132
5.19: Fit Indices for SEM in Iran	135
5.20: Standardized Regression Weights for SEM based Model in Iran	136
5.21: Fit Indices for SEM in India	139
5.22: Standardized Regression Weights for SEM based model in India	139
5.23: Cluster Size for Technology Clusters in Iran	145
5.24: Cluster Size for Technology Clusters in India	146
5.25: Cluster Size for Performance Clusters in Iran	148
5.26: Cluster size for Performance Clusters in India	149
5.27: Independent Samples Test for Null Hypothesis H01	151
5.28: Independent Samples Test for Null Hypothesis H02	151
5.29: Independent Samples Test for Null Hypothesis H03	152
5.30: Independent Samples Test for Null Hypothesis H04	152
5.31: Independent Samples Test for Null Hypothesis H05	153
5.32: Independent Samples Test for Null Hypothesis H05a	154
5.33: Independent Samples Test for Null Hypothesis H05b	154

5.34: Independent Samples Test for Null Hypothesis H06	155
5.35: Independent Samples Test for Null Hypothesis H06a	155
5.36: Independent Samples Test for Null Hypothesis H06b	156
6.1: Clusters for Components for Entrepreneur's Factors in Iran	165
6.2: Clusters for Components for Strategy Factors in Iran	166
6.3: Clusters for Components for Environmental Factors in Iran	167
6.4: Clusters for Components for Market Factors in Iran	168
6.5: Clusters for Components for Organizational Factors in Iran	168
6.6: Clusters for Group Factors in Iran	169
6.7: Calculation of SFI weights, Iran	170
6.8: Clusters for Components for Entrepreneur's Factors in India	172
6.9: Clusters for Components for Strategy Factors in India	173
6.10: Clusters for Components for Environmental Factors in India	174
6.11: Clusters for Components for Market Factors in India	174
6.12: Clusters for Components for Organizational Factors in India	175
6.13: Clusters for Group Factors for in India	176
6.14: Calculation of SFI weights in India	177
6.15: Independent Samples Test for Null Hypothesis H07	178
7.1: Calculation of SFI for Case B	188
7.2: Calculation of SFI for Case C	191
7.3: Calculation of SFI for Case D	194
7.4: Calculation of SFI for Case E	197
7.5: Calculation of SFI for Case F	200
7.6: Calculation of SFI for Case G	203
7.7: Calculation of SFI for Case H	206
7.8: Calculation of SFI for Case I	208
7.9: Calculation of SFI for Case J	211
7.10: Calculation of SFI for Case K	214
7.11: Calculation of SFI for Case K	216
7.12: Calculation of SFI for Case M	218
7.13: Calculation of SFI for Case N	221
7.14: Calculation of SFI for Case O	223
7.15: Calculation of SFI for Case P	226

7.16: Calculation of SFI for Case Q	229
7.17: Calculation of SFI for Case R	231
7.18: Calculation of SFI for Case S	233
7.19: Calculation of SFI for Case T	236
7.20 Correlations between SFI in Iran and firm's performance	238
7.21 Correlations between SFI in India and Firm's performance	238