

MEDIATING ROLE OF EMPLOYEE RETENTION ON THE RELATIONSHIP BETWEEN EMPLOYEE ENGAGEMENT AND EMPLOYEE PERFORMANCE: AN EMPIRICAL STUDY

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Abstract:

Managing for employee retention involves strategic employees actions to keep motivated and focused so they elect to remain employed and fully productive for benefit organization. the of the comprehensive employee retention program can play a vital role in both attracting and retaining key employees, as well as in reducing turnover and its related costs. All of these contribute to an organization's productivity overall **business** and performance. The other objective is analyze the critical factor which can affect the level of retention & engagement of employees with the help of literature review. For the current article the researchers reviewed relevant research 30 literature comprising employee retention& engagement concepts and practices amply. The findings of the study like good training & development, compensation structures, autonomy, quality of work life, work polices and arrangements will lead the managers and management to a new dimension with holistic approach in the field of employee retention & engagement

Introduction:

Retention of productive employees is a major concern of HR professionals and business executives. It is more efficient to retain a quality employee than to recruit, train and orient a replacement employee of the same quality. Fairness and transparency are fundamental yet powerful concepts that can make a lasting impression on employees. Employee job satisfaction and engagement factors are key ingredients of employee retention programs. The importance of addressing these factors is obvious, but actually doing so takes time and these tasks are often left for another day.

However, the payoff of focusing on employee retention—in terms of increased performance, productivity, employee morale and quality of work, plus a reduction in both turnover and employee-related problems—is well worth the time and financial investment. The bottom line is that by managing for employee retention, organizations will retain talented and motivated employees who truly want to be a part of the company and who are focused on contributing to the organization's overall success. A critical issue that organizations face is how to retain the employees they want to keep. Companies must anticipate impending shortages of overall talent as well as a shortfall of employees with the specialized competencies needed to stay ahead competition. the **Employers** systematically manage employee retention both in good times and in bad-will stand a greater chance of weathering such shortages. Retention/turnover was the top workforce management challenge cited by 47% of HR professionals.Turnover costs can have significant negative impact on a company's performance; however, not all turnover is harmful. For example, a new replacement hire may turn out to be more productive or more skilled than his or her predecessor.

2. Review of Literature:

2.1 EMPLOYEE ENGAGEMENT:

A Study explores employee engagement as a motivating, dedicating feeling to accomplish a task efficiently^[5]. The authorsexamine the Kahn's model and the findings of that model supported that the good working conditions, safety measures, time of work and positivity in the organization is directly linked with employee engagement^[6]. A Study define engagement as the extension of commitment ^[7]. A research elaborated employee

engagement more extensively and divide engagement in to two areas one is engagement with job and other is engagement with the organization^[8]. The study describes employee engagement as" long lasting, positively and motivational approach of employees that results in high level of work involvement with passion and dedication^[9]. A study define Employee Engagement as individual cognitive state and his positive behavior and emotions that lead him to work in tandem with organizationgoals^[10].

2.2 DRIVERS OF EMPLOYEE ENGAGEMENT

A study stated that a study on factors of employee engagement in food industry in Jordan hotel industry the key point reveled after analysis the development opportunities, communication channels, rewards recognition & growth, employer's concern & care in industry have a great impact on employee engagement^[11]. A research analyzed that relationships among peers & subordinates and team partners, employees status, development options, iob description, support managers, trust & loyalty has positively related engagement^[12]. employee A study concluded their study that the level of employee engagement is affected by varous factors like autonomy, clarity in roles, and unity of direction has significant relationship with employee engagement^[13].

A study done in hotel industry in Bali analyzed job specification & support from top managers correlated with has highly employee engagement [14]. A research concluded that challenging roles, nature of work, and quality of work life, communication, and appraisal to high level of employee engagement^[15]. In a study done the results reveled that resources for job, description and job specification have the strong relationship which decide the level of engagement and retention of employees [16]. A result of the study stated that good human resource practices will lead to enhance the level of engagement [17]. A study stated in a study conducted an internet survey from IT sector & Banking sector. They had revealed that job specifications, key role, challenging nature of work, equity, climate of work are closely linked with employee engagement [18]. In a study done with convenience sampling of 310 samples studied that support from immediate

boss, equity level in office, non-monetary rewards are significantly related to employee engagement^[19]. With the analysis of detailed literature stated that level of motivation, work involvement, support from organization, performance appraisal, quality of work life have positively linked with behavior of employees and their engagement^[20].

A study revealed that culture of organization, communication, integrity of goals, autonomy is the significant predictors of employee engagement ^[21]. A study stated communication ease and personality traits are the factors which decide the level of retention^[22]. A research states in a study that policy of recruitment & selection, job description, development opportunities, styles of leadership, empowerment, performance appraisals, salary structures, work life balance, health & safety arrangement are highly correlated with level of employee engagement^[23]. In a study conducted on 279 employee of restaurant in Southern Norway examined the autonomy in job, decision making freedom, role clarity, training & development opportunities are correlated with level of engagement [24]. A research concluded that support from coemployee's of iob, workers, nature participation in management is highly correlated with employee engagement [25]. Asurvey, concluded that leadership styles, behavior of supervisor & trust and loyalty has a great impact on employee engagement [26]. A study Conclude that level of employee engagement in highly influenced by the nature of job, communication ease, leadership styles, and trust level and job autonomy [27]. A research analyzed that forces for employee engagement are leadership styles, team work, nature of work, support form supervisor, empowerment, quality of work life, monetary and non-monetary rewards have significantly related with engagement. The drivers of engagement are opportunity to grow, effective communication, training & development facility, work design are some crucial factors which are highly correlated with engagement of employees .The authors concluded that growth opportunities, quality of work life, working conditions, role clarity significantly associated with level of employee job engagement [29]. Authors in research conducted suggested that level of job satisfaction, level of involvement in decision making, opportunity to grow are the strongest drivers of employee's engagement [30]. A study extracted a positive relationship results between iob description, performance support from supervisor appraisal, employee engagement is highly correlated The results of a study stated leadership quality has an impact of engagement. They stated that health benefits, empowerment, training & development, salary structure, communication, empowerment, recreational activities are strongly related to employee According Kadiresan engagement. to V, Khuan W.S, Arumugam T(2019)Employee engagement has been extensively researched lately as it delivers a positive business outcome. Due to the complex competition prevailing in the automotive industry, maintaining a high-level engagement among the employees is important for long term business performance. The level of employee engagement can be improved by identifying its drivers.

According to R Mathai, T Arumugam (2020) The profile and skill of the employees can have a difference in learning, so this study mainly attempts to organize the gender difference and classification of the employees profiles and its association on E-learning has been assessed in this study. According AK Subramani, NA Jan, T Arumugam(2019) the study is to examine the relationship between critical success factors oftotal quality management implementation and business performance. Α survey method collection was adopted to collect primary data from small scale manufacturing organisations in a regional manufacturing cluster. The twostep structural equation modelling approach is followed to examine the relationship between critical success factors of total quality management implementation and business performance.

According to V Kadiresan, T Arumugam, (2019) The present research aims investigating the impact of human resource (HR) practices on employee retention with the mediator effect of Leader-Member exchange (LMX) among IT employees in Malaysia. The present research attempts to narrow the research gaps by hypothesizing that HR practices (job security, work-life balance and

training opportunities) significantly influence employee retention.

According to T Arumugam, B Jayakrishnan (2020) This study focuses on customers' various shopping motives through Omnichannel adoption and level of attainment of shopping motives. Customers adopt different channels and integrate the evidence to reach the optimal shopping motives. According to SS Hameed, S Madhavan, T ArumugamThe major focal point of the present research is to recognize the effect of sports celebrity adson the purchase intention of the buyers. Both high involvement products and lowinvolvement products have included in the research.

According to AK Subramani, NA Jan, T Arumugam(2019) According to Background Indian Pharmaceutical industry has significant growth in recent decades andfaces hyper competition in the local and international market. Aim The primary objective ofthis research is to explore the medical representatives' perception towards motivational measures implemented selected pharma companies, Chennai city. According to A Thangaraja (2019) the consumers among the available technology are taken to the stage wherethey presume to be a non-technical person. There are many factors influencing theacceptance of technology. According to A Thangaraja (2019) Marketing intelligence is â€ea continuing and interacting structure of people, equipment and procedures that, in combination, gather, sort, analyse and distribute pertinent, timely and accurate information for use by marketing decision makers to improve their marketing planning, implementation and controlâ€ Although many professionals do much of their own information gathering and analysis, there still needs to be a clear focal point of the Marketing Intelligence System responsibility.

2.3 EMPLOYEE RETENTION

A study concluded that for retaining good talented work force the organization has to create a positive environment for conducive working^[33]. A study analyzed that good and successful organizations do respect their employees and try to make policies more flexible for betterment of employees so that level of employee engagement can be achieved^[34]. The result of a study showed that retention is the process in which employer takes steps to prevent the job switching of their key employees ^[35]. A studydescribe that retention is an effort by which an employer make some good policies to retain talented employees for achieve the organization goals andsuccess^[36]. A study concluded that talented work force has high worth to the organizations due their expertise over the knowledge, their skills & experience. A study stated that organization treats them as assets. Most of the previous studies agreed upon that good retention strategies leads to greater time span in the organization and also motivates them to do their jobdedicatedly

2.4 Drivers of Employee Retention and Turnover:

Devising effective employee retention strategies requires organizations to understand both why employees leave organizations and why they stay.

Why employees leave

Employees leave organizations for all sorts of reasons—Some find a different job, some go back to school, some follow a spouse who has been transferred to a different location, some retire, some get angry about a work-related or personal issue and quit on impulse, and some simply decide they no longer need a job (these categories of departure are referred to as "voluntary turnover"). Still others get fired or laid off by the organization (referred as "involuntary to turnover"). Generally, an individual will stay with an organization if the pay, working conditions, developmental opportunities, etc., are equal to or greater than the contributions (e.g., time and effort) required of the employee. These judgments are affected by both the individual's desire to leave the organization and the ease with which he or she could depart. Studies have shown that employees typically follow four primary paths to turnover, each of which has different implications for an organization:

- Employee dissatisfaction. Attack this issue with traditional retention strategies such as monitoring workplace attitudes and addressing the drivers of turnover.
- Better alternatives. Retain employees by ensuring that the organization is competitive in terms of rewards, developmental opportunities and the

- quality of the work environment. Be prepared to deal with external offers for valued employees.
- A planned change. Some employees may have a predetermined plan to quit (e.g., if their spouse becomes pregnant, if they get a job advancement opportunity, if they are accepted into a degree program). However, increasing rewards tied to tenure or in response to employee needs may alter the plans of some employees. For example, if a company is seeing exits based on family-related plans, more generous parental leave and family-friendly policies may help reduce the impact.
- negative experience. Employees sometimes leave on impulse, without any plan for the future. Generally, this is the result of a negative response to a specific action (e.g., being passed over for a promotion or experiencing difficulties with a supervisor). Analyze the types and frequencies of workrelated issues that are driving employees to leave. Provide training to minimize prevalent negative interactions (e.g., harassment, bullying, or unfair and inconsistent treatment) and provide support mechanisms to deal with those problems (e.g., conflict resolution procedures, alternative work schedules or employee assistance programs).

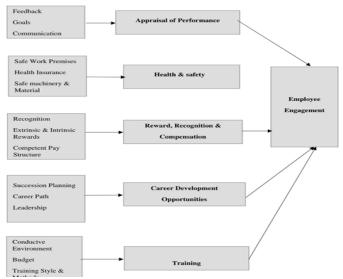
3.1 Objectives of the Study:

The current study has two objectives:

- a. To identify the meaning of retention and engagement of employees in the organization as well as its significance.
- b. To analyze the factors which can affect the level of retention & engagement of employees with the help of literature review.

4.1 Conceptual Frame and strategies:

Practices that contribute to retention arise in all areas of HR, and all roles within an organization will need to work together to develop and implement multifaceted retention strategies. Broad-based and targeted strategies, or a combination of both, may be appropriate depending on the circumstances.



(Source: By Researcher)

Figure 1. Conceptual Employee Engagement & Retention Model

Effective practices

Effective practices in a number of areas can be especially powerful in enabling an organization to achieve its retention goals. These areas include:

- Recruitment. Recruitment practices can strongly influence turnover, and considerable research shows that presenting applicants with a realistic job preview during the recruitment process has a positive effect on retention of those new hires.
- Socialization. Turnover is often high among new employees. Socialization practices—delivered via a strategic onboarding and assimilation program—can help new hires become embedded in the company and thus more likely to stay. These practices include shared and individualized learning experiences, formal informal activities that help people get know one another, and assignment of more-seasoned employees as role models for new hires.
- Training and development. If employees are not given opportunities to continually update their skills, they are more inclined to leave. .
- Compensation and rewards. Pay levels and satisfaction are only modest predictors of an employee's decision to leave the organization; however, a company has three possible strategies:

- 1. Lead the market with respect to compensation and rewards. .
 2. Tailor rewards to individual needs in a person-based pay structure.
 3. Explicitly link rewards to retention (e.g., tie vacation hours to seniority, offer retention bonuses or stock options to longer-term employees, or link defined benefit plan payouts to years of service).
- Supervision. Several studies have suggested that fair treatment by a supervisor is the most important determinant of retention. This would lead a company to focus on supervisory and management development and communication skill-building.
- Employee engagement. Engaged employees are satisfied with their jobs, enjoy their work and the organization, believe that their job is important, take pride in their company, and believe that their employer values their contributions. One study found that highly engaged employees were five times less likely to quit than employees who were not engaged

Broad-based strategies

Broad-based strategies are directed at the entire organization or at large subsystems and are intended to address overall retention rates. Examples include providing across-the-board market-based salary increases, changing the

hiring process to incorporate retention-related criteria and improving the work environment. The data needed to help a company determine which broad-based strategies to implement typically come from three places:

- Retention research can shed valuable light on the primary drivers of turnover. Attendance at conferences and membership in professional associations such as SHRM can provide access to the latest research on turnover and retention.
- Effective practices encompass the strategies that other organizations are using and are finding effective or ineffective.
- Benchmarking surveys can provide information about how a company compares to competitors on issues such as pay, benefits, bonus plans and the like.

Targeted strategies

Targeted strategies are based on data from several key sources, including organizational exit interviews, post-exit interviews, interviews, employee focus groups, predictive turnover studies and other qualitative studies. This information can lead an organization to determine more specifically where a problem exists and to develop highly relevant and linked strategies to address the issue. For example, if professionals are departing organization in significant numbers, a company could review common reasons that women give for leaving a company and develop strategies to specifically deal with this group of employees.

5. RECOMMENDATIONS

The studies in this study revealed that in 21st century it has been a very crucial and difficult task to manage and retain the employees. So the management need to know and understand the perception and mobility of employees dynamically because preference can change rapidly. So proper attention has to be made to reduce employee turnover rates by applying new and competent retention strategies all the time. As said by Cappelliit's not about managing a dam but to manage the entire river. So the HR professionals must have a concise vision and mission with a continuous flow of strategies and people thought so knowledge is being transferred have to assess the need of employees. After the analysis of various studies on employee retention&

engagement some points might be consider for retention & engagement of employees as under:

- Actively promote organizational effectiveness, reputation and values & ethics
- Clear paths to advancements
- Ongoing Training & Education
- Offer the Rights Benefits

7. CONCLUSION

the integration of key employee With engagement & retention along with the psychological state wellbeing may facilitate a very useful tool for achieving and improving organizations success. The existing studies show the different aspects of employee engagement and retention. After analyzing various research papers a definition of engaged and retained employee came out that an engaged employee is one who is motivated, highly dedicated, ambitious, strive to for an extra edge and always lead by the example to others and align his goals toward organizational goals. The studies concerned with employee engagement revels that factors like level of employee engagement in highly correlated the nature of job, communication ease, leadership styles, and trust level and job autonomy, level of motivation, work involvement, support from organization, performance appraisal, quality of work life, level of involvement in decision making, opportunity to grow are the strongest drivers of employee's engagement. The various studies on employee retention postulated some aspects of it mainly includes level of training & development facilities, culture of organization, leadership quality, feedbacks, compensation structures determines the tenure of the talented employees certainly affects the tenure employees with dedication. In this era of tough competition it is on the card for the HR professionals to apply a mix and match of employee retention & engagement strategies to engage and retain talented workforce for longer period of time. For the future concern an Additional theory/practical approach has to be required to analyse and determines the various employee retain and engagement strategies. The HR strategies & practices analyzed in the study suggested and recommended for competitive edge for the organizations. This study will restoring and pilot further future

research and establish the significance HRM of practices and align them strategically for employee engagement & retention.

REFERENCES

- Tarique, I., & Schuler, R. S. (2010) Global talent management: Literature review, integrative framework, and suggestions for further research. Journal of World Business, 45, 122-133.doi:10.1016/j.jwb.2009.09.019.
- Chew J., Girardi, A., & Entrekin, L. (2005) "Retaining core staff: the impact of human resource practices of organization commitment", J. Comparat. Int. Manag.;8(2):23-42
- Hay, M. (2002) Strategies for survival in the war of talent. Career Development International, 7, 52-55. Doi: 10.1108/13620430210414883.
- Tims, M., Bakker, A. B., &Xanthopoulou, D. (2011) Do transformational leaders enhance their followers' daily work engagement? The Leadership Quarterly, 22, 121-131.doi:10.1016/j.leaqua.2010.12.011.
- Schaufeli, W. B., Salanova, M., Gonzalez-Roma, V., & Bakker, A. B. (2002) The measurement of engagement and burnout: A two sample confirmatory factor analytic approach. Journal of Happiness Studies, 3,71-92.
- Arumugam, T. (2016). The Indispensability of Information Technology in Marketing Intelligence System: A Conceptual Approach. IJSRD International Journal for Scientific Research & Development/Vol. 4, Issue 06,ISSN (online): 2321-0613, 118-121.
- Curtis, C.R., R.S. Upchurch and D.E. Severt, 2009. Employee motivation and organizational commitment: A comparison of tipped and nontipped restaurant employees. Int. J. Hospitality Tourism Admin., 10: 253-269.
- Darmon, R.Y., 1992. Effective Human Resource Management in the Sales Force. Quorum Books, Westport, CT., ISBN: 9780899306483, Pages: 312.
- Arumugam, T., Hameed, S. S., & Madhavan, S. (2020). Consumer

- Behaviour Varying Towards Low And High Involvement Products Even **Sports** Endorsed? Celebrity INTERNATIONAL *JOURNAL* OF**SCIENTIFIC** & **TECHNOLOGY VOLUME** RESEARCH 9. **ISSUE** 03,ISSN 2277-8616, 4848-4852.
- Employee engagement and retention in automotive industry in Malaysian context. Job stress as a moderatorTA
 Vimala Kadiresan International Journal of Engineering and Advanced Technology 8 (6S3), 2249.
- Fleisher, C.S., 2008. Using open source data in developing competitive and marketing intelligence. Eur. J. Market., 42: 852-866.
- Arumugam, T., Subramani, A. K., Jan, A., & Goute, A. K. (2019). "Exploring the Medical Representatives' Perception towards Motivational Measures Implemented by Selected Pharma Companies, Chennai City.". *Indian Journal of Public Health Research & Development 10, no. 12*, 6-13.
- Hatch, M.J., 2007. Organization Theory: Modern, Symbolic and Postmodern Perspectives. Afkar Publication, Tehran.
- HR practices and employee retention.
 Leader-member exchange (LMX) as a mediator TA Vimala Kadiresan International Journal of Engineering and Advanced Technology 8 (6S3), 618-622
- Arumugam, T., Vimala, K., Khuan, W. S., & Rasu, F. (2019). Employee Engagement and Retention in Automotive Industry in Malaysian Context. Job Stress as a Moderator. International Journal of Engineering and Advanced Technology (IJEAT), 607-617.
- Human Resource Information System, Human Resource Performance And Moderating Effect Of National And International Banks Of Bank Employees In Qatart Renju Mathai International Journal Of Research In Commerce, It & Management 7 (10), 34-38
- Huster, M., 2005. Marketing

- intelligence: A first mover advantage. Competitive Intell. Mag., 8: 13-17
- Impact of Psycho-Social Factors on Suicidal Ideation Among Adolescent Girls M Johns, P. and D.C. van Doren, 2010. Competitive intelligence in service marketing: A new approach with practical application. Market. Intell. Plann., 28: 551-570.
- Boselin Prabhu, SR & Sophia, S, 2013, 'Capacity based clustering model for dense wireless sensor networks', International Journal of Computer Science and Business Informatics, vol. 5, no. 1, pp. 1-10, ISSN: 1694-2108.
- Boselin Prabhu, SR & Sophia, S, 2013, 'Real-world applications of distributed clustering mechanism in dense wireless sensor networks', International Journal of Computing Communications and Networking, vol. 2, no. 4, pp. 99-105, ISSN: 2319-2720.
- Boselin Prabhu, SR & Sophia, S, 2013, 'An integrated distributed clustering algorithm for dense WSNs', International Journal of Computer Science and Business Informatics, vol. 8, no. 1, pp. 1-12, ISSN: 1694-2108.
- Boselin Prabhu, SR & Sophia, S, 2014, 'Modern cluster integration of advanced weapon system and wireless sensor based combat system', Scholars Journal of Engineering and Technology, vol. 2, no. 6A, pp. 786-794, ISSN: 2347-9523.
- Arumugam, Thangaraja. (2016). "The Indispensability of Information Technology in Marketing Intelligence System: A Conceptual Approach.".
 IJSRD International Journal for Scientific Research & Development/Vol. 4, Issue 06, 118-121.
- Kalantari, K., 2010. Process and Analyze the Data in Economic- Society Research. Farhange Saba Publication, Tehran
- Karim, N.H.A., 2010. The impact of work related variables on librarians organizational commitment and job satisfaction. Malaysian J. Library Inform. Sci., 15: 149-163.
- Arumugam, Thangaraja. (2016). An Evolution of Distributors' Marketing

- Intelligence System (DMIS) Among FMCG Distributors: A Conceptual Frame Work. *nternational Journal of Multidisciplinary Education and Research ISSN:* 2455-4588; *Impact Factor:* RJIF 5.12 www.educationjournal.in Volume 1; Issue 5, 11-13.
- Baker, J. J., Storbacka, K., & Brodie, R. J. (2019). Markets changing, changing markets: Institutional work as market shaping. *Marketing Theory*, 19(3), 301–328.
- Frösén, J., Luoma, J., Jaakkola, M., Tikkanen, H., & Aspara, J. (2016). What counts versus what can be counted: The complex interplay of market orientation and marketing performance measurement. *Journal of Marketing*, 80(3), 60–78.
- Hayati, B., Atefi, Y., & Ahearne, M. (2018). Sales force leadership during strategy implementation: A social network perspective. *Journal of the Academy of Marketing Science*, 46(4), 612–631.
- Arumugam, Thangaraja. (2016). FAST MOVING CONSUMER GOODS DISTRIBUTORS'SOURCE OF INFORMATION AND MARKETING INTELLIGENCE SYSTEM ON CUSTOMER FEEDBACK. *IJARIIE-ISSN(O)-2395-4396*, Vol-2 Issue-1, 833-837.
- Lackman, C., K. Saban and J. Lanasa, 2000. The contribution of market intelligence to tactical and strategic business decisions. Market. Intell. Plann., 18: 6-9.
- Matin, H.Z., G. Jandaghi, F.H. Karimi and A. Hamidizadeh, 2010. Relationship between interpersonal communication skills and organizational commitment (case study: Jahad Keshavarzi and University of Qom, Iran). Eur. J. Soc. Sci., 13: 387-398.
- Mochtar, K. and D. Arditi, 2001. Role of marketing intelligence in making pricing policy in construction. J. Manage. Eng., 17: 140-148.
- Arumugam, Thangaraja. (2014). Marketing Intelligence System Among

- Supermarkets in Tirunelveli City: An Empirical Study. *International Journal of Current Research Vol. 6, Issue, 05*, pp.6668-6670.
- Boselin Prabhu, SR & Sophia, S, 2015, 'Evaluation of clustering parameters in WSN fields using distributed zone-based approach', ASTM Journal of Testing and Evaluation, vol. 43, no. 06, pp. 01-13, ISSN : 0090-3973 (Annexure I) (Serial Number : 5410) IF – 0.279.
- Boselin Prabhu, SR & Sophia, S, 2013, 'Variable power energy efficient clustering for wireless sensor networks', Australian Journal of Basic and Applied Sciences, vol. 7, no. 7, pp. 423-434, ISSN: 1991-8178 (Annexure II) (Serial Number: 2095).
- Boselin Prabhu, SR & Sophia, S, 2013, 'A review of energy efficient clustering algorithm for connecting wireless sensor network fields', International Journal of Engineering Research and Technology, vol. 2, no. 4, pp. 477-481, ISSN: 2278-0181.
- Boselin Prabhu, SR & Sophia, S, 2014, 'A review of efficient information delivery and clustering for drip irrigation management using WSN', International Journal of Computer Science and Business Informatics, vol. 14, no. 3, pp. 1-13, ISSN: 1694-2108.
- Boselin Prabhu, SR & Sophia, S, 2015, 'Cluster integrated self-forming wireless sensor based system for intrusion detection and perimeter applications', defense International Journal of Computer Science and Business Informatics, vol. 15, no. 3, pp. 70-83, ISSN: 1694-2108.
- Nehmeh, R., 2009. What is organizational commitment, whyshould managers want it in their work force and is there any cost effective way to secureit? SMC Working Paper, Issue 5. http://www.swissmc.ch/Media/Ranya_Nehmeh_working_paper_05-2009.pdf.
- Nwokah, N.G. and F.E. Ondukwu, 2009. Competitive intelligence and marketing effectiveness incorporate organizations in Nigeria. Afr. J. Market. Manage., 1: 10-22.

- Arumugam, Thangaraja. (2016). The Role of Marketing Intelligence in Green Banking Practices – A Conceptual Approach. Imperial Journal of Interdisciplinary Research (IJIR) Vol-2, Issue-9, ISSN: 2454-1362 , 756-758.
- Pull Factors, Career Anchor And Turnover Of Academicians In Malaysian Higher Education TA Vimala Kadiresan Journal of International Business and Economics® 16 (4), 59-80
- Roe, S.J., 2010. Restaurant service employees motivation and organizational commitment: Shared gratuity versus independent gratuity environments. Proceedings of the 16th Students Research Graduate Conference, January 8. 2011. University of Nevada, Las Vegas
- Boselin Prabhu, SR & Sophia, S, 2015, 'Distributed clustering using enhanced hierarchical methodology for dense WSN fields', International Journal of Applied Engineering Research, vol. 10, no. 06, pp. 15581-15591, ISSN: 0973-4562 (Annexure II) (Serial Number: 8565).
- Boselin Prabhu, SR & Sophia, S, 2015, 'Issues in environmental pollution monitoring using distributed wireless sensor network', Pollution Research Journal, vol. 34, no. 1, pp. 51-57, ISSN: 0257-8050 (Annexure II) (Serial Number: 15251).
- Boselin Prabhu, SR & Sophia, S, 2012, 'A research on decentralized clustering algorithms for dense wireless sensor networks', International Journal of Computer Applications, vol. 57, no. 20, pp. 35-40, ISSN: 0975-8887.
- Boselin Prabhu, SR 2012, 'A novel delay-tolerant and power-efficient technique in wireless sensor networks', The Technology World Quarterly Journal, vol. 3, no. 3, pp. 24-31, ISSN: 2180-1614.
- Boselin Prabhu, SR & Sophia, S, 2013, 'Mobility assisted dynamic routing for mobile wireless sensor networks', International Journal of Advanced Information Technology, vol. 3, no. 3,

- pp. 09-19, ISSN: 2231-1548.
- Arumugam, Thangaraja; Jan, Akbar; Subramani, A. K. (2019). "Examining relationship between the critical factors of total success quality management implementation business performance: a structural equation modelling approach.". International Journal of Business Excellence 17, no. 4, 469-486.
- Tan, T.T.W. and Z.U. Ahmed, 1999. Managing market intelligence: An Asian marketing research perspective. Market. Intell. Plan., 17: 298-306
- Trim, P.R.J. and Y.I. Lee, 2006. The Role of Marketing Intelligence Officers in Strategy Formulation and Implementation. In: Handbook of Business Strategy, Emerald Insight Staff, (Ed.). Vol. 7, Emerald Group Publishing Limited, UK, pp: 125-130
- Arumugama, T., & Jayakrishnana, B. (2020). A Social Network Analysis on understanding pattern of shoppers' OmniChannel adoption and clustering based on channel switching and preference attributes. *International Conference on Business Management, Innovation, and Sustainability* (ICBMIS-2020).
- Zain, Z.M., R. Ishak and E.K. Ghani, 2009. The influence of corporate culture on organisational commitment: A study on a Malaysian listed company. Eur. J. Econ. Finance Admin. Sci., 17: 16-26
- Johnson, J. S., & Sohi, R. S. (2017).
 Getting business-to-business salespeople to implement strategies associated with introducing new products and services. *Industrial Marketing Management*, 62, 137–149.
- Zablah, A. R., Chonko, L. B., Bettencourt, L. A., Allen, G., & Haas, A. (2012). A job demands-resources (JD-R) perspective on new product selling: A framework for future research. *Journal of Personal Selling & Sales Management*, 32(1), 73–87
- Thangaraja, A. (2015). The Veiling Part of Neuromarketing in Developing Brand Preference in FMCG Sector: A

- Conceptual Study. *IJARIIE-ISSN(O)*-2395-4396, *Vol-1 Issue-5*, 1012-1015.
- Worm, S., Bharadwaj, S. G., Ulaga, W., & Reinartz, W. J. (2017). When and why do customer solutions pay off in business markets? *Journal of the Academy of Marketing Science*, 45(4), 490-512.
- Ahmad, N., Vveinhardt, J. and Ahmed, R.R. (2014), "Impact of word of mouth on consumer buying decision", European Journal of Business and Management, Vol. 6 No. 31, pp. 394-403.
- Alsubagh, H. (2015), "The impact of social networks on consumers' behaviors", International Journal of Business and Social Science, Vol. 6 No. 1, pp. 209-216.
- Canziani, B., Welsh, D., Dana, L.P. and Ramadani, V. (2020), "Claiming a family brand identity: the semiotics of website storytelling", Canadian Journal of Administrative Sciences, doi: 10.1002/cjas.1543
- Frederick, H., Maritz, A. and Mayal, M. (2012), "Testing a practice-based theory of entrepreneurial marketing and social media", Australian Centre for Entrepreneurship Research Exchange (ACERE) and DIANA International Conference, Fremantle, Western Australia, 31 Jan–3 Feb 2012.
- Golden, M. (2011), Social Media Strategies for Professionals and Their Firms: The Guide to Establishing Credibility and Accelerating Relationships, John Wiley and Sons, New Jersey, NJ.
- Hajli, N. (2014), "A study of the impact of social media on consumers", International Journal of Market Research, Vol. 56 No. 3, pp. 387-404.
- Hanna, R., Rohm, A. and Crittenden, V. (2011), "We're all connected: the power of the social media ecosystem. business horizons", Vol. 54 No. 4, pp. 265-273.
- Hawkins, D.I. and Mothersbaugh, D.L. (2010), Consumer Behavior: Building Marketing Strategy, 11th ed., McGraw-Hill Irwin, New York, NY.
- Heinonen, K. (2011), "Consumer

- activity in social media: managerial approaches to consumers' social behavior", Journal of Consumer Behaviour, Vol. 10 No. 6, pp. 356-364.
- Kietzmann, J.H., Hermkens, K., McCarthy, I.P. and Silvestre, B.S. (2011), "Social media? Get serious! Understanding the functional building blocks of social media", Business Horizons, Vol. 54, pp. 241-251.
- Jayakrishnan, B., Aruna, D. R., Arumugam, T., &Ramganathan, M. (2020). A Conjoint Based Approach on Female Customers' High Relevant Attributes Towards Passenger Car Preferences. Available at SSRN 3713761.
- Hameed, S. S., Madhavan, S., & Arumugam, T(2020). Is Consumer Behaviour Varying Towards Low And High Involvement Products Even Sports Celebrity Endorsed?. International Journal of Scientific and Technology Research, 2020, 9(3), pp. 4848-4852
- Kadiresan, V., Khuan, W. S., Arumugam, T., Rasu, F., &Theseira, A. S(2019). Employee Engagement and Retention in Automotive Industry in Malaysian Context. Job Stress as a Moderator. International Journal of Engineering and Advanced Technology, 2019, 8(6 Special Issue 3), pp. 607-617
- Anuradha,, Arumugam, T., Jan, N.A., Subramani, A.K.(2019). Social media addiction, culture code and mediation effect of mindfulness: A structural equation modelling access, International Journal of Recent Technology and Engineering, 2019, 8(2 Special Issue 3), pp. 1097-1102.
- Subramani, A. K., Jan, N. A., Goute, A. K., & Arumugam, T. (2019). Exploring the Medical Representatives' Perception towards Motivational Measures Implemented by Selected Pharma Companies, Chennai City. Indian Journal of Public Health Research & Development, 10(12), 6-13.
- Thangaraja.A, Abirami.A (2018), The consumer experience on geographical

- indicators and its impact on purchase decision: An empirical study, International Journal of Pure and Applied Mathematics, Volume 118 No. 20 2018, 2625-2630
- Thangaraja, A. (2018), The Role of Culture Code in Acceptance of internet of things (IoT) among fmcgconsumerS: a positivist approach. Sadakath: A Research Bulletin.
- Dr. Renju mathai& Dr. A. Thangaraja,(2017). Human resource information system, human resource performance and moderating effect of national and international banks of bank employees in Qatar. International Journal of Research in Commerce, IT and Management, volume no. 7 (2017), issue no. 10
- Kadiresan, V., Arumugam, T., Selamat, M.H., &Parasuraman, B. (2016). Pull Factors, Career Anchor And Turnover of Academicians in Malaysian Higher Education. Journal of international business and economics, 16, 59-80.
- R.JeyaRani, A.Thangaraja (2016) The Role of Marketing Intelligence in Green Banking Practices – A Conceptual Approach, Imperial Journal of Interdisciplinary Research (IJIR) Vol-2. Issue-9
- Krause, J., Croft, D.P. and James, R. (2007), "Social network theory in the behavioural sciences: potential applications", Behavioral Ecology and Sociobiology, Vol. 62, pp. 15-27.
- Lee, E. (2013), Impacts of Social Media on Consumer Behavior—Decision Making Process, Bachelor's Thesis, Turku University of Applied Sciences, Turku, pp. 1-77.
- Miller, R. and Lammas, N. (2010), "Social media and its implications for viral marketing", AsiaPacific Public Relations Journal, Vol. 11, pp. 1-9.
- Olanrewaju, A.S.T., Hossain, M.A., Whiteside, N. and Mercieca, P. (2020), "Social media and entrepreneurship research: a literature review", International Journal of Information Management, Vol. 50, pp. 90-110.
- Rasouli, S. and Timmermans, H.J.P. (2016), "Influence of social networks

- on latent choice of electric cars: a mixed logit specification using experimental design data", Networks and Spatial Economics, Vol. 16 No. 1, pp. 99-130.
- Smith, T. (2009), "The social media revolution", International Journal of Market Research, Vol. 51 No. 4, pp. 559-561.
- Mathai, R., & Arumugam, T. (2016). Preference and promoting of e-learning as a training medium in the hospitality industry with special reference to four and five star hotels in Tamil Nadu-India. International Journal of Business Administration, 7(3), 91-100.
- Subramani, A. K., Jan, N. A.,

- Arumugam, T., &Sasikala, M. S. (2019). Examining the relationship between critical success factors of total quality management implementation and business performance: a structural equation modelling approach. International Journal of Business Excellence, 17(4), 469-486.
- Kadiresan, V., Arumugam, T., Jayabalan, N., Ab Rahim, H. B., & SPR, C. R. (2019). HR Practices and Employee Retention. Leader-Member Exchange (LMX) as a mediator. International Journal of Engineering and Advanced Technology. 8 (6S3) 618, 62.