

Influence of Financial Statement Comparability on Applicability of Earnings

Dr. Uma Shankar

Assistant Professor, Department of Accounting, FASE, Tishk International University, Erbil, KRG

Abstract

Comparability in accounting implies a nature of bookkeeping data that works with the examination of monetary revealing of one organization to the monetary detailing of another organization. Similarity permits clients to look at monetary position and execution across time and across organizations. Comparability improves convenience of fiscal summaries since it permits clients to complete pattern investigation, cross-sectional examination and basic size investigation. We additionally give proof that likeness is emphatically connected with administrative gauge exactness and accuracy, reliable with equivalence improving the capacity of chiefs to anticipate future firm earnings. Comparability in accounting upgrades an organizations' data quality, as sane contributing and loaning choices require near data. The improved firm data climate that originates from more prominent equivalence prompts better dynamic and, consequently, the contention for similarity is especially relevant.

Key words: *Comparability in accounting, monetary revealing, cross-sectional examination, anticipate earnings*

Introduction:

Financial summaries are more practically identical when similar bookkeeping strategies and principles are applied across various announcing periods, just as across numerous substances inside an industry. When textile and automobile firms reliably apply similar industry-explicit bookkeeping norms to their financial reports, there ought to be an undeniable degree of equivalence inside that industry [15-21]. Financial statement includes: Balance sheet, Profit & Loss account; Cash flow statement and statement of shareholders equity. Balance sheet show what an organization possesses and what it owes at a fixed point on schedule. Profit & Loss account show how much cash and organization generated and invested over a time of energy. Comparability of financial statement over various bookkeeping periods can be guaranteed by the utilization of comparative bookkeeping strategies throughout some undefined time frame [22-28]. An adjustment of the accounting policies of an organisation might be needed to improve the dependability and significance of financial statements.

Comparability in monetary detailing empowers financial investors to make sound monetary decisions. Comparability expands straightforwardness. Firms with upgraded straightforwardness experience less issue with common office, and they were more averse to attempt shrewd profit the board. Improved firm straightforwardness and director foresight has additionally been related with similarity [29-35]. Examiners are bound to utilize a similar industry area benchmarks for likeness as comparability between peer bunches increments. Bookkeeping equals ought to suffer across firms, regardless of the optional adaptability stood to directors under International Financial Reporting Standards (IFRS). Firms having comparative gatherings quality, profit consistency, income perfection, and comparable misfortune detailing will likewise display more noteworthy similarity [36-42].

Review of literature:

Anthony Chen James Jianxin Gong- Accounting comparability, financial reporting quality, and the pricing of accruals -2019 have examined the effect of accounting comparability on monetary revealing quality and the degree to which budget summary clients comprehend the ramifications of firms' gatherings. We foresee that similarity improves the data climate, which not just upgrades the capacity of administrators to assess accumulations all the more precisely and sign their private data, yet additionally improves financial backers' appreciation of gatherings. Using repetitions, the planning of accumulations into incomes, profit diligence, and review expenses as proportions of monetary announcing quality, we track down that earlier period similarity is related with higher monetary detailing quality. When earlier period comparability is higher, current period optional gatherings are less emphatically related with contemporaneous returns and less adversely connected with future returns, reliable with our expectation that similarity improves the valuing effectiveness of accumulations. Our outcomes are vigorous to controlling for the endogeneity of bookkeeping likeness and a few diverse experimental model particulars. Generally speaking, our discoveries recommend that improved bookkeeping likeness is useful to both gets ready and clients of fiscal reports [4].

Wil Martens , Prem W. S. Yapa and Maryam Safari in their article “The Impact of Financial Statement Comparability on Earnings Management: Evidence from Frontier Markets” -2020 stated that similarity is decidedly connected with expert figure precision and improves the data climate. Financial statement similarity ought to suffer across firms, in spite of the optional adaptability stood to supervisors under International Financial Reporting Standards (IFRS). It follows that firm having comparable accumulations quality, income consistency, profit perfection, and comparable misfortune revealing will likewise display more noteworthy equivalence. Firms with more prominent equivalence are relied upon to utilize all the more genuine profit the executives. Motivating forces to oversee income shift across nations, yet in the event that partners' inclination is all around predictable with prospect theory; a chief has a motivator to oversee profit to achieve the ideal result [14].

Jeong-Bon Kim, Leye Li Louise Yi Lu, Yangxin Yu in their article “Financial statement comparability and managers' use of corporate resources”- 2020 have analysed that the effect of financial statement comparability on chiefs' utilization of corporate assets. In financial statement report comparability it was found that likeness in increments, corporate money possessions are worth more to outside investors, capital use offers more to investor esteem, and corporate acquisitions made by the firm well affect investor esteem. They have tracked down that higher likeness prompts both lower under- and overinvestment. The outcomes propose that equivalence works with financial investor checking of supervisors' utilization of corporate assets, which improves investor esteem [8].

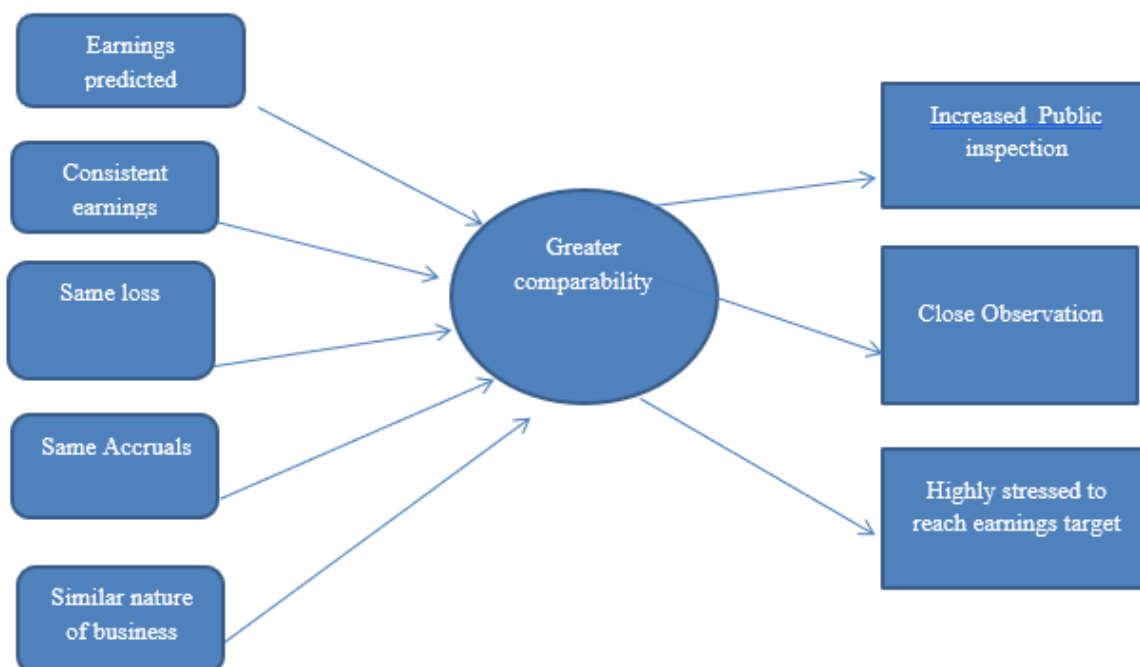
Stephen A. Zeff in his article “Some obstacles to global financial reporting comparability and convergence at a high level of quality” – 2007 mentioned that comparability is a troublesome thought to see even inside a country, not to mention worldwide. The view beginning in the United States and now referred to generally is that comparability is accomplished by guaranteeing that 'like things resemble the other the same, and not at all like things appear to be unique'. Concerning the business and monetary culture, there are sure contrasts across nations in the manner business is directed and in their supporting monetary business sectors. For instance, on account of motivations and disincentives in the annual expense law and different laws, deals are frequently planned contrastingly in various nations. In the USA, part of the way in light of tax breaks, it is typical in specific enterprises to raise financing through long haul leases. Benefits plans and other retirement plan courses of action are additionally influenced by the manner in which business is done in various nations. In certain nations, post-retirement benefits, including those for medical care, are directed and paid by the Government; while in others they are the obligation of the business [13].

Bingyi Chen , Ahmet C. Kurt , Irene Guannan Wang in their article “Accounting comparability and the value relevance of earnings and book value” – 2020 have elaborated that the worth pertinence of financial statement summaries is of incredible importance to financial investors and standard setters. The current exploration looks at whether accounting likeness among industry peers upgrades the worth pertinence of profit and book esteem. This is a significant inquiry in light of the fact that both the Financial Accounting Standards Board and the Securities Exchange Commission look for more noteworthy likeness in monetary announcing. Notwithstanding, there is restricted experimental proof on what comparability means for the worth pertinence of bookkeeping data in the United States. Their outcomes show that bookkeeping likeness expands the worth importance of income, yet not book esteem. That is, when firms show more noteworthy financial statement comparability vis-à-vis industry peers, financial investors append higher worth to announced income. As far as financial importance, the worth significance of profit is 25.2% higher when bookkeeping similarity is higher by one standard deviation. In any case, the gradual advantages of bookkeeping equivalence are constricted when monetary detailing obscurity is high or when there exist an inner control material shortcoming over monetary revealing. Conversely, likeness benefits are upgraded when an industry expert inspector is utilized. Their outcomes are strong to utilizing distinctive model particulars [5].

Figure 1. Factors affecting financial statement comparability

Objectives:

- To study the factors affecting financial statement comparability
- To analyse the impact of financial comparability on earnings
- To offer suggestions to enhance earnings through comparability



The financial statement is the main hotspot for financial investors when searching for data to put together their speculation choices with respect to. Henceforth it is vital that financial statement is dependable and comparable. It has been contended that the importance of fiscal reports has been declining. Financial investors expect the data to be comparable to have the option to settle on the ideal venture choice. Rebuilding expenses

and capital additions influence comparability. Huge rebuilding costs adversely affect the stock value. Organizations control their income downwards due to the more significant level of resilience from partners during an emergency [12]. Due to comparability increments, corporate money property are worth more to outside investors, capital expenses enhances investor esteem, and corporate procurements made by the firm will affect investor esteem. Worth of money property is higher for firms whose financial statements can be compared with their competitors [7].

The factors that influence financial statement comparability are: Capital additions and misfortunes from divestment, close-down or huge down-estimating of significant units, rebuilding activities with a bunch of exercises pointed toward reshaping a significant design or cycle and non-repeating expenses.

Impact of financial comparability on earnings

Procuring the executives is the interaction by which an organization's real monetary presentation is misshaped. Earnings management might possibly in itself are entrepreneurial, firms in less created markets have been found to oversee profit to a more prominent degree than those in created economies. To oversee profit, a firm can utilize numerous earning systems [43-48]. The connection among comparability and earnings changes from positive to negative after International Financial Reporting Standards (IFRS) appropriation. When the action catches comparability, the actions will be identified with similitudes in earnings. Four earnings credits regularly utilized are: accumulation quality, consistency, perfection, and firm's misfortune.

It has been tried whether comparability shows any advantages to financial statement users as gathered from the impact on expert inclusion and the properties of their figures. Examiner inclusion is expanding in comparability. It was tracked down that both the firm is expanding in the likeness. Consequently, we not just show that equivalence prompts more noteworthy investigator following, yet in addition explicitly anticipate which different firms an expert will follow[49-50]. Likewise, the outcomes propose that equivalence is emphatically connected with conjecture exactness and adversely connected with estimate scattering. These outcomes furnish proof reliable with our speculations that equivalence brings down the expense of procuring data, and builds the general amount and nature of data accessible to experts about the firm. Comparability improves monetary detailing quality, debilitates administrative impetuses for terrible news storing, upgrades future income reactions, and brings down data imbalance, as proxies by bid-ask spread and illiquidity [2].

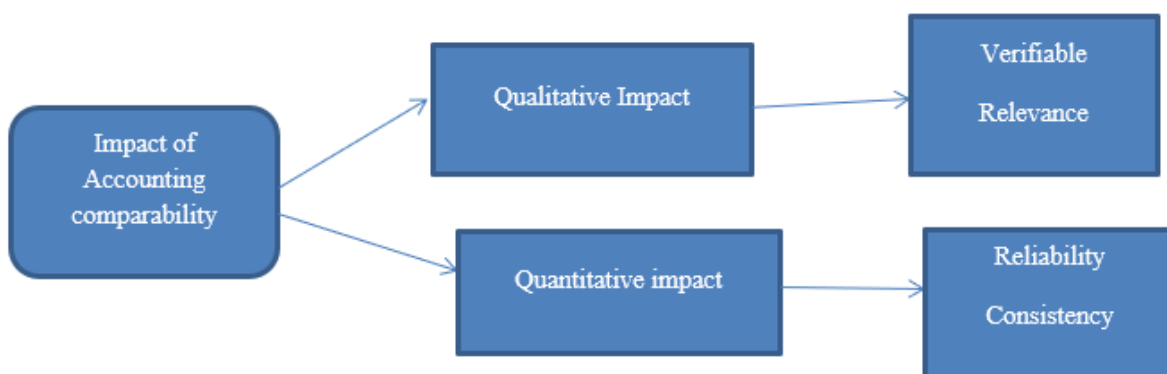


Figure 2- Impact of Accounting Comparability

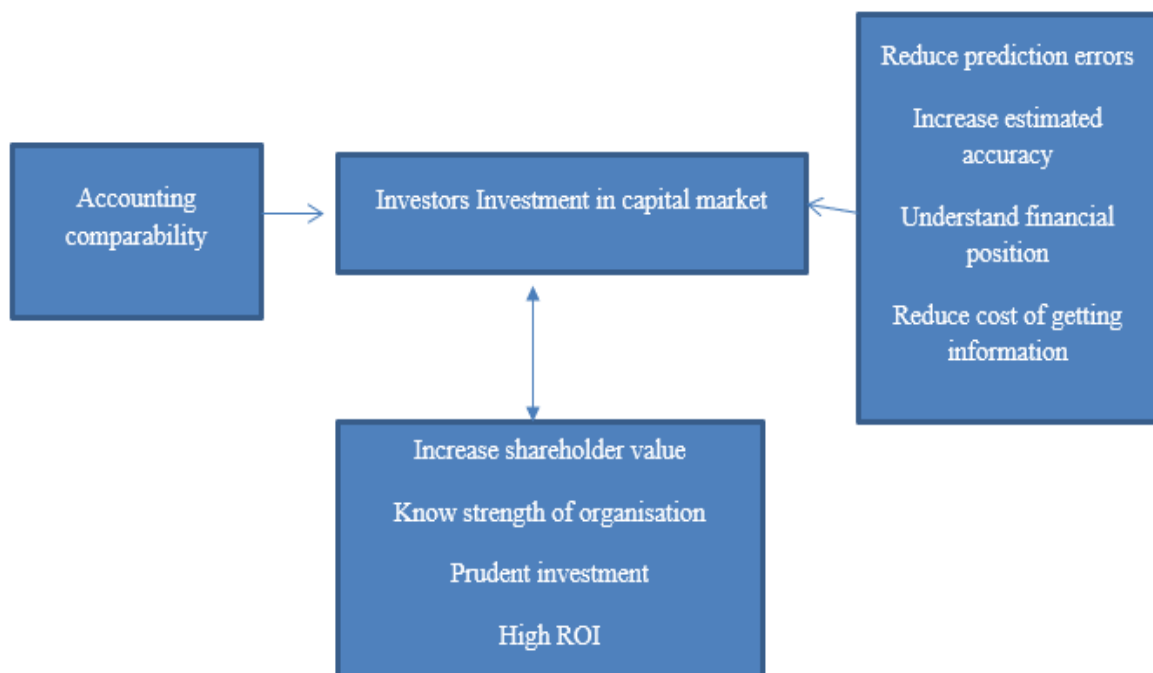
The capacity to gauge future profit is a typical assignment for clients, who are extensively characterized to incorporate experts as well as financial investors, especially those occupied with valuation. Improved exactness, for instance, addresses a substantial advantage to this client bunch. More tantamount firms establish better benchmarks for one another. What's more, data move among practically identical firms ought to likewise be more prominent. Better data climate related with higher likeness firms will diminish financial investor interest for expert inclusion. Upgraded information works with experts' capacity to conjecture firm's profit and in this manner prompts improved estimate exactness [9].

Comparability is the subjective trademark that empowers clients to recognize and comprehend similitudes in, and contrasts among, things; comparability helps financial investors, banks and different lenders in settling on educated capital assignment choices; and accomplishing similarity relies upon firms applying a typical arrangement of monetary announcing guidelines and on prerequisites in the norms, particularly estimation necessities. In the event that financial investors, moneylenders and different loan bosses can't make educated examinations regarding elective venture openings, their capital designation choices will be problematic [11].

Bookkeeping profit could satisfy a similarity job to financial investors in any event, when the bookkeeping capacities fundamentally are not indistinguishable. In particular, one could envision two firms in which bookkeeping income covary after some time to such an extent that data about the profit of one firm can be enlightening to a financial investor keen on determining the income of another firm [3] Further, one benefit of this elective thought of equivalence is that it doesn't expect us to indicate and appraise the bookkeeping framework. Financial statement comparability measure could be utilized to help survey changes in comparability because of changes in bookkeeping estimation rules or revealing principles, accounting decision contrasts, or of changes [6].

Figure 3- Influence on Investors

The proportion of similarity so far depends on the distance between bookkeeping incomes for two firms with indistinguishable monetary occasions. The benefit of this methodology is that it unequivocally controls for the monetary occasion trying to separate bookkeeping likeness. Nonetheless, one could contend that bookkeeping



profit could satisfy an equivalence job to financial investors in any event, when the bookkeeping capacities as such are not indistinguishable. In particular, one could envision two firms in which bookkeeping profit co vary after some time to such an extent that data about the income of one firm can be useful to a financial investor keen on gauging the income of another firm. Further, one benefit of this elective idea of likeness is that it doesn't expect us to determine and assess the bookkeeping framework, is a constraint to our measure [10].

Accounting comparability improves an association's data climate by making it simpler for financial investors to comprehend financial statement data considering similar friend information. By and by, the valuation advantages of accounting similarity are not unqualified. Just mirroring peer firms' detectable accounting decisions may not achieve the normal advantages. There are other significant contemplations like: monetary detailing straightforwardness; the strength of inside controls; and examiner specialization. Accounting comparability is unique in relation to monetary revealing quality. Since a firm uses a similar stock valuation technique as different firms in its industry doesn't really guarantee the nature of monetary announcing for the connected records. Detailing missteps can in any case bring down monetary announcing quality. In this way, to understand the advantages of similarity, CFOs need to ensure that their organizations have strong inward powers over monetary revealing. The frequency of interior control material shortcoming cleans out the entirety of the extra worth connected to profit under high bookkeeping likeness. Numerous organizations raise extra value financing through follow-on contributions, which regularly collect incredulity from financial backers. Yet, when financial backers place more prominent worth on profit because of high bookkeeping equivalence, firms can raise value financing at more positive terms and accordingly leave less cash on the table [1].

Findings:

The international standardisation of accounting standards, has managed to higher financial comparability.

It was found that firms in less competitive industries have higher levels of Earnings as a consequence of weak disciplined environments

It was found that increased comparability occurs due to the adoption of International Financial Reporting Standards (IFRS), since it reduces information acquisition costs and predicts accuracy.

Comparability increases transparency, such firms experience less issues and they do not undertake unprincipled earnings management.

Comparability is cost-effective and cross-firm comparison is simple

When two similar industries with benchmarks are compared, comparability between peer groups increases.

Improved information with higher comparability firms will decrease investor demand for analyst coverage, which leads to decrease in analyst benefits.

Financial statement similarity improves the data climate, as proven by an increment in examiner following and a decrease in gauge mistake and estimate scattering.

Financial comparability will expect clients to make less, more modest, or more comparative acclimations to accounting numbers inside peer gatherings, so lower comparability expects clients to make less normalized or in any case more critical estimations and examinations inside these gatherings.

Financial comparability brings down data obtaining cost, diminishes the vulnerabilities related with execution assessment, improves inside capital market effectiveness, and builds the general amount and nature of data accessible to corporate untouchables

Suggestions:

If the traits of financial reporting are common between firms, the extent of analyst forecast errors will become more systematic.

Similar forecasting models must be used for financial statement comparability

When there is increase in the supply of information results, consistent with the lower costs of more information, it will offset the decreased demand.

The methods of comparability must be related to analysts' choice of comparable firms in their reports.

Larger financial comparability must increase earnings perseverance and accrual quality

An analyst can use another firm in the industry as a benchmark when finding a particular firm is increasing in the comparability between the two firms. Comparability is positively associated with analyst estimate accuracy and negatively associated with forecast diffusion.

Interest for more similar firm exposures by foundations, and by the purchase side examiners they utilize, is more noteworthy among firms that have covering institutional possession.

Firms expect the exertion applied by investigators to comprehend and dissect the fiscal reports of firms with comparable companions to be lower than their work for firms without equivalent friends. Because of this distinction in examiners' expense of dissecting a firm, we can explore variety in two elements of experts' conduct – the quantity of investigators following a firm and the properties of experts' figures.

Economic connections shake our comparability measures, which in turn motivates to control industry size and book market

Conclusion:

We think about the lopsided practicality of profit as a potential wellspring of predisposition in our proportion of comparability. To have practicality into our measure, we gauge the company's uneven bookkeeping reaction to gains and misfortunes by embracing a firm-explicit assessment. Accounting income could satisfy a likeness job to financial investors in any event, when the accounting capacities are not indistinguishable. In particular, one could envision two firms in which bookkeeping profit differ over the long haul to such an extent that data about the earnings of one firm can be enlightening to a financial investor keen on determining the profit of another firm.

Earnings are apparently the main rundown proportion of accounting execution; an impediment is that earning catches just a single financial statement measurement. Balance sheet report attracts lenders, credit score organizations, bank controllers, and so forth a chance exists to make a multi-dimensional fiscal report proportion of similarity. Further, one benefit of this elective idea of comparability is that it doesn't expect us to indicate and gauge the accounting framework.

References:

1. Ahmet Kurt - The Importance of Accounting Comparability – 2020
2. Ahsan Habib, Mostafa Monzur Hasan, Sabur Mollah, Philip Molyneux - Financial Statement Comparability, Earnings Smoothing and Loan-Loss Provisioning in Banking in SSRN Electronic Journal – 2020
3. Amos Ganyam, "Effect of Accounting comparability on Financial Performance of Firms: A Review of Literature in IOSR Journal of Business and Management- 2019
4. Anthony Chen James Jianxin Gong- Accounting comparability, financial reporting quality, and the pricing of accruals in *Advances in Accounting* ,Volume 45, June 2019
5. Bingyi Chen , Ahmet C. Kurt , Irene Guannan Wang- Accounting comparability and the value relevance of earnings and book value in the *Journal of Corporate Accounting and Finance- 2020*
6. Gus De Franco, S.P. Kothari, Rodrigo S. Verdi - The Benefits of Financial Statement Comparability in *Journal of Accounting Research - 2011*
7. Hyejin Ahn ; Sunhwa Choi ; Sunho Chris Yun - Financial Statement Comparability and the Market Value of Cash Holdings in *Accounting Horizons-2020*
8. Jeong-Bon Kim, Leye Li Louise Yi Lu, Yangxin Yu - Financial statement comparability and managers' use of corporate resources – *Journal of Accounting and Finance- 2020*
9. Jere R. Francis, Matthew L. Pinnuck and Olena Watanabe - Auditor Style and Financial Statement Comparability in *American Accounting association -2014*
10. Li Qingyuan, Wang Lumeng - Financial statement comparability and corporate tax avoidance in *China Journal of Accounting Studies – 2019*
11. Mary E Barth - Global Comparability in Financial Reporting: What, Why, How, and When? in *China Journal of Accounting Studies – 2013*
12. Moritz Arndt & Daniel Malmqvist – Items affecting comparability in the financial statements- 2010
13. Stephen A. Zeff- Some obstacles to global financial reporting comparability and convergence at a high level of quality – *Journal of The British Accounting Review, 2007*
14. Wil Martens, Prem W. S. Yapa and Maryam Safari - The Impact of Financial Statement Comparability on Earnings Management: Evidence from Frontier Markets in *International Journal of Financial Studies-2020*
15. Kapila Uma Shankar (Dr.Uma Shankar),(2017),Prospects and Challenges in GST Implementation – An India Perspective. *Printing Area International Research Journal* 5 (35), 0130 - 0137. 18.
16. Kapila Uma Shankar (Dr.Uma Shankar), (2017),Digital Economy in India: Challenges and Prospects. *International Journal of Research in Management Studies* ((a peer review open access international journal – www.ijrms.com), 2(11), 6 -11. 19.
17. Kapila Uma Shankar (Dr.Uma Shankar), (2017), *International Journal of Research in Management Studies* (A peer review open access international journal – www.ijrms.com), 2(9), 20 - 28. 20.
18. Kapila Uma Shankar (Dr.Uma Shankar), (2016),Benefits of the Adoption of International Financial Reporting Standards (IFRS) in INDIA - A Study, *International Journal of Multidisciplinary Research Review -Peer Reviewed Journal*, E-ISSN 2395 – 1885, 1(21), 103 -108.
19. Kapila Uma Shankar (Uma Shankar), Prof. B. R. Megha Raj, (2015), The Relationship Between Exchange Rate and Selected Information Technology Stocks Listed in Bombay Stock Exchange of India, *Indian journal of applied research*, ISSN- 2249-555X, impact factor; 3.6241, 5(6),498 -500.
20. Dr.P. Govindasamy; Dr.Kapila Uma Shankar; Mr.R. Ravimohan. "Modeling of dividend payout, retention, yield, capital gains and irrelevance and its impact on value of the firm". *Journal of Contemporary Issues in Business and Government*, 27, 2, 2021, 5166-5178. doi: 10.47750/cibg.2021.27.02.528.

21. Ganesh Babu Loganathan, Praveen M., Jamuna Rani D., “Intelligent classification technique for breast cancer classification using digital image processing approach” IEEE Xplore Digital Library 2019, Pp.1-6.
22. M. Viswanathan, Ganesh Babu Loganathan, and S. Srinivasan, “IKP based biometric authentication using artificial neural network”, AIP Conference Proceedings (2020), Volume 2271, Issue 1, pp 030030.
23. Mohammed Abdulghani Taha and Ganesh Babu Loganathan, “Hybrid algorithms for spectral noise removal in hyper spectral images” AIP Conference Proceedings (2020), Volume 2271, Issue 1, pp 030013.
24. Dr.Idris Hadi Salih, Ganesh Babu Loganathan, ”Induction motor fault monitoring and fault classification using deep learning probabilistic neural network” Solid State Technology(2020), Volume 63, Issue 6, PP No. 2196-2213.
25. Ganesh Babu Loganathan “Design and analysis of high gain Re Boost-Luo converter for high power DC application”, Materials Today: Proceedings(2020), Volume 33, Part 1, PP 13-22.
26. Ganesh Babu Loganathan, Dr.E.Mohan, R.Siva Kumar, “ Iot Based Water And Soil Quality Monitoring System”, International Journal of Mechanical Engineering and Technology (IJMET)(2019), Vol.10 Issue No.2, P.No. 537-541.
27. Suganthi K, Idris Hadi Salih, Ganesh Babu Loganathan, and Sundararaman K, “A Single Switch Bipolar Triple Output Converter with Fuzzy Control”, International Journal of Advanced Science and Technology, (2020), Vol. 29, No. 5, (2020), P.No.. 2386 – 2400.
28. Ganesh Babu Loganathan, “Can Based Automated Vehicle Security System”, International Journal of Mechanical Engineering and Technology (IJMET)(2019), Vol.10 Issue No.07, P.No. 46-51.
29. Loganathan, Ganesh Babu, Vanet Based Secured Accident Prevention System (September 10, 2019). International Journal of Mechanical Engineering and Technology, 10(6), 2019, pp. 285-291, Available at SSRN: <https://ssrn.com/abstract=3451201>
30. B.K. Patle, Ganesh Babu L, Anish Pandey, D.R.K. Parhi, A. Jagadeesh, A review: On path planning strategies for navigation of mobile robot, Defence Technology, Volume 15, Issue 4, August 2019, Pages 582-606.
31. Dr.A.Senthil Kumar, Dr.Venmathi A R ,L.Ganesh Babu, Dr.G. Suresh, “Smart Agriculture Robo With Leaf Diseases Detection Using IOT”, European Journal of Molecular & Clinical Medicine, Volume 07, Issue 09, PP 2462-2469.
32. Ganesh Babu L 2019 Influence of benzoyl chloride treatment on the tribological characteristics of Cyperus pangorei fibers based nonasbestos brake friction composites Mater. Res. Express 7 015303.
33. A.Devaraju, P.Sivasamy, Ganesh Babu Loganathan, “Mechanical properties of polymer composites with ZnO nano-particle” , Materials Today: Proceedings(2020), Volume 22, Part 3, Pages 531-534
34. Qaysar S.Mahdi, “Prediction of Mobile Radio Wave Propagation in Complex Topography” , Eurasian Journal of Science & Engineering, Volume 4, Issue 1 (Special Issue); September, 2018, PP 49-55.
35. Qaysar S. Mahd, “Survivability Analysis of GSM Network Systems”, Eurasian Journal of Science & Engineering, Volume 3, Issue 3; June, 2018, PP 113-123.
36. Qaysar S.Mahdi, “Comparison Study of Multi-Beams Radar under Different Radar Cross Section and Different Transmitting Frequency”, Eurasian Journal of Science & Engineering, Volume 3, Issue 3; June, 2018, PP 1-11.
37. Ellappan Mohan, Arunachalam Rajesh , Gurram Sunitha , Reddy Madhavi Konduru , Janagaraj Avanija, Loganathan Ganesh Babu, “A deep neural network learning-based speckle noise removal technique for enhancing the quality of synthetic-aperture radar images”, Concurrency And Computation-Practice & Experience, <https://doi.org/10.1002/cpe.6239>.

38. Dr.A.Senthil Kumar, Dr.G.Suresh, Dr.S.Lekashri, Mr.L.Ganesh Babu, Dr. R.Manikandan, “Smart Agriculture System With E – Carbage Using Iot”, International Journal of Modern Agriculture, Volume 10, No.1, 2021 pp 928-931.
39. Ganesh Babu Loganathan, Idris Hadi Salih, A.Karthikayen, N. Satheesh Kumar, Udayakumar Durairaj. (2021). EERP: Intelligent Cluster based Energy Enhanced Routing Protocol Design over Wireless Sensor Network Environment. International Journal of Modern Agriculture, 10(2), 1725 - 1736. Retrieved from <http://www.modern-journals.com/index.php/ijma/article/view/908>
40. Dr.A.Senthil Kumar, Dr.G.Suresh, Dr.S.Lekashri, Mr.L.Ganesh Babu, Dr. R.Manikandan. (2021). Smart Agriculture System With E – Carbage Using Iot. International Journal of Modern Agriculture, 10(1), 928 - 931. Retrieved from <http://www.modern-journals.com/index.php/ijma/article/view/690>.
41. C. Kannan, Nalin Kant Mohanty, R. Selvarasu,”A new topology for cascaded H-bridge multilevel inverter with PI and Fuzzy control”, Energy Procedia, Volume 117, 2017,Pages 917-926, ISSN 1876-6102, <https://doi.org/10.1016/j.egypro.2017.05.211>.
42. C. Kannan, and C.K. Kishore, “A Comparision of Three Phase 27 Level Inverter Scheme under No Load and Multiple Load Conditions”, Bulletin of Electrical Engineering and Informatics Vol. 3, No.4, pp. 245-250, December 2014
43. S Priyadharsini, TS Sivakumaran, C Kannan, ”Performance analysis of photovoltaic-based SL-quasi Z source inverter” International Journal of Energy Technology and Policy, Volume 1, Issue 3, Pages 254-264.
44. Maheswari, V. , Nandagopal, V. and Kannan, C. (2016), “Performance Metric of Z Source CHB Multilevel Inverter FED IM for Selective Harmonic Elimination and THD Reduction”, Circuits and Systems, 7, 3794-3806. doi: 10.4236/cs.2016.711317.
45. Nandagopal, Dr.V., Maheswari, Dr.V. and Kannan, C. (2016) Newly Constructed Real Time ECG Monitoring System Using LabView. Circuits and Systems, 7, 4227-4235.
46. Qaysar Salih Mahdi, Idris Hadi Saleh, Ghani Hashim, Ganesh Babu Loganathan, “Evaluation of Robot Professor Technology in Teaching and Business”, Information Technology in Industry, Volume 09, Issue 01, PP 1182-1194.
47. Dr. Kapila Uma Shankar, Dr. Waqar Ahmad, Sallar Ashqi Kareem, “beta volatility and its consequences for hedging systematic risk with reference to stock market during covid-19”, Information Technology in Industry, Volume 09, Issue 03,2021, 482 – 492.
48. Dr. Uma Shankar, “Debt Restructuring to Elongate Asset Quality of Banks In India”, Solid State Technology (2020), Volume 63, Issue 6, PP No. 14540-14549
49. Dr.Kapila Uma Shankar, “Analysis on Social Banking for Sustainable Growth and Satisfaction on Social Targets”, International Journal of Advanced Science and Technology, Volume 29, Issue 7, PP No. 14487-14491.
50. P.Govindasamy , Kapila Uma Shankar, “Covid-19 And Global Financial Markets With Special Focus To Gdp Growth Projection, Capital Mobilization And Performance Of Stock Market” Volume XI, Issue VII, 2020, PP No. 1-9.