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Coffee Supply Operation Management Consequences on Cooperative Societies Functionalism in Ethiopia

Dr. Shashi Kant, Zelalem Zegeye, Tegene Tesfaye

Department of Marketing Management, College of Business and Economics, Bule Hora University, Horn of Africa, Ethiopia

Abstract

The deficit of the perceptual selection and inclusion of the logistics administration notion and philosophies were stated as the declaration of the challenge of the investigation. The objective was to investigate the chain of coffee supply operation management of the cooperative societies in the area of Oromia region (Ethiopia) from coffee planters to sell overseas phase. Mutually foundations of both principle and secondary information were used to gather the information from the 3 associates (coffee planters, principal cooperative societies, and association of cooperative societies) that engaged in the chain of coffee supply on cooperative societies functionalism. The investigators used purposive data collection method & random data collection method methodologies by SPSS was used to elucidate, comprehend and review the information that was gathered from respondents. With regard to interior operation, the explanatory information interpretation from the associates conveys that there is reasonable functionalism, the networking among the associates that engaged in the logistics is moderate in associates concerning cybernetics, Leadership operation of logistics administration in the area of a coffee cooperative is significant as the collective mean manifested in the experiment generate consciousness is a foremost phase for operation logistics administration, so each associate of cooperative coffee logistics must work on the logistics orientation on cooperative functionalism used 359 specimen size and it direct for future experiments.

Keywords: Interior Operation, Leadership, Networking, Cybernetics

INTRODUCTION

Logistics composes of the series of parameters and organizations that inventories are in motion through on their passage from preliminary contractors to end clients (Helmold &Terry, 2021). Logistics administration (LA) has received in current years a great deal of attention from investigators and practitioners. Consequently, LA will lead to a lowering of the total amount of reconditions required to provide the necessary level of client services to a specific segment and enhancing client service through and enhancing client service through increased product availability and reduced order cycle time (Salmani & Partovi, 2021). According to Vegro & Almeida, 2020; Coffee is the world's most valuable agricultural commodity. One of the ways of enhancing the quality and worth of coffees around the world is to assimilate, collaborate, and improve existing logistics. This can make it increasingly complex to operate efficient logistics. Administrating logistics has to turn out to be a way of enhancing strategic advantage by reducing uncertainty and

Corresponding author
skant317@gmail.com
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enhancing survival (Idris et al., 2022). According to Saber (2011), as cited (Ayele, 2022), the biggest foundations of export income for Ethiopia are coffee (Prybutok et al., 2021).
Thus, the above studies show contradictory evidence; therefore, researchers are motivated to conduct present research to full fill these evidence and geographical gaps.
According to Otunmala (2021), the Chain of coffee supply is weakly assimilated with one another and with market systems, especially in Ethiopia. Therefore, this learning was intended to examine the consequence of the chain of coffee supply operation management (supply and customer relationship, interior operation, leadership networking, and cybernetics) in cooperative functionalism in the area of Oromia region Bule Hora Woreda.

LITERATURE REVIEW

The operation of LA refers to a complete set of actions that are done in organizations to improve the consequences in the interior logistic. LA operations are also defined as approaches applied in administrating integration and coordination of supply, demand, and association in order to satisfy consumers and profitable manners (Hamid and Woreta, 2021; Zhou et al., 2021; Jermsittiparsert et al., 2019). According to Tadele & Hibistu (2022), the Chain of coffee supply is weakly assimilated to one another and with market systems. The main target of this study was to conduct an investigation on the level of perceptual selection logistics administration notion and the operation of logistics administration theory on the ground based on five basic perspectives of logistics operation management developed by (Kot, 2018). These are namely, contractor and client relationships, networking, interior operation, cybernetics, and leadership (Tarigan et al., 2021; Rudyanto et al., 2021); (Arrigo, 2018). Organizations depend on their clients and, therefore, should comprehend current and future client needs and meet client requirements (Modgil et al., 2021).
According to the Logistics operation management Development Centre (in Bule Hora Woreda), increasing operational complexities within the chain of coffee supply administration led to business sustainability (Yaf & Haider, 2021). According to Chengappa (2018), the Chain of coffee supply is weakly assimilated into one another and with market systems. According to Rodríguez-Rivero et al. (2022), the Chain of coffee supply is weakly assimilated to one another and with market systems. Blanco & Galeano (2022) traced in their interpretation that there is a challenge of perceptual selection and inclusion of logistics administration philosophies. The main target of this study was to conduct an investigation on the level of perceptual selection logistics administration notion and the operation of logistics administration theory on the ground based on five basic perspectives of logistics operation management developed by Blanco & Galeano (2022). These are, namely, contractor and client relationships, networking, interior operation, cybernetics, and leadership.
Shumeta & D'Haese (2018) effect on the chain of coffee supply administration illustrated the leverage of cooperatives to contribute to their overall performance. But, Irungu, M. (2019), in his thesis, found that the chain of coffee supply administration affected the coffee cooperatives' performance negatively in Kenya. Similarly, Grashuis & Su (2019), while a review of the empirical literature on farmer cooperatives in terms of Logistics administration, found a negative inverse U-shaped relation. Hewavitharana (2021), while studying the impact of the global Value Chain on the Performance of SMEs, manifested that the SME variable shows a negative statistically significant effect. Wijerathne (2021) depicted that a cooperative's involvement in the global supply chain has

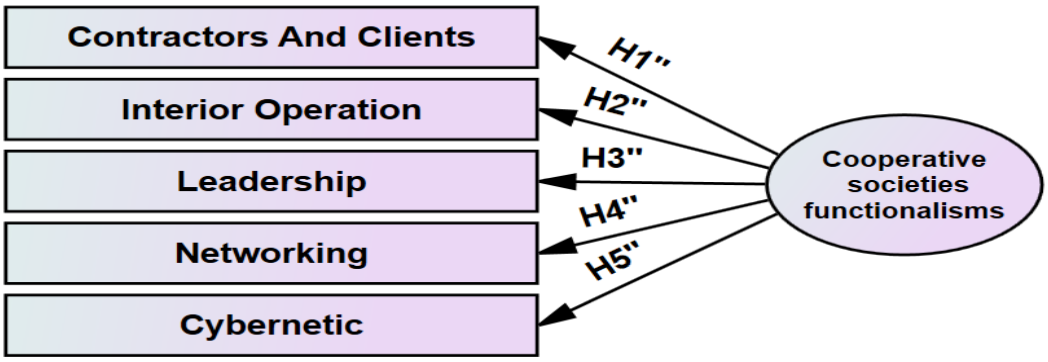
underlying consequences. In the case of the chain of coffee supply administration statistically significant negative effect on global Logistics administration participation; both backward and forward linkages affected the cooperative performance negatively.

According to Tarigan et al. (2021), the Contractor and client relationship is defined as a set of firms' parameters in administrating its association with clients and contractors to improve client satisfaction and synchronize logistics parameters with contractors, leverage contractors' capacity to deliver higher and unique products to clients. This is due to the ultimate objective of LA is to deliver products to the satisfaction of end clients. Firms that assimilated with clients, including planning, implementing, and evaluating a successful relationship among the provider and recipient of both backward and forward the logistic.

RESEARCH METHOD

The research approach of this study used both quantitative approaches. Consequently, both principles and secondary information were used in this study. This study employed the explanatory and explanatory research design. The site of this study is in the west Guji Zone. West Guji zone is one of the Zones in the Oromia regional state of Ethiopia that is located in the southern direction and has a distance 470km from Addis Ababa, the capital city of Ethiopia. Bule Hora Woreda is one of the Administrative of west Guji Zone, which is found at the centre of West Guji Zone and is the capital town of West Guji Zone. Bule Hora Town is comprised of eighty (8) kebeles (West Guji Zone Bule Hora agricultural office statics (2022).

Model specification for the study is depicted in figure 1:



Source: Researchers' own Framework (2022)

For this study, the investigators used a combination of purposive data collection methods and purposive data collection methods to obtain a representative specimen. The precision level assumed to be committed in this study would be taken 5%, 95% confidence level, 0.5 degrees of variability, and 9% (0.09) level of precision (Yamane, 1967).

$$\mathbf{n=}\frac{N}{1+N(e)\ 2}$$

$n=\frac{4270}{1+4270(0.05)}2$ = specimen Size =359

n= 359 male and female respondents in five kebeles

FINDINGS AND DISCUSSION

This part described how the research was acquired and how the results of the data analyses were interpreted.

Table 1. Table of Normality Test

Statistics						
	Contractor Client relation	Interior Operation	Leadership	Networking	Cybernetics	Coop. Functionalism
Skewness	-.232	-.459	-.457	-.112	-.422	-.391
Kurtosis	-.412	-1.111	-1.083	-.668	-.933	-.836

Foundation: SPSS Out Put, 2022

In table 1, distribution is Normal in nature because it takes a symmetric ball-shaped curve form. According to Garson, the normal, acceptable scale is +3 to -3. The result shows that their normal distribution was analyzed through a range of skew and kurtosis.

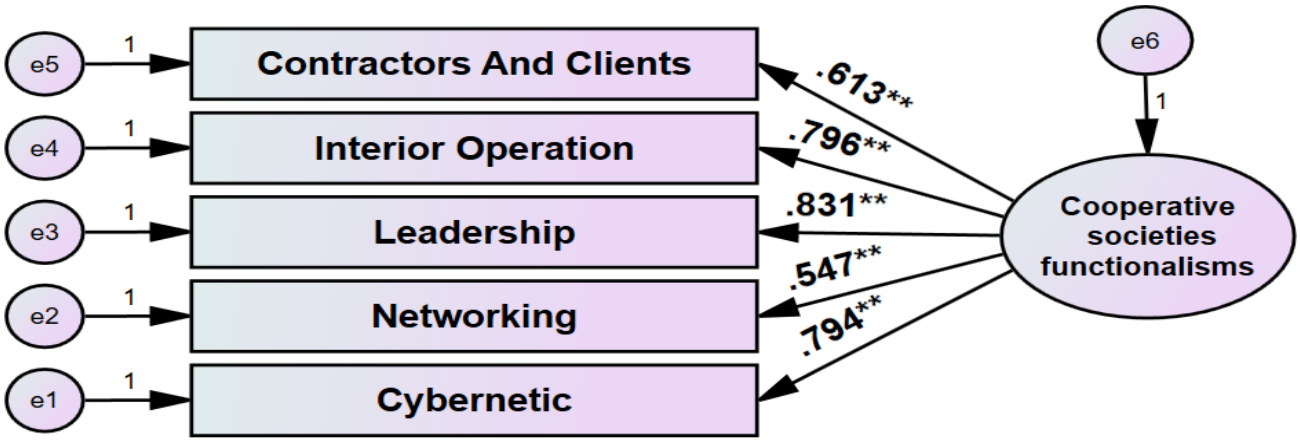
Table 3: Pearson correlation

		Contractor Client relation	Interior Operation	Leadership	Networking	Cybernetics
Cooperative Functionalism	Pearson Correlation	.613**	.796**	.831**	.547**	.794**
	Sig. (2-tailed)	.000	.000	.000	.000	.000
	N	302	302	302	302	302

Foundation: SPSS explanatory interpretation result based on questionnaire experiment, 2022

According to table 3 above, there were statistically significant positive relationships among five determinants of the chain of coffee supply and Cooperative functionalism at $p<0.01$ level. Therefore, we can say that cooperative functionalism had a correlation with all the five explored determinants.

Figure 3: Confirmatory Factor Analysis



Source: AMOS Output (2022)

ASSUMPTION OF MULTICOLLINEARITY (NORMALITY)

Histograms are bar graphs of the residuals with a superimposed normal curve that shows the distribution. So it expresses no normality challenge to the information used for the present study.

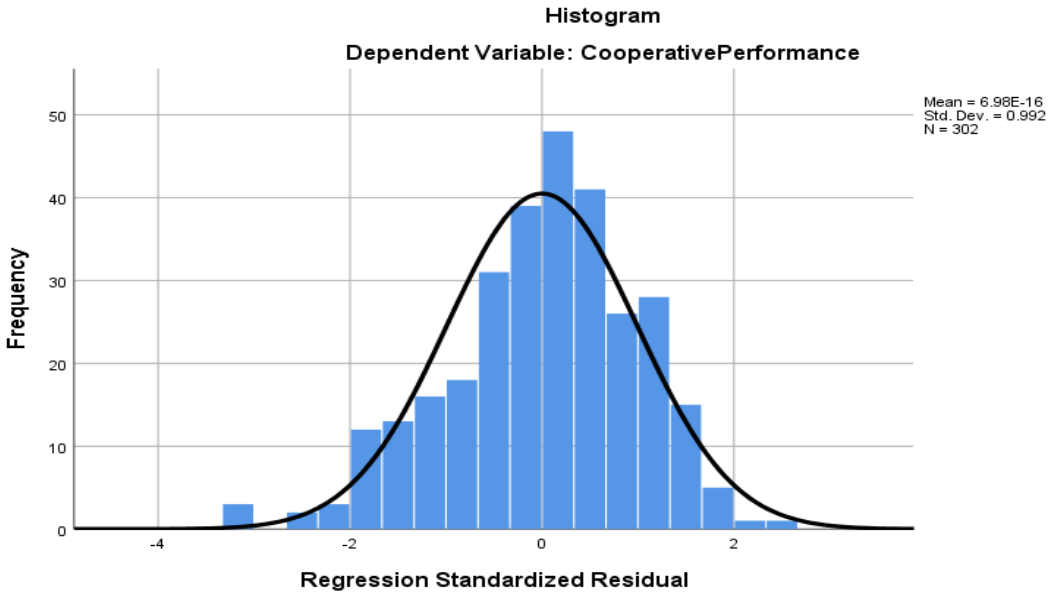


Figure 3. Histogram

LINEARITY

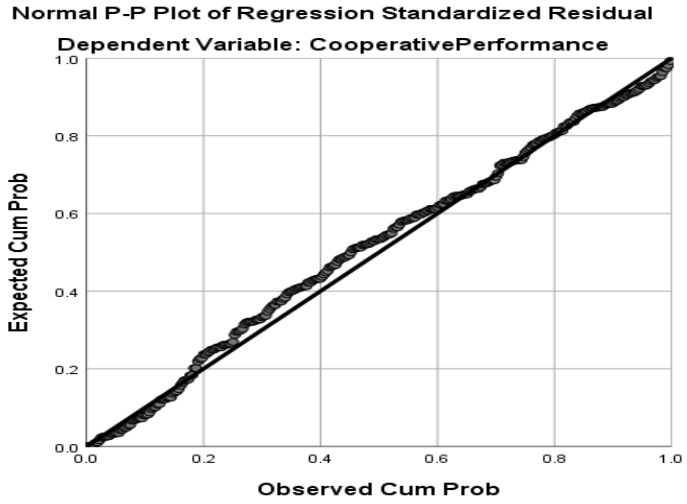


Figure 4. Linearity

Linearity is a straight line. Linear regression calculates as the predicted y worth represented by the regression model for a particular x worth. Graphing residuals can hint about whether residuals. It describes the predictor variables as a linear function with explored variables. (Bahadur et al., 2022) The residual value of the normal p-plot depicted the normality.

Table 4. Model Summary Regression interpretation

Model Summary[b]						
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate		
1	.861[a]	.741	.736	1.94219		
ANOVA[a]						
Model		Sum of Squares	Df	Mean Square	F	Sig.
1	Regression	3190.866	5	638.173	169.183	.000[b]
	Residual	1116.538	296	3.772		
	Total	4307.404	301			
Coefficients[a]						
Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	3.179	.861		3.690	.000
	Contractor Client relation	.533	.081	.410	6.587	.000
	Interior Operation	-.288	.089	-.382	-3.233	.001
	Leadership	1.049	.137	1.365	7.682	.000
	Networking	-.071	.042	-.071	-1.697	0.04

	cybernetics	-.418	.129	-.382	-3.250	.001
a. Dependent Variable: Cooperative Functionalism						

Foundation: SPSS Out Put, 2022

Results in Table 4, show the result of regression interpretation. In this area, the results of the correlation of these two variables and R Square (0. 741[a]) are taken into consideration. It is stated that 74.1% of cooperative Functionalism is elucidated by Logistics Operation management.
The ANOVA describes the test Logistics Operation management used and whether the model is statistically significant and predictive. The mean square of regression (638.173) is more than the mean square of Residual (3.772) and sign cant 000<0.5.
Multiple regression method was used to indicate cooperative functionalism explanation and prediction by the five Supply Cain Operation management. By analyzing the Beta coefficient in table 4, Leadership (1.049) and Contractor Client relation (0.533) have a more comparative influence on cooperative functionalism and Interior Operation (0.-.288), cybernetics (-.418 and Networking (-.071) has a Negative on Cooperative functionalism.
Previous research by Wijerathne, T. (2021); Hewavitharana, C. G. (2021); Grashuis, J., & Su, Y. (2019); Irungu, M. (2019) and Shumeta, Z., & D'Haese, M. (2018) also found the negative and inverse but significant relationship between the determinants of Logistics Operation managements and Cooperative functionalism. Thus these studies supported the result of the present research.

HYPOTHESIS TESTING

Table 5: Hypothesis Testing

Hypothesis	Result	Reason
H1: there is significant relationship between Contractor client Relationships and Cooperative societies' Functionalism	Supported	β= .533, p<0.000
H2: there are significant relationship between Interior operation and Cooperative societies Functionalism	Supported	β = -.288, p<0.001
H3: there are significant relationships between Leadership and Cooperative societies Functionalism	Supported	β = . 1.0497, p<0.000
H4: there are significant relationship networking and Cooperative societies Functionalism	Supported	β = -.071 ,p< 0.04
H5: there are significant relationships between cybernetics and Cooperative societies Functionalism	Supported	β = -.418, p<0.001

Foundation: SPSS output, 2022

CONCLUSION

The interpretation was able to investigate logistics operation management in the area of the logistics associate from coffee planters to the Export phase (reach the hand of the cooperative societies association). LA operations, the area of the chain of coffee supply operation management

of cooperatives, has a great challenge on leadership and IT operations at the different phases. These two operations play a decisive role in creating consequences and efficient LA. Leadership is significantly contributing get better logistics functionalism. Leadership plays a great role for each associate at a different phase of the logistics. Weak facilities of IT lead to weak networking and weak operations abilities that make a logistics administration complex. On to this, client and contractor relationship administration next to the chain of coffee supply is weak. To generate confidence and commitment, networking is required. There is a weak accomplishment of the logistics administration within coffee cooperative societies related with logistics administration.

CONCLUSION

The score of managerial innovation for company X is 57%. The company has innovated in planning, leadership, control, and coordination because these four managerial functions have scores above 50% and can be innovative. Meanwhile organizing function has the lowest score. Organizing function can be improved by converting the organization structure from a function-based organization to a territory-based and or customer-based organization. There are two creation elements that determine the success of innovation, values and organizations. Also, there are four deployment elements that support innovation; they are launch timing, licensing, distribution, and marketing. Further research should explore the correlation between managerial innovations dan product innovations.

LIMITATIONS & FURTHER RESEARCH

The research methodology in the study was only quantitative in research approach. In the future, researchers can apply the sequential exploratory research approach that is a mixture of both qualitative and quantitative. The study is not supported by a theoretical foundation; it is better to use theories for the construction of the model. Only evidence and geographical research gap were used; therefore, further researchers should suggest fulfilling these theoretical, methodological, and knowledge gaps in the present research to extend and further test the research.

REFERENCES

Al Rawashdeh, & Al-Rawashdeh, B. (2021). Advantages and disadvantages of using e-learning in university education: Analyzing students' perspectives. Electronic Journal of e-Learning, 19(3), 107-117.

Alimo, P. K. (2021). Reducing postharvest losses of fruits and vegetables through logistics functionalism evaluation: an illustration of the application of SCOR model. International Journal of Logistics Systems and Administration, 38(3), 384-407.

Arora, S., & Brintrup, A. (2021). How does the position of firms in the logistics affect their functionalism? An empirical study. Applied Network Science, 6(1), 1-31.

Asamoah, D., Nuertey, D., Agyei-Owusu, B., & Akyeh, J. (2021). The consequence of logistics responsiveness on client development. The International Journal of Logistics Administration.

Ayele, G. M (2022). The Consequence of Everything But Arms Trade Preference on the Exports of Ethiopia: Empirical Evidence Using Gravity Model. THE ETHIOPIAN ECONOMICS ASSOCIATION (EEA), 103.

Bag, S., Wood, L. C., Xu, L., Dhamija, P., & Kayikci, Y. (2020). Big information analytics as an operational excellence approach to enhance sustainable logistics functionalism. Refoundations, Conservation and Recycling, 153, 104559.

Bahadur, R., Ruth, K., & Jones, K. T. (2022). Reexamining relative bar functionalism as a function of non-linearity, heteroscedasticity, and a new explained variable. NML Rev., 52, 119.

Bogale, S. A. (2021). Market orientation and functionalism of agro-food worth chains in developing and emerging markets: the area of maize, teff, and beans seed logistics in Ethiopia (Doctoral dissertation, Wageningen University).

Chkanikova, O., & Sroufe, R. (2021). Third-party sustainability certifications in food retailing: Certification design from a sustainable logistics administration perspective. Journal of Cleaner Production, 282, 124344.

de Brauw, A., & Bulte, E. (2021). African Coffee planters, Worth Chains and Agricultural Development. Palgrave Experiments in Agricultural Economics and Food Policy.

De Giovanni, P., & Cariola, A. (2021). Process innovation through industry 4.0 technologies, lean operations and green logistics. Research in Transportation Economics, 90, 100869.

Dolgui, A., & Ivanov, D. (2022). 5G in digital logistics and operations administration: fostering flexibility, end-to-end connectivity and real-time visibility through internet-of-everything. International Journal of Production Research, 60(2), 442-451.

dos Santos, I. M., de Miranda Mota, C. M., & Alencar, L. H. (2021). The strategic alignment among logistics process administration maturity model and competitive strategy. Business Process Administration Journal.

Fattahi, M., & Govindan, K. (2022). Information-driven rolling horizon approach for dynamic design of logistics distribution networks under disruption and demand uncertainty. Decision Sciences, 53(1), 150-180.

Grabs, J., Cammelli, F., Levy, S. A., & Garrett, R. D. (2021). Designing consequenceive and equitable zero-deforestation logistics policies. Global Environmental Change, 70, 102357.

Grashuis, J., & Su, Y. (2019). A review of the empirical literature on farmer cooperatives: Performance, ownership and governance, finance, and member attitude. Annals of Public and Cooperative Economics, 90(1), 77-102.

Guo, L., Chen, J., Li, S., Li, Y., & Lu, J. (2022). A blockchain and IoT based lightweight framework for enabling information transparency in logistics finance. Digital Communications and Networks.

Harrison, C. S. (2021). Analyses of association among aural skills and background variables: LISREL versus multiple regression. Visions of Research in Music Education, 16(1), 76.

Helmold, M., & Terry, B. (2021). Operations and Supply Administration 4.0: Industry Insights, Area Experiments and Best Operations. Springer Nature.

Helmold, M., & Terry, B. (2021). Operations and Supply Administration 4.0: Industry Insights, Area Experiments and Best Operations. Springer Nature.

Helo, P., & Hao, Y. (2021). Artificial intelligence in operations administration and logistics administration: an exploratory area study. Production Planning & Control, 1-18.

Hewavitharana, C. G. (2021). Impact of Global Value Chain on the Performance of SMEs. Available at SSRN 3940380.

Huo, B., Guo, M., & Tian, M. (2022). The impact of logistics specific investments on firms' market functionalism: the mediating role of innovation. Journal of Business & Industrial Marketing.

Idris, L. M., Temesgen, A., & Biftu, D. (2022). MODELING TOTAL OILSEED EXPORT FUNCTIONALISM IN ETHIOPIA: APPLICATION OF DYNAMIC PANEL GRAVITY MODEL (Doctoral dissertation).

Irungu, M. (2019). Firm Level Performance Factors Of Coffee Cooperative Societies In Kenya And The Mediating Role Of Entrepreneurial Orientation (Doctoral dissertation).

Kumar, P., Singh, R. K., & Kumar, V. (2021). Administrating logistics for sustainable operations in the era of industry 4.0 and circular economy: Interpretation of barriers. Refoundations, Conservation and Recycling, 164, 105215.

Madhani, P. M. (2022). Strategic Logistics Administration (SLA): Developing Notionual Framework and Research Propositions. Facets of Business Excellence in IT, 389-399.

Mansfield, C., Hodgkiss, J., Djahel, S., & Nag, A. (2022). An Efficient Detour Computation Scheme for Electric Vehicles to Support Smart Cities' Electrification. Electronics, 11(5), 803.

Matthess, M., Kunkel, S., Xue, B., & Beier, G. (2022). Contractor sustainability investigatement in the age of Industry 4.0–Insights from the electronics industry. Cleaner Logistics and Logistic, 4, 100038

Modgil, S., Singh, R. K., & Hannibal, C. (2021). Artificial intelligence for logistics resilience: Learning from COVID-19. The International Journal of Logistics Administration.

Mukhtar, U., & Azhar, T. (2020). Inter-functional coordination to co-generate worth within assimilated worth chains for competitive logistic. Operations and Logistics Administration: An International Journal, 13(1), 11-22.

Otunmala, S. J. (2021). Strategic Impact of the Forum on China-Africa Cooperation (FOCAC) on Trade and Infrastructural Development in Nigeria,(2000-2019) (Doctoral dissertation, Kwara State University (Nigeria)).

Partanen, J., Kohtamäki, M., Patel, P. C., & Parida, V. (2020). Logistics ambidexterity and manufacturing SME functionalism: The moderating roles of network capability and strategic information flow. International Journal of Production Economics, 221, 107470.

Qin, Z., & Lu, Y. (2021). Self-organizing manufacturing network: A paradigm towards smart manufacturing in mass personalization. Journal of Manufacturing Systems, 60, 35-47.

Ramos, E., Patrucco, A. S., & Chavez, M. (2021). Dynamic capabilities in the "new normal": a study of organizational flexibility, integration and agility in the Peruvian coffee logistic. Logistics Administration: An International Journal.

Richey, R. G., Roath, A. S., Adams, F. G., & Wieland, A. (2022). A responsiveness view of logistics and logistics administration. Journal of Business Logistics, 43(1), 62-91.

Roy, V. (2021). Contrasting logistics traceability and logistics visibility: are they interchangeable? The International Journal of Logistics Administration.

Rudyanto, R., Pramono, R., & Purwanto, A. (2021). The influence of antecedents of logistics integration on company functionalism. Bagchi, PK & Chun HB (2005). Logistics Integration: a European experiment. The International Journal of Logistics Administration, 16(2), 275-294.

Saberi, S., Kouhizadeh, M., Sarkis, J., & Shen, L. (2019). Blockchain technology and its association to sustainable logistics administration. International Journal of Production Research, 57(7), 2117-2135.

Salmani, Y., & Partovi, F. Y. (2021). Channel-level refoundation allocation decision in multichannel retailing: A US multichannel company application. Journal of Retailing and Consumer Services, 63, 102679.

Santistevan, D. (2022). Boundary-spanning coordination: Insights into lateral collaboration and lateral alignment in multinational enterprises. Journal of World Business, 57(3), 101291.

Shin, N., & Park, S. (2021). Logistics leadership driven strategic resilience capabilities administration: A leader-member exchange perspective. Journal of Business Research, 122, 1-13.

Shumeta, Z., & D'Haese, M. (2018). Do coffee farmers benefit in food security from participating in coffee cooperatives? Evidence from Southwest Ethiopia coffee cooperatives. Food and nutrition bulletin, 39(2), 266-280.

Spina, J. D., & Spina, L. J. (2022). Perceptual selection How "Win/Win" Leadership Works. In The New HR. Emerald Publishing Limited.

Stadler, M., Sailer, M., & Fischer, F. (2021). Knowledge as a formative construct: A significant alpha is not always better. New Ideas in Psychology, 60, 100832.

Stekelorum, R., Laguir, I., Gupta, S., & Kumar, S. (2021). Green logistics operation managements and third-party logistics providers' functionalisms: A fuzzy-set approach. International Journal of Production Economics, 235, 108093.

Tadele, E., & Hibistu, T. (2022). Spatial production distribution, economic viability and worth chain features of teff in Ethiopia: Systematic review. Cogent Economics & Finance, 10(1), 2020484.

Tarigan, Z. J. H., Siagian, H., & Jie, F. (2021). Impact of enhanced Enterprise Refoundation Planning (ERP) on firm functionalism through green logistics administration. Sustainability, 13(8), 4358.

Teka, S. (2019). Investigatement Of Logistics Operation managements-A Area Study On Kojj Food Processing Complex Plc (Doctoral Dissertation, St. Mary's University).

Utrilla-Catalan, R., Rodríguez-Rivero, R., Narvaez, V., Díaz-Barcos, V., Blanco, M., & Galeano, J. (2022). Growing Inequality in the Coffee Global Worth Chain: A Complex Network Investigatement. Sustainability, 14(2), 672.

Vegro, C. L. R., & de Almeida, L. F. (2020). Global coffee market: Socio-economic and cultural dynamics. In Coffee consumption and industry strategies in Brazil (pp. 3-19). Woodhead Publishing.

Wei, X., Prybutok, V., & Sauser, B. (2021). Review of logistics administration within project administration. Project Leadership and Society, 2, 100013.

Wijerathne, T. (2021). Impact of Global Value Chain on the Performance of SMEs. Available at SSRN 3940460.

Woreta, K. (2021). The Consequence Of Logistics Operation managements On Logistics Responsiveness And Competitive Advantage Of The Firm-A Area Study On Etete Construction, In Public Building Projects (Doctoral Dissertation, St. Mary's University).

Yafi, E., Tehseen, S., & Haider, S. A. (2021). Impact of green leadership on environmental functionalism through mediating role of competencies and motivation. Sustainability, 13(10), 5624.

Yan, Y., Gupta, S., Licsandru, T. C., & Schoefer, K. (2022). Integrating machine learning, modularity and logistics integration for Branding 4.0. Industrial Marketing Administration, 104, 136-149.

Ye, Y., Hung Lau, K., & Teo, L. (2021). Transforming logistics for a new competitive market alignment–a area study of Chinese fashion apparel companies. International Journal of Logistics Research and Applications, 1-33.

Youniss, D. (2022). The Mediating Role of Client Experience Administration in the Relationship Among E-Commerce and Logistics Operation management. In Digital Transformation Technology (pp. 283-310). Springer, Singapore.

Zhan, J. X. (2021). GVC transformation and a new investment landscape in the 2020s: Driving forces, directions, and a forward-looking research and policy agenda. Journal of International Business Policy, 4(2), 206-220.

Zhou, Q., Meng, C., Yuen, K. F., & Sheu, J. B. (2021). Remanufacturing authorization strategy for an original equipment manufacturer-contract manufacturer logistic: Cooperation or competition? International Journal of Production Economics, 240, 108238.