

Supplementary materials for the paper: Sustainability-811610

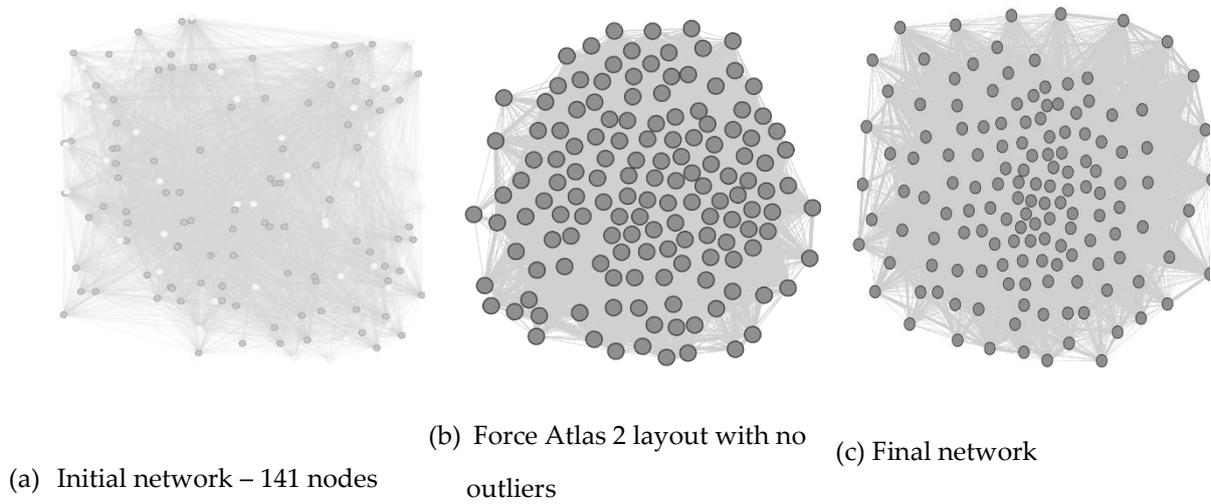


Figure S1. Stages in RFPN analysis visualization using Gephi

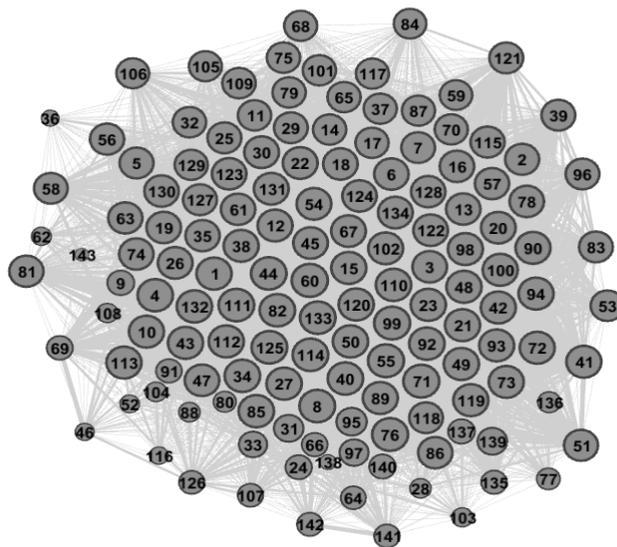
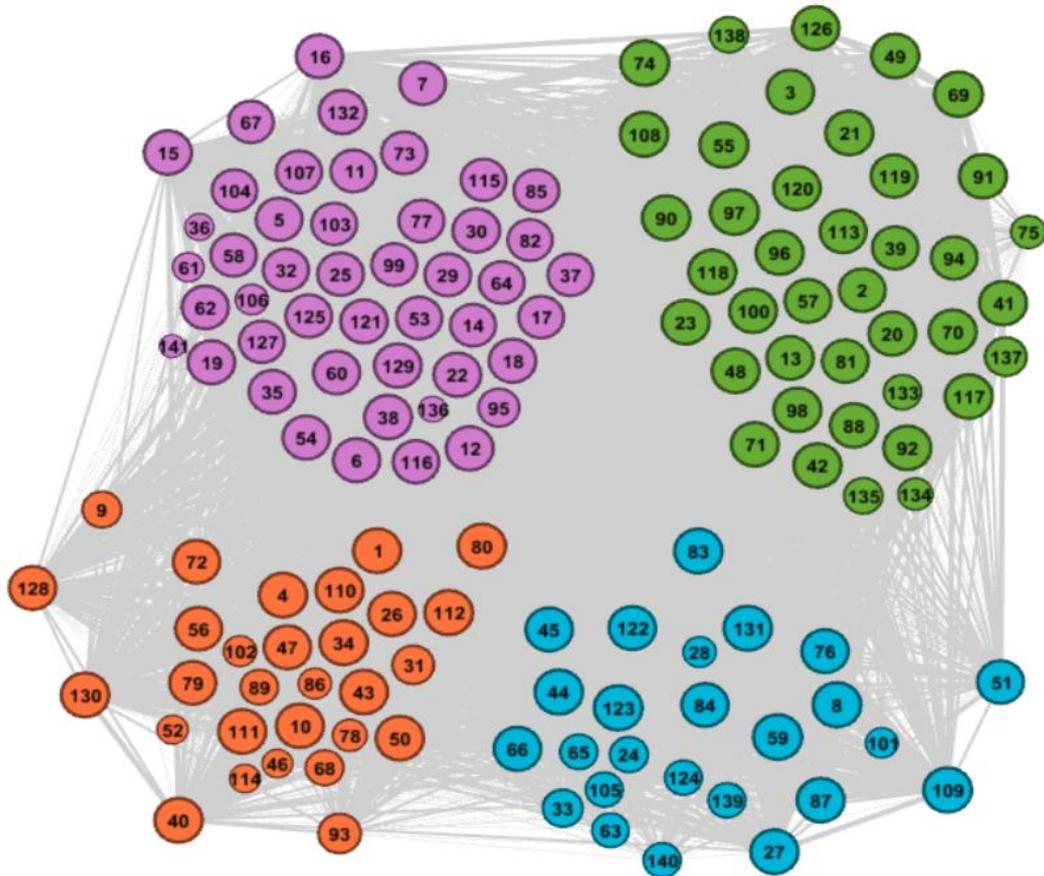


Figure S2. RFPN visualization.

Cluster 1: Vehicle Routing/
Inventory Management

Cluster 2: Scheduling



Cluster 4: Warehousing and Distribution

Cluster 3: Logistics

Figure 3. Clustered RFPN with node size proportional to eigenvector centrality.

Table S1. Publication frequency.

Year	Frequency	Year	Frequency
2018	13	2007	1
2017	15	2006	4
2016	23	2005	2
2015	13	2004	2
2014	13	2003	1
2013	12	2002	0
2012	5	2001	0
2011	9	2000	1
2010	16	1999	0
2009	8	1997	1
2008	5		

Table 2. Number of papers published for the top 10 countries by year.

Country	Year																	Total
	'00	'03	'04	'05	'06	'07	'08	'09	'10	'11	'12	'13	'14	'15	'16	'17	'18	
Iran									4	5		5	16	14	15	6	15	80
USA	1				3		5	4	7	5	2	7	7	10	7	5	7	70
Germany									12	2		3		5		6	6	34
Canada			2					4	1	5					5	10	3	30
China		2						8	2		4	3		1		2	4	26
France										6	1	3		1	8	5		24
Taiwan							2		2		1	2	3		10			20
Brazil												3	6		6			15
Argentina										3		2	2	5				12
Netherlands							2			2			2	2	2	1		11

Table 3. Top 10 articles in RFPN clusters based on eigenvector centrality.

Rank	Cluster 1: Vehicle Routing / Inventory Management		Cluster 2: Scheduling		Cluster 3: Logistics		Cluster 4: Warehousing and Distribution	
	Article	EVC*	Article	EVC	Article	EVC	Article	EVC
1	Dondo and Cerdá (2014)	0.95844	Boloori Arabani and Zandieh (2011)	0.993087	Nasiri <i>et al.</i> (2018)	1	Bellanger and Wilbaut (2013)	0.981028
2	Yin and Chuang (2016)	0.955034	Soltani and Sadjadi (2010)	0.993087	Küçükoğlu and Öztürk (2017)	0.982911	Konur and Golias (2013)	0.974504
3	Nassief and As'ad (2016)	0.953101	Tavana <i>et al.</i> (2017)	0.991169	Dondo and Cerdá (2011)	0.980311	Maknoon, Soumis and Baptiste (2016)	0.974504
4	Dondo and Cerdá (2013)	0.948696	Boloori Arabani and Ghomi (2011)	0.991169	McWilliams (2009)	0.978139	Rahmanzadeh Tootkaleh and Sheikh Sajadieh (2016)	0.970738
5	Liao and Shih (2010)	0.948696	Dondo and Cerdá (2015)	0.971574	Hosseini and Karimi (2014)	0.977161	Cóccola and Dondo (2015)	0.969589
6	Zenker and Boysen (2018)	0.945831	Larbi <i>et al.</i> (2011)	0.971221	Ting and Weng (2003)	0.976237	Agustina and Piplani (2014)	0.969589
7	Stephan and Boysen (2011)	0.945831	Amini and Omidvar (2014)	0.964026	Vis and Roodbergen (2008)	0.97081	Maknoon and Baptiste (2009)	0.965956
8	Keshtzari and Mehdizadeh (2016)	0.945165	Ye <i>et al.</i> (2018)	0.961921	Yang and Cheng, (2010)	0.965429	Kargari Esfand Abad <i>et al.</i> (2018)	0.964417
9	Mousavi and Jolai (2013)	0.938597	Van Belle <i>et al.</i> (2013)	0.961445	Soto Zuluaga and Colomé Perales (2017)	0.956916	Santos and da Cunha (2013)	0.960967
10	Wang <i>et al.</i> (2017)	0.938098	Molavi and Sajadieh (2018)	0.96135	Schwerdfeger and Briskorn (2018)	0.941882	Gümüş and Bookbinder (2004)	0.960148

Appendix S1. List of papers reviewed with the relevant ID

1. Kargari Esfand Abad, Vahdani, B., Sharifi, M., and Etebari, F. (2018) A bi-objective model for pickup and delivery pollution-routing problem with integration and consolidation shipments in cross-docking system, *Journal of Cleaner Production*, 193, 784–801.
2. Amini, A. and Tavakkoli-Moghaddam, R. (2016) A bi-objective truck scheduling problem in a cross-docking center with probability of breakdown for trucks, *Computers & Industrial Engineering*, 96, 180–191.
3. Alpan, G., Larbi, R. and Penz, B. (2011) A bounded dynamic programming approach to schedule operations in a cross docking platform, *Computers & Industrial Engineering*, 60(3), 385–396.
4. Cocco, M., Méndez, C. A. and Dondo, R. G. (2015) A branch-and-price approach to evaluate the role of cross-docking operations in consolidated supply chains, *Computers & Chemical Engineering*, 80, 15–29.
5. Nassief, W., Contreras, I. and Jaumard, B. (2018) A comparison of formulations and relaxations for cross-dock door assignment problems, *Computers & Operations Research*, 94, 76–88.
6. Khalili-Damghani, K., Tavana, M., Santos-Arteaga, F. J., and Ghanbarzad-Dashti, M. (2017) A customized genetic algorithm for solving multi-period cross-dock truck scheduling problems, *Measurement: Journal of the International Measurement Confederation*, 108, 101–118.
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14. Baniamerian, A., Bashiri, M. and Zabihi, F. (2018) A modified variable neighborhood search hybridized with genetic algorithm for vehicle routing problems with cross-docking, *Electronic Notes in Discrete Mathematics*, 66, 143–150.
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16. Mohtashami, A. (2015a) A novel dynamic genetic algorithm-based method for vehicle scheduling in cross docking systems with frequent unloading operation, *Computers & Industrial Engineering*, 90, 221–240.
17. Mokhtarinejad, M., Ahmadi, A., Karimi, B., and Rahmati, S. H. A. (2015) A novel learning based approach for a new integrated location-routing and scheduling problem within cross-docking considering direct shipment, *Applied Soft Computing*, 34, 274–285.

18. Mohtashami, A., Tavana, M., Santos-Arteaga, F. J., and Fallahian-Najafabadi, A. (2015) A novel multi-objective meta-heuristic model for solving cross-docking scheduling problems, *Applied Soft Computing*, 31, 30–47.
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