



Research article

Using DEMATEL, clustering, and fuzzy logic for supply chain evaluation of electric vehicles: A SCOR model

Mehrbakhsh Nilashi^{1,2,*}, Rabab Ali Abumalloh³, Hossein Ahmadi⁴, Mesfer Alrizq^{5,6}, Hamad Abosaq^{6,7}, Abdullah Alghamdi^{6,8}, Murtaza Farooque⁹ and Syed Salman Mahmood¹⁰

¹ UCSI Graduate Business School, UCSI University, 56000, Cheras, Kuala Lumpur, Malaysia

² Centre for Global Sustainability Studies (CGSS), Universiti Sains Malaysia, 11800 Penang, Malaysia

³ Department of Computer Science and Engineering, Qatar University, Doha 2713, Qatar

⁴ Centre for Health Technology, Faculty of Health, University of Plymouth, Plymouth PL4 8AA, UK

⁵ Information Systems Dept., College of Computer Science and Information Systems, Najran University, Najran, Saudi Arabia

⁶ Scientific and Engineering Research Center (SERC), Najran University, Najran, Saudi Arabia

⁷ Computer Science Dept. College of Computer Science and Information Systems, Najran University, Najran, Saudi Arabia

⁸ Information Systems Dept., College of Computer Science and Information Systems, Najran University, Najran, Saudi Arabia

⁹ Department of MIS, Dhofar University, Salalah, Oman

¹⁰ Department of Mathematics & Statistics, Colleges of Arts & Sciences, Abu Dhabi University, United Arab Emirates

* **Correspondence:** Email: nilashidotnet@hotmail.com.

Appendix A

Table 1. A part of decision rules in Cluster 1, Cluster 2, and Cluster 3

Cluster 1
IF Responsiveness in [Very Low]
AND Reliability in [Very Low]
AND Agility in [Very Low] THEN SC Performance = Very Low

AND Agility in [Low] **THEN** SC Performance = Very Low
AND Agility in [Moderate] **THEN** SC Performance = Low
AND Reliability in [Low]
AND Agility in [Very Low] **THEN** SC Performance = Very Low
AND Agility in [Low] **THEN** SC Performance = Very Low
AND Agility in [Moderate] **THEN** SC Performance = Low
AND Reliability in [Moderate] **THEN** SC Performance = Very Low
IF Responsiveness in [Low]
AND Agility in [Very Low] **THEN** SC Performance = Very Low
AND Agility in [Low]
AND Reliability in [Very Low] **THEN** SC Performance = Very Low
AND Reliability in [Low] **THEN** SC Performance = Low
AND Reliability in [Moderate] **THEN** SC Performance = Moderate
AND Agility in [Moderate] **THEN** SC Performance = Low
IF Responsiveness in [Moderate]
AND Agility in [Very Low] **THEN** SC Performance = Low
AND Agility in [Low] **THEN** SC Performance = Low
AND Agility in [Moderate]
AND Reliability in [Very Low] **THEN** SC Performance = Low
AND Reliability in [Low] **THEN** SC Performance = Very Low
AND Reliability in [Moderate] **THEN** SC Performance = Moderate

Cluster 2

IF Responsiveness in [High]
AND Reliability in [High] **THEN** SC Performance = High
AND Reliability in [Moderate] **THEN** SC Performance = Moderate
AND Reliability in [Very High]
AND Agility in [High] **THEN** SC Performance = Very High
AND Agility in [Moderate] **THEN** SC Performance = High
AND Agility in [Very High] **THEN** SC Performance = Very High
IF Responsiveness in [Moderate]
AND Agility in [High] **THEN** SC Performance = High
AND Agility in [Moderate]
AND Reliability in [High] **THEN** SC Performance = High
AND Reliability in [Moderate] **THEN** SC Performance = Moderate
AND Reliability in [Very High] **THEN** SC Performance = High
AND Agility in [Very High] **THEN** SC Performance = High
IF Responsiveness in [Very High]
AND Agility in [High] **THEN** SC Performance = High
AND Agility in [Moderate] **THEN** SC Performance = High
AND Agility in [Very High]
AND Reliability in [High] **THEN** SC Performance = Very High
AND Reliability in [Moderate] **THEN** SC Performance = High
AND Reliability in [Very High] **THEN** SC Performance = Very High

Cluster 3

IF Responsiveness in [Moderate]
AND Reliability in [Moderate]
AND Agility in [Moderate] **THEN** SC Performance = Moderate
AND Agility in [High] **THEN** SC Performance = Moderate
AND Agility in [Very High] **THEN** SC Performance = High
AND Reliability in [Very High] **THEN** SC Performance = High
AND Reliability in [High] **THEN** SC Performance = High
IF Responsiveness in [Very High]
AND Agility in [Moderate] **THEN** SC Performance = High
AND Agility in [High]
AND Reliability in [Moderate] **THEN** SC Performance = High
AND Reliability in [Very High] **THEN** SC Performance = Very High
AND Reliability in [High] **THEN** SC Performance = High
AND Agility in [Very High] **THEN** SC Performance = High
IF Responsiveness in [High]
AND Agility in [Moderate] **THEN** SC Performance = Moderate
AND Agility in [High]
AND Reliability in [Moderate] **THEN** SC Performance = Moderate
AND Reliability in [Very High] **THEN** SC Performance = Very High
AND Reliability in [High] **THEN** SC Performance = High
AND Agility in [Very High]
AND Reliability in [Moderate] **THEN** SC Performance = Moderate
AND Reliability in [Very High] **THEN** SC Performance = Very High
AND Reliability in [High] **THEN** SC Performance = High



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