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Andinusa Rahmandhika; Ali Mokhtar; Herry Suprianto; Mulyono; Faris Rizal Andardi

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Nur Subeki; Achmad Fauzan Hery Soegiharto; Moh. Izzat Kamal Abqary AIP Conference Proceedings 2453, 020009 (2022) doi: https://doi.org/10.1063/5.0094938

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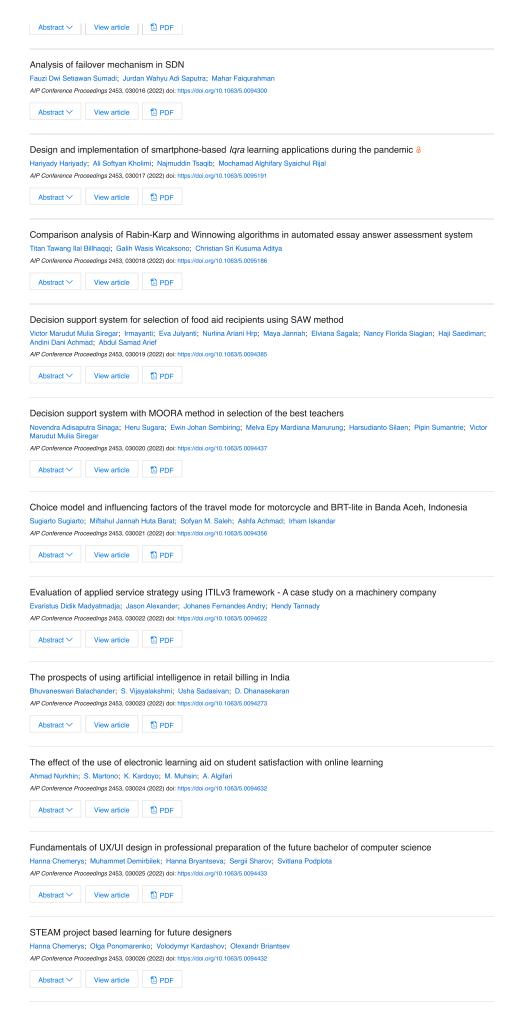
Evaluation of aircraft cabin comfort: Contributing factors, dissatisfaction indicators, and degrees of influence Dian Palupi Restuputri; Kintan Purnamasari; Nur Afni; Sabrina Legtria; Evie Shoffiah; Maya Septia; Ilyas Masudin AIP Conference Proceedings 2453, 020047 (2022) doi: https://doi.org/10.1063/5.0094297 Abstract ✓ View article PDF Industrial area weighbridge simulation model considering vehicle capacity and destination using arena software Muhammad Faisal Ibrahim; Maulin Masyito Putri; Dwi Novita Sari; Dana Marsetiya Utama AIP Conference Proceedings 2453, 020048 (2022) doi: https://doi.org/10.1063/5.0094266 View article 🔁 PDF Integrated analytic hierarchy process and preference ranking organization method for enrichment evaluation II for supplier selection Rahmad Wisnu Wardana; Annisa Kesy Garside; Adhitya Tri Anggara AIP Conference Proceedings 2453, 020049 (2022) doi: https://doi.org/10.1063/5.0094738 View article Improving the efficiency of SPWM (sinusoidal pulse with modulation)-based DC-AC converter and conduction mode on renewable energy Machmud Effendy: Muhammad Naimin Nuha: Widianto AIP Conference Proceedings 2453, 020050 (2022) doi: https://doi.org/10.1063/5.0094927 Abstract ∨ View article 🔁 PDF Hierarchical smart meter data hub initiative for enabling IoT based smart grid in Indonesia Muhammad Nasar: David Raisz AIP Conference Proceedings 2453, 020051 (2022) doi: https://doi.org/10.1063/5.0094764 View article PDF Abstract ✓ Sentiment analysis of Covid-19 vaccine tweets utilizing Naïve Bayes Abdurrahim Abdurrahim; Lailis Syafa'ah; Merinda Lestandy AIP Conference Proceedings 2453, 020052 (2022) doi: https://doi.org/10.1063/5.0094607 🔁 PDF Early detection of breast cancer in histopathology images employing convolutional neural network (CNN) Putri Khalifa Hilaliyah; M. Irfan; Merinda Lestandy AIP Conference Proceedings 2453, 020053 (2022) doi: https://doi.org/10.1063/5.0094608 Abstract ✓ View article 🔁 PDF Detection of heart valve function disorders with artificial neural network (ANN) algorithm Muhammad Bara Al Farisvi: Muhammad Irfan: Amrul Faruq AIP Conference Proceedings 2453, 020054 (2022) doi: https://doi.org/10.1063/5.0094389 🔁 PDF Abstract ✓ View article Face mask detection utilizing "You only look one (YOLOV3)" for Covid-19 response Mohamad Al Fikih; Tri Septiana Nadia Puspita Putri; Nur Kasan; Novendra Setyawan AIP Conference Proceedings 2453, 020055 (2022) doi: https://doi.org/10.1063/5.0094468 Abstract ∨ View article 🛭 PDF Public health face mask detection of Covid-19 utilizing convolutional neural network (CNN) Tri Septiana Nadia Puspita Putri; Mohamad Al Fikih; Nur Kasan; Novendra Setyawan AIP Conference Proceedings 2453, 020056 (2022) doi: https://doi.org/10.1063/5.0094485 🛭 PDF View article K-nearest neighbor imputation for missing value in hepatitis data Arifin Surva Alianso: Lailis Svafaah: Amrul Faruq AIP Conference Proceedings 2453, 020057 (2022) doi: https://doi.org/10.1063/5.0095625 Abstract ∨ View article 🖪 PDF ZMP fuzzy implementation for robot stability optimization Inda Rusdia Sofiani; Nurkasan; Ghufron Wahyu Kurniawa AIP Conference Proceedings 2453, 020058 (2022) doi: https://doi.org/10.1063/5.0094504 PDF Abstract ✓ View article

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Green Supplier Selection and Order Allocation Using AHP-SAW and Goal Programming

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Abstract. In the supply chain, environmental aspects become a concern for stakeholders. One of the strategic decisions in the supply chain field is Green Supplier Selection and Order Allocation (GSSOA). This study proposes the Analytical Hierarchy Process (AHP) and simple additive weight (SAW) and Goal Programming procedures in addressing the GSSOA problem. The five criteria and 13 sub-criteria are utilized in applied to plastic manufacturing companies. Based on AHP, the results indicate that quality criteria present a higher level of importance than cost, delivery, service, and environment. Furthermore, the suitability of the material with specifications (QU1) serves as the sub-criteria with the highest weight. The result of the preference assessment with SAW further indicates that supplier 2 presents the highest preference. The application of goal programming is advantageous to determine the optimal order allocation. The results depict that suppliers 2 and 3 are eligible to supply 150 each to fulfill demand.

INTRODUCTION

Supply chain management (SCM) is designed with integrated planning and control decisions to optimize customer satisfaction and business profitability [1]. When environmental awareness grows, it increasingly generates stakeholder concern to solve environmental problems [2]. Green supply chain management (GSCM) thus provides the right concept to balance economic and environmental factors in the supply chain. In SCM, procurement is considered an important activity to improve company performance. Suppliers contribute to the smooth production process [3, 4] [5], capable of improving the company performance [6]. Therefore, the proper suppliers are importantly selected by the company to maintain business competition [7]. Supplier selection and order allocation processes are thus required by considering qualitative and quantitative variables [8]. In the traditional concept, environmental aspects have been previously excluded from supplier selection and order allocation [9] [10]. Therefore, environmental aspects are pivotal to be considered in supplier selection and order allocation. This problem is popularly referred to as green supplier selection and order allocation (GSSOA).

Researchers have published several studies on GSSOA. Examples include Bakeshlou, et al. [11] proposing the Fuzzy Analytic Network Process (ANP), fuzzy Decision Making Trial and Evaluation Laboratory (Dematel), and multi-objective linear programming (MOLP) methods. Similarly, Hamdan and Cheaitou [12]offered fuzzy Analytical Hierarchy Process (AHP), Technique for Order Preference by Similarity to Ideal Solution (Topsis), and MOLP. Several other procedures were also proposed, including fuzzy ANP, fuzzy DEMATEL, fuzzy Topsis, and weighted goal programming[13], and multi-objective mixed-integer linear programming and DEA [14]. The Double Hierarchy Hesitant Linguistic Term sets and MOLP procedure was particularly proposed by You, et al. [15]. The Fuzzy Goal Programming With Multiple Importance Function method was developed byWong [16]. Recently, several advanced procedures have been proposed, such as a distributional robust goal programming model and tractable approximation.[17], combined with the Best-Worst Method and fuzzy Topsis [18].

In previous studies, the cost of fuel in the delivery of raw materials is rarely considered. Therefore, this study develops an order allocation model by considering the environmental aspects of fuel consumption costs. Furthermore, a goal programming mathematical model is proposed to model the cost of fuel consumption. Therefore, this study proposes a GSSOA procedure by integrating the AHP- simple additive weight (SAW) procedure and Goal programming. This selected model serves as the novelty of this study because this procedure has never been applied in GSSOA. On the other hand, AHP-SAW has been successfully applied to prioritize renewable energy resources[19] and supplier selection [20]. Furthermore, goal programming procedures have been applied to

various problems such as lot sizing[21], and truck allocation [22]. Hence, such aforementioned notion encourages this study to propose AHP-SAW and goal programming in addressing GSSOA problems. In addition, a case study is presented on a manufacturing company in Indonesia.

METHODS

Proposed Method in GSSOA

This section describes a proposed procedure in addressing the GSSOA problem. Figure 1 indicates the five main stages in solving this problem.

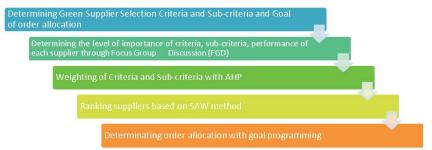


FIGURE 1. The proposed framework for evaluating teacher teaching performance

The first framework is conducted to determine the criteria, sub-criteria, and goals for the GSSOA problem. Focus group discussion (FGD) is proposed to identify criteria, sub-criteria, and goals on this issue. The second stage in the framework is conducted to determine the importance of criteria and sub-criteria through FGD. The AHP method is proposed for weighting the GSSOA criteria and sub-criteria. This method was proposed by Saaty [23], weighting the pairwise comparison scales of 1 (equal importance) to 9 (absolutely more critical). Furthermore, the assessment of each supplier based on each sub-criterion was also conducted through FGDs. For example, some criteria present a rating scale based on a Likert scale of 1 (not good) to 5 (very good). In addition, interval and ratio rating scales are applied to the assessment of each supplier.

The third stage is conducted by weighing the criteria and sub-criteria of the GSSOA problem utilizing AHP. The results of the pairwise comparison of each criterion and sub-criteria are constructed into a matrix as in Equation 1, indicating a pairwise comparison of the criteria. Determination of the importance of pairwise comparisons on the criteria illustrated in Equation 2. Matrix normalization is applied by dividing the value in each column by the number in each column. The principle of the AHP eigenvector is illustrated in Equation 3. In the AHP method, each pairwise comparison matrix is calculated by the consistency ratio (CR) (Equation 5), based on the ratio of the consistency index (CI) value (Equation 4) to the random index (RI) proposed by Saaty [23]. Calculation of global weight sub-criteria is based on the multiplication between criteria and sub-criteria.

The fourth stage is conducted by ranking the supplier priorities based on the SAW procedure. The results of the supplier assessment are presented in a matrix such as in Equation 6. Furthermore, this matrix is normalized based on Equation 7. The results of the normalization matrix () are illustrated in Equation 8. Meanwhile, the preference value for each supplier can be calculated by Equation 9. Finally, the supplier priority in the GSSOA problem is selected based on the biggest. RVi value. The followings are Equation 1 to Equation 9.

$$A = \begin{bmatrix} a_{11} & \dots & a_{1k} \\ a_{21} & \dots & a_{2k} \\ a_{k1} & \dots & a_{kk} \end{bmatrix}$$
 (1)

$$a_{pq}0, a_{pp} = 1 \tag{2}$$

$$A. w = \lambda_{max}. w \tag{3}$$

$$CI = \frac{\lambda_{max} - k}{k - 1} \tag{4}$$

$$CR = \frac{CI}{RI} \tag{5}$$

$$A. W = \lambda_{max}. W$$

$$CI = \frac{\lambda_{max} - k}{k - 1}$$

$$CR = \frac{CI}{RI}$$

$$X = \begin{bmatrix} x_{11} & \dots & x_{1k} \\ x_{21} & \dots & x_{2k} \\ x_{i1} & \dots & x_{ik} \end{bmatrix}$$
(6)

$$r_{ik} = \begin{cases} r_{ik} = \frac{x_{ik}}{\text{Max } x_{ik}} & \text{If k is benefit attribute} \\ r_{ik} = \frac{\text{Min } x_{ik}}{x_{ik}} & \text{If k is cost attribute} \end{cases}$$

$$R = \begin{bmatrix} r_{11} & \dots & r_{1k} \\ r_{21} & \dots & r_{2k} \\ r_{i_1} & \dots & r_{ik} \end{bmatrix}$$
(8)

$$R = \begin{bmatrix} r_{11} & \dots & r_{1k} \\ r_{21} & \dots & r_{2k} \\ r_{i_{1}} & \dots & r_{ik} \end{bmatrix}$$
 (8)

$$V_i = \sum_{k=1}^q w_j \, r_{ik} \tag{9}$$

The fifth stage is conducted by determining the order allocation using the goal programming method. The output generated in SAW is utilized as one of the goals to maximize the total weight of the purchase. This study sets five goals in order allocation optimization. The goal programming notations are as follows:

qi : supplier defect rate-i : supplier index, i = 1, 2, 3, ..., n: index goal, j = 1, 2, 3, ..., mDis; : distance supplier-i

: supplier order quantity-i Kpl: fuel consumption liter/kilometer : supply capacity of supplier-i : binary integer 0 AND 1

: The target to be achieved by the goal *j* cf : fuel price

: positive deviation for goal-j : supplier-i preference based on AHP-SAW : negative deviation for goal-i : product price supplier-i

: supplier ordering cost-i

The mathematical formula of the goal programming model of the GSSOA problem is presented as follows:

$$\min Z = \sum_{j=1}^{m} d_j^+ + d_j^-$$
 (10)

$$\sum_{i=1}^{n} Vi.Xi.Yi + d_{1}^{-} - d_{1}^{+} = G1$$
(11)

$$\sum_{i=1}^{n} qi.Xi.Yi + d_2^+ - d_2^- = G2$$
 (12)

$$\sum_{i=1}^{n} Pi.Xi.Yi + d_3^- - d_3^+ = G3$$
 (13)

$$\sum_{i=1}^{n} 0i.Yi + d_{4}^{-} - d_{4}^{+} = G4$$
 (14)

$$\sum_{i=1}^{n} \left(\frac{Dis_i}{Kpl} * C_f \right) Yi + d_5^- - d_5^+ = G5$$
 (15)

$$\sum_{i=1}^{n} Xi = D \tag{16}$$

$$Xi \le Ki.Yi$$
 (17)

$$d_i^+, d_i^- \ge 0, j = 1, 2, ..., m$$
 (18)

$$Xi \ge 0, i = 1, 2, ..., n$$
 (19)

$$Yi \ge 0 \text{ or } 1, i = 1, 2, ..., n$$
 (20)

Equation 10 contains the objective function of the mathematical model to minimize the deviation from the goal. Equation 11 indicates that goal 1 is to maximize total supplier purchasing preferences. Equation 12 indicates that the goal 2 is aimed at minimizing defective goods from suppliers. Equation 13 indicates that goal 3 is to minimize the purchase price from suppliers. Furthermore, Equation 14 indicates that goal 4 is to minimize the cost of ordering from suppliers. Formula goal 5 is to minimize transportation costs as indicated by Equation 15. Equation 16 indicates the demand constraint. Equation 17 presents a formula that shows the limit of supplier capacity. Equation 18 indicates that the positive and negative deviation of the goal cannot be less than 0. Equation 19 indicates that the limitation that the order quantity of supplier-i cannot be negative. Meanwhile, Equation 20 indicates that it is a binary number that represents whether an order was made from supplier i.(X_i) Y_i

Case study

In this study, a case study was conducted on the Plastic Manufacturing Industry in Indonesia. The purchasing manager and purchasing staff were selected as the FGD panel team. To address the GSSOA problem, the five criteria and 13 sub-criteria are utilized to solve the problem. Table 1 indicates the criteria and sub-criteria used in the GSSOA problem. FGD was carried out in a pairwise comparison assessment of criteria and sub-criteria. The results of the assessment of 4 suppliers in each sub-criteria are illustrated in Table 2. In this assessment, the sub-criteria QU3, CO1, and CO2 employ the interval and ratio assessment scales. In addition, the assessment was conducted using a Likert scale. The goal programming data for the GSSOA problem is presented in Table 3. The KPL value is 8 kilometers/liter, and the fuel price (Cf) is IDR 7600, and the demand for raw materials is 300.

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Criteria	Sub Criteria	Code	Type	Unit of Measurement
Quality (QU)	- Materials according to specifications	QU1	Benefits	Likert
~ , ,~ ,	- Consistent product quality	QU2	Benefits	Likert
	- Disability rate	QU3	Cost	% Defects
Cost (CO)	- Product Price	CO1	Cost	Price (IDR)
	- Order Fee	CO2	Cost	Cost (IDR)
Delivery (DE)	- Order quantity accuracy	DE1	Benefits	Likert
	- On-time Delivery	DE2	Benefits	Likert
	- Fulfilment capacity	DE3	Benefits	Likert
Services (SE)	- Replacement of damaged goods	SE1	Benefits	Likert
	- Flexible	SE2	Benefits	Likert
Environmental	- Eco-friendly material	EN1	Benefits	Likert
Issues (EN)	- Environment-related certificates (ERC)	EN2	Benefits	Likert
	- Fuel consumption in product delivery	EN3	Benefits	Likert

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supplier i	QU1	QU2	QU3	CO1	CO2	DE1	DE2	DE3	SE1	SE2	EN1	EN2	EN3
Supplier 1	3	2	0.025	9500	7500	2	3	3	2	3	2	2	4
Suppliers 2	5	5	0.02	9400	7000	2	4	5	2	2	4	2	3
Suppliers 3	2	4	0.015	9500	7500	2	4	2	5	3	5	2	3
Suppliers 4	2	5	0.015	9450	7400	2	5	3	2	2	3	4	4

TABLE 3. Goal programming data for the GSSOA problem

supplier i	Pi	Oi	qi	Distance	Capacity
Supplier 1	9500	7500	0.025	15	100
Suppliers 2	9400	7000	0.02	20	150
Suppliers 3	9500	7500	0.015	15	150
Suppliers 4	9450	7400	0.015	17	100
Goal	2830000	14500	4.75	332	250

RESULTS AND DISCUSSION

The results of the weighting of the five criteria and 13 sub-criteria of GSSOA are presented in Table 4, indicating that the suitability of the material with the specifications (QU1) produces the highest weight followed by Product Price (CO1), and the level of the defect (QU3). The results of this study are by the findings of research conducted by Li, et al. [6]. In the area of GSSOA research, environmental criteria have not become a company priority, confirming the research findings of Erfaisalsyah, et al. [24], revealing that environmental criteria have low importance.

In addressing the GSSOA problem, AHP weight is utilized as an assessment of supplier priority preferences. The results of the preference calculation with SAW are presented in Figure 2, indicating that the priority order of

supplier 2, supplier 1, supplier 3, and the lowest priority is supplier 4. However, the preference values of supplier 1, supplier 3, and supplier 4 are not significantly different. Furthermore, these results are employed as order allocation optimization. Based on linear programming optimization, goal 1 of the total supplier purchasing preference is 270.95.

TABLE 4. Results of weighting criteria and sub-criteria of green supplier selection

No	Criteria	Weight	Sub-Criteria Code	Weight	Global Weight
			QU1	0.5710	0.2056
1	Quality (QU)	0.360	QU2	0.1430	0.0515
			QU3	0.2860	0.1030
2	Cost (CO)	0.254	CO1	0.6670	0.1694
	Cost (CO)	0.234	CO2	0.3330	0.0846
			DE1	0.4290	0.0781
3	Delivery (DE)	0.182	DE2	0.4290	0.0781
			DE3	0.1430	0.0260
4	Services (SE)	0.111	SE1	0.3330	0.0370
4	Services (SE)	0.111	SE2	0.6670	0.0740
			EN1	0.2000	0.0188
5	Environmental Issues (EN)	0.094	EN2	0.2000	0.0188
			EN3	0.6000	0.0564

Based on optimization with goal programming, the optimal order allocation is as follows: the order quantity at suppliers 2 and 3 is 150. In optimal results, Goal 1 and Goal 3 are not achieved. Goal 1 has a deviation from the target of 5.9. In goal 3, the optimal value is generated at 5000 deviations.

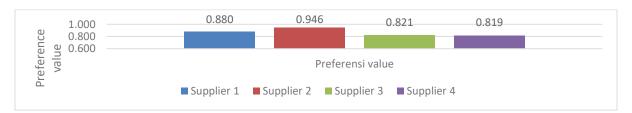


FIGURE 2. The results of the calculation of preferences with the SAW method

CONCLUSION

The research proposes AHP-SAW along with the programming goals in addressing the GSSOA problems. Based on AHP, the suitability of material with specifications (QU1) presents the greatest weight compared to other subcriteria. Based on SAW, supplier 2 presents a better level of preference among other suppliers. The programming goal results show that order allocation meeting demand is 150 for suppliers 2 and 3. However, this study has limitations that do not consider the interrelationships between criteria and sub-criteria. Thus, further research is encouraged to consider the relationship between criteria and sub-criteria.

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