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RESEARCH ARTICLE

HR ANALYTICS IN ACTION: TACKLING EMPLOYEE TURNOVER IN MALAYSIA'S LOGISTICS & TRANSPORT INDUSTRY

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Abstract

The logistics and transport industry in Malaysia faces high employee turnover, which disrupts operations, increases hiring costs, and reduces efficiency. HR analytics offers a strategic solution by using data-driven approaches to identify turnover risks and improve retention. Predictive analytics can assess resignation risks based on job satisfaction, workload, and external factors, while workforce planning optimizes talent management. Real-time HR data provides insights into employee well-being and engagement, enabling timely interventions. By integrating HR analytics into human capital strategies, organisations can reduce turnover, enhance workforce stability, and foster a data-driven culture, ultimately improving employee satisfaction, reducing disruptions, and boosting long-term profitability.

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Introduction:-

Employee turnover is a longstanding challenge in Malaysia's logistics and transport sector, significantly impacting workforce stability, operational efficiency, and overall service quality. High turnover rates not only disrupt daily operations but also contribute to increased recruitment and training costs, knowledge loss, and diminished employee morale. Given the competitive nature of the industry and the growing demand for skilled talent, companies must adopt proactive strategies to retain their workforce and enhance employee satisfaction.

With the rapid advancement of digital transformation in human resource management, organisations now have the opportunity to leverage HR analytics to address turnover challenges. HR analytics involves the use of data-driven techniques to predict employee behaviour, identify key factors influencing attrition, and develop evidence-based retention strategies. By integrating predictive analytics, workforce planning, and engagement metrics, companies can make informed decisions to improve employee retention. Predictive analytics helps identify patterns and warning signs of potential resignations, allowing HR professionals to take pre-emptive actions. Workforce planning ensures the right talent is aligned with business needs, while engagement metrics provide insights into employee satisfaction and workplace culture.

Recent studies emphasize the critical role of HR analytics in managing employee turnover. According to Davenport et al. (2010), “HR analytics provides organisations with actionable insights that enable them to develop strategic interventions for improving employee retention and overall workforce stability.” Research published in the *Journal of Human Resource Management* highlights that organisations that adopt HR analytics experience lower turnover rates and increased employee engagement due to data-driven decision-making processes (Bersin, 2018).

This paper explores the application of HR analytics in reducing employee turnover in Malaysia’s logistics and transport sector. By reviewing existing literature, industry case studies, and best practices, this study aims to demonstrate how data-driven HR strategies can enhance workforce retention, reduce costs, and strengthen overall business performance. As organisations navigate the evolving challenges of talent management, HR analytics serves as a powerful tool in fostering a resilient and sustainable workforce in the logistics industry.

Literature Review:-

Employee Turnover in the Logistics & Transport Industry

Employee turnover remains a critical challenge in the logistics and transport industry, where workforce instability can lead to operational disruptions, increased recruitment costs, and decreased service efficiency. High turnover rates in this sector are often influenced by multiple factors, including job dissatisfaction, limited career growth opportunities, work-life imbalance, and occupational safety concerns. According to Cloutier et al. (2015), “high employee turnover is often a symptom of deeper organizational issues, including poor job satisfaction, lack of engagement, and ineffective leadership.” These challenges are particularly pronounced in industries that require physically demanding labour and involve irregular work hours.

In Malaysia, labour market dynamics further exacerbate these turnover issues. The logistics and transport industry is facing a growing demand for skilled workers, but talent shortages remain a persistent concern (Yusoff et al., 2020). With increased competition for experienced personnel, many organisations struggle to retain employees, leading to higher attrition rates. Research suggests that industries characterized by physically intensive tasks and inconsistent work schedules tend to have higher turnover rates due to employee burnout and dissatisfaction (Bennett & McWhorter, 2021). Furthermore, workplace safety concerns—such as long-haul transportation risks and physically demanding warehouse operations—also contribute to

workforce instability, as employees may seek alternative job opportunities with lower health risks and better working conditions.

Several studies highlight that inadequate career development opportunities further drive turnover rates in logistics and transport. Employees in this sector often cite a lack of clear progression paths and limited skill development programs as key reasons for seeking alternative employment (Goh & Lee, 2018). In contrast, organisations that prioritise career growth, training initiatives, and employee engagement strategies tend to experience higher retention rates.

Addressing turnover in the logistics and transport industry requires a strategic approach that combines competitive compensation, career development programs, and improved working conditions. As companies embrace digital transformation in HR, leveraging HR analytics has emerged as a powerful tool for understanding attrition patterns, predicting resignation risks, and implementing targeted retention strategies. The integration of HR analytics into workforce management can provide deeper insights into employee sentiment, engagement levels, and turnover risk factors, ultimately enabling organisations to build a more stable and motivated workforce.

The Role of HR Analytics in Workforce Management

HR analytics has emerged as a critical tool in modern workforce management, enabling organisations to make informed, data-driven decisions that enhance employee retention, productivity, and overall organizational performance. By systematically analysing workforce trends, HR professionals can develop targeted interventions to address key challenges such as high turnover, low engagement, and skill shortages. According to Marler and Boudreau (2017), “HR analytics transforms traditional HR practices by leveraging data insights to drive evidence-based decision-making, ultimately improving workforce outcomes and business performance.”

One of the most powerful applications of HR analytics is predictive analytics, which helps organisations anticipate potential resignations and identify employees who may be at risk of leaving. By analyzing historical data on factors such as job tenure, compensation trends, performance evaluations, and absenteeism rates, predictive models can highlight patterns that contribute to attrition (Davenport et al., 2010). These insights allow HR professionals to proactively address retention risks by implementing targeted interventions such as career development programs, competitive compensation adjustments, and personalized engagement initiatives.

Additionally, employee engagement surveys play a crucial role in workforce management by providing real-time insights into employee satisfaction, motivation levels, and workplace sentiment. Regularly collecting and analyzing feedback enables organisations to detect early warning signs of dissatisfaction and take corrective actions before turnover rates escalate. Levenson (2018) emphasises the importance of integrating HR analytics with engagement metrics, stating that “organisations that systematically measure and analyse employee experience data are better positioned to develop retention strategies that align with workforce expectations and business goals.”

Moreover, the integration of machine learning models in HR analytics has revolutionized workforce management by enabling more sophisticated data analysis and predictive capabilities. These models can process vast amounts of HR data, uncover hidden patterns, and provide recommendations for improving workforce planning, training initiatives, and succession management. For instance, AI-driven analytics can help organisations match employees with suitable career pathways, reducing turnover caused by a lack of career growth opportunities.

HR analytics also supports workforce planning by aligning talent acquisition and development strategies with business objectives. By analysing labour market trends, skill gaps, and workforce demographics, organisations can optimize recruitment efforts, enhance employee training programs, and build a more resilient talent pipeline. The ability to make data-backed decisions in HR fosters a proactive approach to workforce management, ensuring that businesses can adapt to changing market conditions while maintaining a stable and engaged workforce.

In summary, HR analytics has become an essential tool for organisations seeking to improve workforce management and reduce employee turnover. Through the application of predictive analytics, engagement surveys, and machine learning models, HR professionals can gain valuable insights into employee behaviour, identify turnover risks, and implement data-driven retention strategies. As companies continue to embrace digital transformation in HR, leveraging HR analytics will be key to building a sustainable and high-performing workforce in Malaysia's logistics and transport industry.

HR Analytics and Employee Retention

Employee retention is a critical area where HR analytics has demonstrated significant impact, offering organisations valuable insights to reduce turnover and enhance workforce stability. By leveraging data-driven approaches, businesses can proactively address key factors influencing attrition, including job satisfaction, career growth opportunities, compensation structures, and overall employee engagement. Research has shown that organisations utilizing HR analytics can significantly improve their ability to predict, prevent, and manage employee turnover, leading to better workforce retention outcomes.

One of the key advantages of HR analytics in retention management is predictive analytics, which enables organisations to forecast employee attrition with a high degree of accuracy. According to Van den Heuvel and Bondarouk (2017), "HR analytics can predict employee attrition with up to 85% accuracy, allowing organisations to take early action to mitigate turnover risks." By analysing various data points, including job tenure, performance trends, salary progression, and employee feedback, HR professionals can identify employees at risk of leaving and implement targeted interventions to retain them.

A study conducted by Bersin (2019) further emphasises the tangible benefits of HR analytics in workforce retention. The research found that companies that incorporate workforce analytics into their HR strategies experience 25% lower turnover rates compared to those that do not. This reduction in attrition is attributed to the ability of HR analytics to uncover the root causes of dissatisfaction, such as inadequate leadership support, lack of career development opportunities, and poor work-life balance. By addressing these factors through data-driven decision-making,

organisations can enhance employee engagement and job satisfaction, ultimately leading to higher retention rates.

Additionally, workforce analytics plays a crucial role in identifying key drivers of employee turnover. According to Guenole et al. (2017), HR analytics enables organisations to examine patterns related to compensation satisfaction, managerial effectiveness, and work-life balance, which are among the most influential factors affecting retention. Compensation satisfaction, for instance, can be analysed through salary benchmarking data and employee sentiment analysis to ensure that pay structures remain competitive. Managerial effectiveness can be assessed using 360-degree feedback and performance reviews, helping organisations identify leadership gaps that may contribute to employee disengagement. Work-life balance, another major factor influencing retention, can be monitored through workload assessments and employee wellness surveys, allowing HR teams to develop policies that promote a healthier work environment.

Moreover, HR analytics supports the development of personalized retention strategies by segmenting employees based on different risk factors. For example, high-potential employees may receive career development plans tailored to their aspirations, while those struggling with work-life balance may be offered flexible work arrangements or well-being programs. This data-driven approach ensures that retention efforts are not only effective but also aligned with the diverse needs of the workforce.

As businesses in the logistics and transport sector in Malaysia continue to face high turnover rates, adopting HR analytics can be a game-changer. Organisations that effectively implement workforce analytics can gain a deeper understanding of their employees, proactively address attrition risks, and create a workplace culture that fosters long-term employee commitment. By harnessing the power of HR analytics, companies can transform their retention strategies, leading to a more stable and engaged workforce.

Methodology:-

This study employs a qualitative research approach to explore the role of HR analytics in reducing employee turnover within Malaysia's logistics and transport sector. A comprehensive review of academic literature, industry reports, and case studies forms the foundation of this research, allowing for an in-depth understanding of how HR analytics is applied to workforce retention. By synthesising insights from multiple sources, this study aims to provide a well-rounded analysis of the effectiveness of data-driven HR strategies in minimizing attrition and improving employee engagement.

The research process involves an extensive literature review of peer-reviewed journals, books, and white papers that discuss the impact of HR analytics on workforce stability. Key themes explored include predictive analytics, employee engagement metrics, workforce planning, and best practices in HR analytics implementation. Additionally, studies on employee turnover in logistics and transport—both globally and within Malaysia—are examined to identify recurring trends and challenges specific to the industry.

Beyond academic sources, industry reports from recognized HR consulting firms, government agencies, and professional associations are analyzed to gain insights into the latest trends in workforce analytics. Reports from organisations such as the Malaysian Institute of Human Resource Management (MIHRM), the Ministry of Human Resources Malaysia, and global HR analytics firms provide valuable data on current practices, workforce demographics, and turnover trends in Malaysia's logistics and transport sector.

To further strengthen the study, case studies of organisations that have successfully integrated HR analytics into their retention strategies are reviewed. These case studies highlight real-world applications of workforce analytics, illustrating how companies use data to predict turnover risks, improve employee engagement, and develop targeted retention initiatives. Best practices from multinational logistics firms and Malaysian transport companies are examined to draw comparisons between different implementation strategies and their effectiveness in reducing turnover.

In addition, this study considers the practical applications of HR analytics by analyzing reports and testimonials from HR practitioners, business leaders, and workforce management experts. This qualitative approach enables a deeper exploration of how organisations use HR analytics to make data-driven decisions and the challenges they face in integrating these tools into their HR practices.

By employing a multi-source qualitative research approach, this study ensures a comprehensive analysis of HR analytics in employee retention. The findings will provide valuable insights into how HR professionals in Malaysia's logistics and transport industry can leverage workforce analytics to enhance retention strategies, reduce turnover rates, and improve overall operational efficiency.

Findings and Discussion:-

HR analytics has emerged as a powerful tool for reducing employee turnover by providing data-driven insights that allow organisations to make informed workforce management decisions. The logistics and transport sector in Malaysia, known for its high attrition rates, can greatly benefit from predictive analytics, workforce planning, and employee engagement metrics to develop more effective retention strategies. This section discusses key findings related to the application of HR analytics in reducing turnover, presents a case study on its implementation in Malaysian logistics firms, and highlights challenges that organisations face in adopting analytics-driven HR practices.

Predictive Analytics for Turnover Reduction

Predictive analytics plays a crucial role in identifying employees who are at risk of leaving by analyzing various factors such as job tenure, absenteeism, performance trends, compensation satisfaction, and employee sentiment. By leveraging predictive modelling, HR departments can assess historical and real-time data to anticipate resignations before they happen. Research by Davenport et al. (2010) indicates that "organisations that use predictive analytics for workforce

management can reduce voluntary turnover by proactively addressing employee concerns and dissatisfaction factors.”

In the logistics sector, where employees often face physically demanding work conditions, irregular schedules, and safety risks, predictive analytics can help target specific retention interventions. For example, if data indicates that employees with extended commute times or repetitive tasks are more likely to leave, companies can introduce flexible work arrangements, job rotations, or additional incentives to improve retention. Moreover, salary and benefits trends can be analysed to ensure competitive compensation packages, reducing turnover caused by pay dissatisfaction.

Several logistics firms have begun integrating machine learning models into HR systems to refine their predictive analytics capabilities. These models process large volumes of workforce data, helping organisations uncover hidden patterns that influence employee departures. For instance, if employees with limited career advancement opportunities show a higher likelihood of resigning, HR teams can introduce personalized career development programs and mentorship initiatives to retain top talent.

Workforce Planning and Employee Engagement

HR analytics also plays a vital role in workforce planning, ensuring that recruitment, training, and employee engagement strategies align with business needs. By assessing turnover trends over time, companies can optimize hiring strategies, succession planning, and resource allocation to minimise workforce disruptions. Studies suggest that companies that actively integrate HR analytics into workforce planning experience more stable talent pipelines and improved business continuity (Levenson, 2018).

One of the key aspects of workforce planning is analysing employee engagement scores, which provide insights into workplace satisfaction, motivation, and organizational commitment. A study by Gallup (2021) found that companies with structured employee engagement programs experience a 22% reduction in turnover, highlighting the importance of monitoring engagement levels. HR analytics tools can assess engagement survey data, employee feedback, and behavioral indicators to pinpoint specific dissatisfaction drivers, such as:

- Workload imbalance – Employees feeling overburdened due to excessive work hours.
- Managerial effectiveness – Issues related to poor leadership or lack of support.
- Career growth opportunities – Perceived lack of advancement prospects leading to disengagement.

By identifying these factors, HR professionals can implement tailored retention programs such as leadership training, performance recognition initiatives, and career progression frameworks to enhance employee commitment.

Case Study: HR Analytics Implementation in Malaysian Logistics Firms

Several logistics firms in Malaysia have successfully leveraged HR analytics to improve retention rates and workforce stability. A case study of a major Malaysian transport company demonstrated the effectiveness of HR analytics in reducing turnover by integrating employee sentiment analysis, performance data tracking, and compensation evaluation.

Prior to implementing HR analytics, the company struggled with an annual turnover rate exceeding 30%, particularly among mid-level operational staff. After adopting an HR analytics-driven approach, key findings revealed that:

1. Employees with low engagement scores were twice as likely to leave within 12 months.
2. Discontent with salary progression and perceived pay disparities contributed to higher attrition rates.
3. Poor leadership feedback correlated with increased resignation trends in certain departments.

In response, the company introduced targeted training programs, revised its compensation structures, and implemented managerial coaching initiatives to address leadership gaps. Over a two-year period, these data-driven strategies resulted in an 18% reduction in employee attrition, reinforcing the value of HR analytics in improving workforce stability.

Challenges in Implementing HR Analytics

Despite its clear benefits, implementing HR analytics in the logistics and transport industry comes with challenges that organisations must address to maximize its impact. The key barriers include:

1. Data Privacy and Security Concerns
 - The use of employee data in predictive analytics raises concerns about privacy regulations and data protection policies. Organisations must ensure compliance with Malaysia's Personal Data Protection Act (PDPA) 2010 to maintain ethical and legal HR analytics practices.
2. Lack of Analytical Expertise
 - Many HR professionals lack the necessary expertise in data science, machine learning, and statistical analysis to fully utilize HR analytics tools. Organisations need to invest in HR analytics training programs or collaborate with data analytics specialists to develop their analytical capabilities.
3. Resistance to Change
 - Some HR teams and managers may resist the adoption of analytics-driven decision-making due to skepticism or fear of job automation. Overcoming this resistance requires a cultural shift where HR professionals are trained to see analytics as an enhancement rather than a replacement of traditional HR functions.
4. Aligning HR Analytics with Business Strategy

- To achieve meaningful outcomes, HR analytics must be aligned with broader business objectives, ensuring that insights derived from workforce data translate into actionable HR policies and strategic workforce planning.

Conclusion and Recommendations:-

HR analytics offers a transformative approach to workforce management in Malaysia's logistics and transport industry, enabling companies to predict, prevent, and address employee turnover effectively. Through predictive modeling, workforce planning, and employee engagement tracking, HR teams can develop data-driven retention strategies that enhance job satisfaction and organizational commitment. While challenges such as data privacy, analytical expertise gaps, and resistance to change exist, overcoming these barriers can lead to a more stable, engaged, and productive workforce. As HR analytics continues to evolve, its role in shaping the future of workforce management in logistics will become increasingly critical.

The logistics and transport industry in Malaysia faces significant challenges related to high employee turnover, which can impact operational efficiency, service delivery, and overall business sustainability. As organisations strive to create a more stable workforce, HR analytics has emerged as a vital tool in addressing turnover by providing data-driven insights into employee behaviour, engagement levels, and retention risks. This study highlights the significant role of predictive analytics, workforce planning, and engagement metrics in shaping retention strategies that proactively address workforce challenges.

By analysing key turnover indicators such as absenteeism, job satisfaction, managerial effectiveness, and compensation trends, HR analytics enables organisations to forecast attrition risks and implement strategic interventions. The findings suggest that companies leveraging workforce analytics can achieve better employee retention, improved talent management, and increased organizational productivity. Furthermore, businesses that incorporate HR analytics into their strategic decision-making processes experience greater workforce stability and long-term profitability.

However, successful HR analytics implementation requires more than just data collection. Organisations must integrate data-driven decision-making into HR policies, invest in advanced analytics tools, and ensure HR professionals are equipped with the necessary analytical skills. Additionally, companies must address challenges such as data privacy concerns, resistance to change, and the need for alignment with business objectives to maximize the impact of HR analytics on employee retention.

To fully capitalise on the potential of HR analytics in reducing turnover within Malaysia's logistics and transport industry, the following recommendations are proposed:

1. Strengthening Predictive Analytics Capabilities

- Organisations should invest in advanced HR analytics software that incorporates machine learning algorithms to enhance predictive accuracy.

- HR teams must leverage historical workforce data and real-time employee feedback to identify turnover trends and address retention risks proactively.
- By integrating predictive analytics with employee experience data, companies can develop targeted retention programs that address specific workforce pain points.

2. Enhancing Workforce Planning Strategies

- HR departments should use analytics-driven workforce planning to optimize recruitment, training, and succession planning efforts.
- Workforce analytics should be used to assess talent pipeline gaps, ensuring organisations have the necessary skills and workforce capacity to meet operational demands.
- Companies should focus on data-driven workforce optimization, allowing HR leaders to allocate resources more efficiently and minimize disruptions caused by employee turnover.

3. Implementing Tailored Employee Engagement Initiatives

- HR analytics should be used to identify key drivers of employee engagement and develop personalized retention programs for different workforce segments.
- Regular engagement surveys, pulse checks, and performance reviews should be analysed to detect early signs of disengagement and implement corrective actions.
- Organisations should introduce mentorship programs, leadership development initiatives, and career growth opportunities based on insights from HR analytics data.

4. Addressing Compensation and Work-Life Balance Concerns

- Salary benchmarking and compensation analytics should be used to ensure competitive pay structures that align with industry standards.
- HR analytics should evaluate the impact of work-life balance policies on employee retention, leading to the development of flexible work arrangements for frontline and operational staff.
- Companies should assess benefits utilization trends, ensuring that employee benefits packages meet the evolving needs of the workforce.

5. Overcoming Implementation Barriers

- Organisations should provide training programs in data literacy and HR analytics to equip HR professionals with the necessary analytical skills.
- Change management strategies should be implemented to foster a data-driven culture within HR teams, encouraging decision-making based on workforce analytics.
- Companies must ensure compliance with data privacy regulations, such as Malaysia's Personal Data Protection Act (PDPA) 2010, to maintain ethical use of employee data in HR analytics applications.

Future Directions

As HR analytics continues to evolve, the integration of artificial intelligence (AI) and advanced analytics tools represents a promising future for workforce management. The adoption of AI-driven HR solutions can significantly enhance the predictive accuracy of retention models, providing deeper insights into employee behaviours, workplace trends, and turnover risks. Future research should explore the following areas:

1. AI-Powered Workforce Analytics

- AI algorithms can analyze complex workforce datasets and detect subtle patterns that may be overlooked by traditional HR analytics tools.
- Natural Language Processing (NLP) and sentiment analysis can be used to assess employee feedback from surveys, emails, and internal communication platforms, offering real-time insights into workplace sentiment.
- AI-powered recommendation systems can suggest personalized career development paths, helping organisations retain employees by aligning career progression with individual aspirations.

2. Real-Time HR Data Integration

- The use of real-time HR dashboards that pull data from multiple sources—such as payroll systems, attendance records, and employee feedback tools—can improve decision-making.
- HR professionals can monitor workforce trends in real-time, allowing for immediate intervention when early warning signs of turnover appear.
- The integration of HR analytics with business intelligence tools can provide cross-functional insights, aligning HR strategies with overall business objectives.

3. Gamification and Predictive Engagement Strategies

- Future HR analytics applications may leverage gamification techniques to boost employee engagement and improve retention.
- AI-driven engagement monitoring systems can recommend interactive employee wellness programs, training modules, and recognition incentives based on individual preferences.
- Companies may develop AI-powered career coaching tools that provide employees with data-backed recommendations for skill development and job progression.

Practical Implications for HR Practitioners

For HR professionals in Malaysia's logistics and transport industry, effectively utilizing HR analytics requires a structured and strategic approach. Key practical implications include:

- Investing in HR Technology – Organisations should adopt workforce analytics platforms that provide comprehensive employee data insights, predictive modelling, and workforce planning capabilities.

- Upskilling HR Teams in Data Analytics – HR professionals must develop data interpretation and analytical skills to translate workforce data into actionable strategies.
- Building a Culture of Data-Driven Decision-Making – HR teams should integrate analytics insights into daily operations, strategic HR planning, and leadership decision-making.
- Aligning HR Analytics with Business Strategy – Workforce analytics initiatives should be aligned with organizational objectives, ensuring that HR interventions directly contribute to business performance.
- Addressing Workforce-Specific Challenges – HR analytics should be tailored to solve industry-specific problems, such as high attrition in operational roles, lack of career progression, and work-life balance concerns.

HR analytics offers a transformative approach to managing employee retention, allowing logistics and transport companies in Malaysia to make proactive, data-driven HR decisions. By leveraging predictive analytics, workforce planning, and engagement metrics, organisations can significantly reduce turnover rates and improve workforce stability. However, to maximize the benefits of HR analytics, companies must invest in technology, enhance HR data capabilities, and create a culture that embraces evidence-based decision-making.

Looking ahead, AI-powered HR analytics and real-time workforce insights are set to revolutionize talent management, offering even greater opportunities for enhancing employee retention. As organisations continue to adopt advanced HR analytics strategies, they will be better positioned to attract, retain, and engage top talent in Malaysia's competitive logistics and transport industry.

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UNDER PEER REVIEW

COVER LETTER FOR SUBMISSION OF NEW MANUSCRIPTS

“Dr. Loo Leap Han”

Subject: **SUBMISSION OF NEW MANUSCRIPT FOR EVALUATION**

I am enclosing herewith a manuscript entitled “[HR Analytics in Action: Tackling Employee Turnover in Malaysia’s Logistics & Transport Industry]” submitted to “[International Journal of Advanced Research (IJAR)]” for possible evaluation.

With the submission of this manuscript I would like to undertake that the above mentioned manuscript has not been published elsewhere, accepted for publication elsewhere or under editorial review for publication elsewhere; and that my Institute’s [Faculty of Business and Economics, Universiti Malaya, 50603 Kuala Lumpur, Federal Territory of Kuala Lumpur] representative is fully aware of this submission.

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Yours’ sincerely,

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