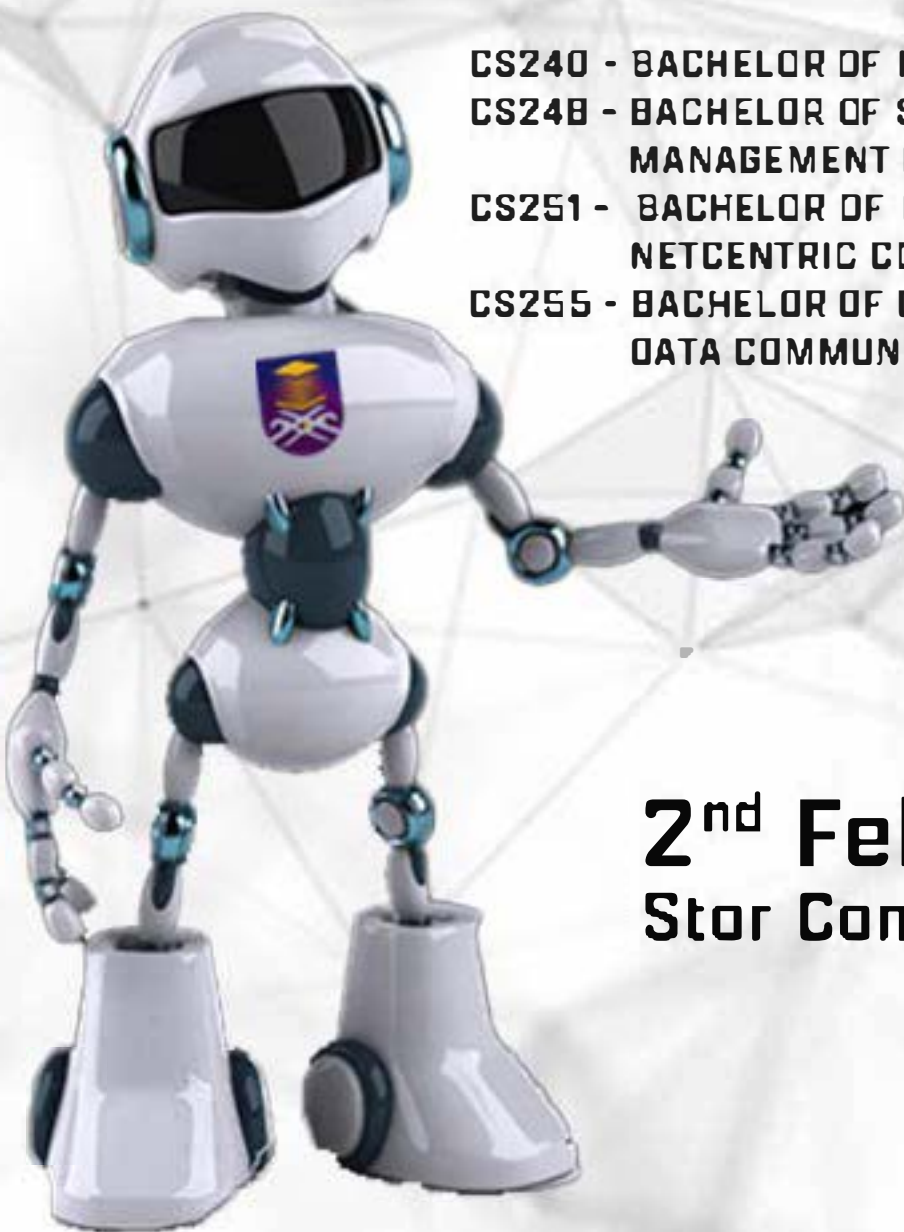


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**RESEARCH EXHIBITION IN MATHEMATICS & COMPUTER SCIENCES**

# **REMACS 5.0**

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**CS240 - BACHELOR OF INFORMATION TECHNOLOGY [HONS.]**  
**CS248 - BACHELOR OF SCIENCES [HONS.]**  
**MANAGEMENT IN MATHEMATICS**  
**CS251 - BACHELOR OF COMPUTER SCIENCE [HONS]**  
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**DATA COMMUNICATION & NETWORKING**

**2<sup>nd</sup> February 2023**  
**Stor Complex, UiTM Perlis**

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**Organized by:**  
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**Universiti Teknologi MARA Perlis Branch**

**Research Exhibition in Mathematics and Computer Sciences  
(REMACS 5.0)**

Research Exhibition in Mathematics and Computer Sciences (REMACS 5.0)

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# Preface

It is with great pleasure that we present this extended abstract book, titled "The 5<sup>th</sup> Research Exhibition in Mathematics and Computer Sciences (REMACS 5.0)". This book is a collection of research work in the fields of Computer Science and Mathematics, contributed by the final year students from Universiti Teknologi MARA, Perlis Branch. The aim of this book is to showcase the diversity and depth of research in these two interrelated fields.

Mathematics and Computer Science are two fields that have seen tremendous growth and advancement in recent years. With the rise of new technologies and the increasing demand for data-driven solutions, researchers in these fields have been working hard to develop new theories, algorithms, and models that can help solve some of the most pressing problems of our time. This book is a testament to their hard work and dedication.

The abstracts in this book cover a wide range of topics, including algebra, analysis, logic, computer architecture, algorithms, artificial intelligence, machine learning, computer network, netcentric computing and many more. The work presented here is both theoretical and practical, and has the potential to impact many areas of society, from finance and healthcare to education and security.

We hope that this book will serve as a valuable resource for future students in the fields of Mathematics and Computer Science. We also hope that it will inspire more students to pursue innovative and groundbreaking research in these two fields. Finally, we would like to express our gratitude to all the contributors for their hard work and dedication, without which this book would not have been possible.



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# EVENT SCHEDULE

8:00 – 8:30 am

- Registration

8:00 am – 12:00 pm

- FYP Project Presentation

12:00 - 2:00pm

- Lunch Break

2:15 – 2:35 pm

- National & Wawasan Setia Anthems
- Doa Recitation

2:35 – 2:45 pm

- Welcoming Address by Director of REMACS 5.0

2:45 – 2:55 pm

- Officiating & Closing Remarks from Rector of UiTM Perlis

2:55 – 3:00 pm

- REMACS 5.0 Montage

3:00 – 4:00 pm

- Awarding of Winners:
  - Best Poster
  - Best Project Award

- Photo Session

- End of Ceremony

*Dress Code: Formal / Corporate*

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# EXTENDED ABSTRACTS

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RESEARCH EXHIBITION IN MATHEMATICS & COMPUTER SCIENCES  
**REMACS 5.0**

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# ONLINE EMPLOYMENT PLATFORM SELECTION BY USING FUZZY ANALYTIC HIERARCHY PROCESS

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## Abstract

E-recruitment is the application of technology to assist in the hiring process. In the modern world, e-recruitment has changed how the organisation conducts their traditional recruitment procedure. These days, there are numerous networking sites that help companies find qualified candidates. For instance, MYFutureJob, LinkedIn, Indeed, and JobStreet have become important sources for finding qualified candidates for companies. These are the greatest employment portals in our country, assisting individuals in the recruitment process as there are more options to select the best applicant for each open position. So this study identifies the most preferred criteria and alternatives in choosing an online platform. To achieve these objectives, fuzzy AHP will be used to make a comparison between LinkedIn, MyFutureJob, Indeed, and Jobstreet which are often used by job-seekers to apply for jobs in Malaysia. A total of three jobseekers participated as maker decisions. Questionnaires were developed based on articles from journals and papers based on previous studies. Based on findings, LinkedIn is the superior employment platform website in Malaysia, surpassing MYFutureJob, JobStreet, and Indeed.

*Keywords: E-recruitment, MYFutureJob, JobStreet, Indeed, LinkedIn*

## 1. Introduction

This study focuses on online employment platform selection and fuzzy AHP is used to make a comparison between LinkedIn, MYFutureJob, Indeed, and Jobstreet which are often used by job-seekers to apply for jobs in Malaysia. The criteria for this study are accessibility, user-friendly, current system, security, and privacy. For this research, there are three respondents considered. The main objective of this research is to determine the best online employment platforms in Malaysia which are between LinkedIn, MYFutureJob, Indeed, and Jobstreet. Besides, the sub-objectives for this study are to identify the most preferred criteria in choosing an online employment platform.

## 2. Methodology

The questionnaire used in this study is developed based on previous research of the same area. Active jobseekers, fresh graduate and final year student are among the respondents that took part in the survey. The questionnaire is divided into two parts, Part A and Part B. Part A consists of four demographic questions that focuses on respondents' background information, which include gender, age, and occupation. Section B is to evaluate and determine the respondents' view on the available alternatives and criteria of this study. Fuzzy Analytical Hierarchy Process is then used to examine and analyse the survey data. A rank for the alternatives and criteria which is based on the normalised score are presented as a result.

## 3. Results and Discussion

LinkedIn is found to be the best employment platform website in Malaysia, with a normalised value of 0.64919. With a normalised value of 0.20576, JobStreet is ranked second and MyFutureJob is at third with normalised value of 0.09596. Meanwhile, Indeed is the least popular of the four websites examined, with a normalised value of 0.04909. Based on the factors that have been considered by the decision-makers, it can be concluded that LinkedIn is the first job platform website in Malaysia. Despite

being the oldest of these four websites, Jobstreet cannot surpass LinkedIn as the best one. The review of the three experts on some of the research's criteria revealed that LinkedIn is superior.

#### **4. Novelty of Research / Product**

There have been numerous studies comparing online employment platforms in Malaysia, particularly those focusing on the various sources of e-recruitment within the organisation, such as ease of use for the organisation, faster hiring, staying ahead of competitors, cost savings, candidate ease of use, and a large candidate pool (Ahlawat & Sangeeta, 2016). However, no study has been done to determine the top online employment platforms based on accessibility, the user-friendly, current system, and security & privacy. Overall, the study intends to identify LinkedIn, MYFutureJob, Indeed, and Jobstreet as the top online employment sites. Additionally, this study will help students and researchers who want to apply for jobs in a variety of sectors. Therefore potential employees can learn more about employment platforms that suit their needs.

#### **5. Conclusion**

Based on the results using Fuzzy AHP, the most important criteria are accessibility followed by the current system, then user friendly, and lastly security & privacy. For alternatives, we can conclude that LinkedIn is the superior employment platform website in Malaysia, surpassing MYFutureJob, JobStreet, and Indeed.

#### **REFERENCE LIST**

Ahlawat, R., & Sangeeta. (2016). E-recruitment: Transforming trends of recruitment in Human resource management,. *Global Journal of Engineering Science and Research Management*.

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