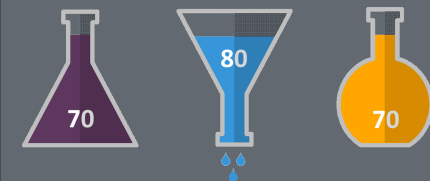
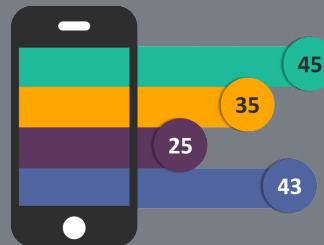
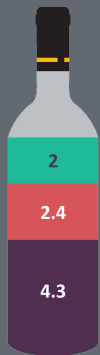


# Enhancing Expert Bibliographical Profile Presentation via Infographics



Khoh Zhuo Yan, Goh Kao Yang and Chua San Thai  
CAT300 Undergraduate Project 2016

# PROJECT BACKGROUND

- **Bibliographical profile**
  - provides a short synopsis of expert profile
  - provide in-depth material about an expert work.
- **Infographic presentation**
  - become more and more popular
  - stressed on visualization of information using beautiful symbol, icon, picture

Female



Male



# PROBLEM DESCRIPTION

- Existing system provides information in form of conventional webpage design
- Information less deliverable and attractive
- Packed with abundance of information
- Demotivate reader to fully capture the content




<p>Taming the 0/1 knapsack problem with monogamous pairs genetic algorithm. Expert Syst. Appl., 241-250, 2016 This paper defines and explores a somewhat different subclass of genetic algorithm (GA) &amp;#x2013; a monogamous pairs genetic algorithm (MopGA) for solving the 0/1 knapsack problems (0/1-KP). The MopGA incorporates two important operations borrowed from social monogamy: pair bonding and infidelity at a low probability. Unlike conventional GAs, same pairs of parents (monogamous parents...</p>	2016	Optimization
<p>Intelligent Evacuation Management Systems: A Review. ACM TIST, 36, 2016 Crowd and evacuation management have been active areas of research and study in the recent past. Various developments continue to take place in the process of efficient evacuation of crowds in mass gatherings. This article is intended to provide a review of intelligent evacuation management systems covering the aspects of crowd monitoring, crowd disaster prediction, evacuation ...</p>	2016	Engineering
<p>Adaptive pair bonds in genetic algorithm: An application to real-parameter optimization. Applied Mathematics and Computation, 503-519, 2015 Genetic algorithm (GA) is a heuristic search technique that draws inspiration from principles and mechanisms of natural selection. Conventionally, parents selection takes place at every generation and offspring are reproduced through genetic operators like crossover and mutation. The process reiterates until some termination conditions are met. Until recently, little attention ...</p>	2015	Machine Learning
<p>Island-based harmony search for optimization problems. Expert Syst. Appl., 2026-2035, 2015 Harmony search (HS) algorithm is a recent meta-heuristic algorithm that mimics the musical improvisation concepts. This algorithm has been widely used for solving optimization problems. Moreover, many modifications in this algorithm have been carried out in order to improve the performance of the search. Island model is a structured population mechanism used in evolutionary alg...</p>	2015	Management
<p>Uniform Solution to Common Algorithmic Problem by P Systems Working in the Minimally Parallel Mode. Fundam. Inform., 285-296, 2015 It is known that the Common Algorithmic Problem (CAP) has the nice property that several other NP-complete problems can be reduced to it in linear time. The decision version of this problem is known to be efficiently solved by a family of recognizer P systems with active membranes with three electrical charges working in the</p>	2015	Optimization

# RELEVANT SYSTEM

Bibliographical Database	Infographics Solution
<ul style="list-style-type: none"><li>• Filled with words</li><li>• Without images or tables</li><li>• Suitable to use for research purpose</li><li>• E.g. Google scholar, Microsoft academic</li></ul>	<ul style="list-style-type: none"><li>• Present information in pictures or diagrams</li><li>• More attractive</li><li>• Traditional <b>static</b> infographics</li><li>• E.g. Piktochart, Infogram</li></ul>

# RELEVANT SYSTEM



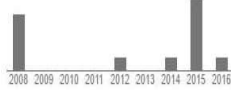
**Keng Hoon Gan** [Follow](#)

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Information Retrieval, Sentiment Analysis, XML Search, Semantic Annotations, Query Optimization  
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Citation Indices	All	Since 2011
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i10-index	0	0



Co-authors [View all...](#)

Huah Yong Chan

Title	1-20	Cited by	Year
A query transformation framework for automated structured query construction in structured retrieval environment	4	2014	
Mapping search results into self-customized category hierarchy	4	2004	
Rank Aggregation Model for Meta Search	3	2004	
Mice: Aggregating and classifying meta search results into self-customized categories	3	2004	
Load Balancing For Web-based Grid Application	3	1998	

## INFOGRAPHIC ELEMENTS

**STEP 1**



**STEP 2**



**STEP 3**



**STEP 4**





**YOUR TITLE HERE**

Lorem ipsum ad his scripta blandit partiendo, eum fastidi accumsan euipidis in, eum liber hendrerit an.

Qui ut wisi vocibus suscipiantur.

**YOUR TITLE HERE**

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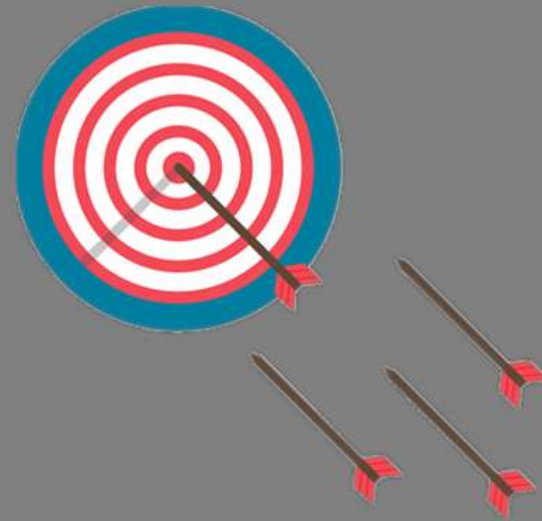
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designed by  freepik.com

# SYSTEM OBJECTIVES

- 1. To enhance the presentation of the information using innovative, easy, and beautiful infographics.**
- 2. To capture users' attention to ensure faster and better data delivery**



# PROPOSED SOLUTION

- Implementing infographics approach on expert search system.
- Provides a **dynamic** website
- Carry out by three steps

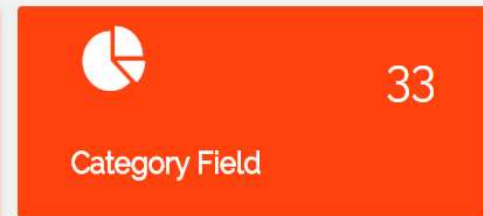
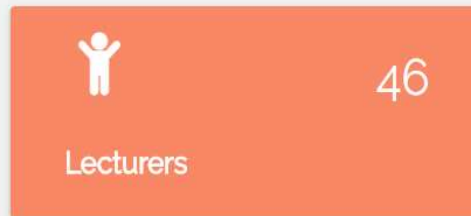
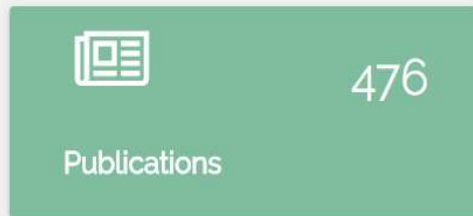


# DYNAMIC INFOGRAPHIC



## Statistical Visualization

[+] 1. The Stats





# DYNAMIC INFOGRAPHIC

[←] 2. The Latest Paper

## Latest Paper

- 2016 ● **Filtration model for the detection of malicious traffic in large-scale networks.**  
Abdulghani Ali Ahmed , Aman Bin Jantan , Tat Chee Wan  
*optimization*
- 2016 ● **Printed Text Image Database for Sindhi OCR.**  
Dil Nawaz Hakro , Abdullah Zawawi Talib  
*algorithm*
- 2016 ● **Intelligent Evacuation Management Systems: A Review.**  
Azhar Mohd Ibrahim , Ibrahim Venkat , K. G. Subramanian , Ahamad Tajudin Abdul Khader , Philippe De Wilde  
*engineering*
- 2016 ● **Taming the 0/1 knapsack problem with monogamous pairs genetic algorithm.**  
Ting Yee Lim , Mohammed Azmi Al-Betar , Ahamad Tajudin Abdul Khader  
*optimization*
- 2016 ● **An incremental meta-cognitive-based scaffolding fuzzy neural network.**  
Mahardhika Pratama , Jie Lu , Sreenatha G. Anavatti , Edwin Lughofer , Lim Chee Peng  
*optimization*

# DYNAMIC INFOGRAPHIC

[+] 3. The Top Publisher



# DYNAMIC INFOGRAPHIC

## [-] 4. The Most Publication's Categories



optimization - 79 papers



robotics - 57 papers



simulation - 50 papers



image processing - 38 papers



nlp - 37 papers

# DYNAMIC INFOGRAPHIC



























## Gan Keng Hoon

School Of Computer Sciences, Universiti Sains Malaysia

Website

### Category Field

CATEGORY	NUMBER OF PAPER
Information Retrieval 	   
Nlp 	 
Optimization 	 
Simulation 	 
Data Mining 	
Education 	
Management 	
Speech 	
Web 	

# CONCLUSION

**We hope that this system**

- **can help researchers and students in finding related work and information.**
- **can be further developed by other people as there are still room of improvements.**

**For example, from component repository perspective, the presentation of data can be more creative.**





hank



ou!

Thank You!