Unit 17 Business Process Support

PRESENTED BY DR.MYO

DAY 1

Agenda

Unit Introduction

About the Instructor

Dr. Myo Myint Oo

FOLLOWING

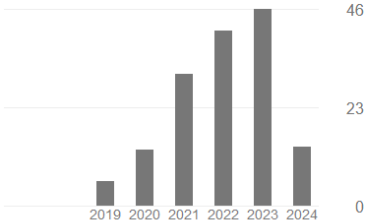
Lecturer
No verified email

Computer Engineering Data Science Machine Learning Artificial Intelligence

TITLE	CITED BY	YEAR
Advanced support vector machine-(ASVM-) based detection for distributed denial of service (DDoS) attack on software defined networking (SDN) M Myint Oo, S Kamolphiwong, T Kamolphiwong, S Vasupongayya Journal of Computer Networks and Communications 2019	117	2019
The design of SDN based detection for distributed denial of service (DDoS) attack MM Oo, S Kamolphiwong, T Kamolphiwong 2017 21st International Computer Science and Engineering Conference (ICSEC), 1-5	28	2017
Analysis of features dataset for DDoS detection by using ASVM method on software defined networking MM Oo, S Kamolphiwong, T Kamolphiwong, S Vasupongayya International Journal of Networked and Distributed Computing 8 (2), 86-93	8	2020
SDN based Design for Detection of Distributed Denial of Service (DDoS) attack (インターネットアーキテクチャ) S Kamolphiwong, T Kamolphiwong 電子情報通信学会技術研究報告= IEICE technical report: 信学技報 117 (299), 13-18		2017
SDN based Design for Detection of Distributed Denial of Service (DDoS) attack MM Oo, S Kamolphiwong, T Kamolphiwong IEICE Technical Report; IEICE Tech. Rep. 117 (299), 13-18		2017

Cited by

	All	Since 2019
Citations	153	153
h-index	3	3
i10-index	2	2



Co-authors EDIT

No co-authors

Unit Introduction

- Unit 17 : Business Process Support
- Unit Code A/618/7428
- Unit Level 5
- Credit value 15
- **Learning Outcomes**
- LO1: Discuss the use of data and information to support business processes and the value they have for an identified organization
- LO2: Discuss the implication s of the use of data and information to support business processes in a real-world scenario
- LO3: Explore the tools and technologies associated with data science and how it supports business process
- LO4: Demonstrate the use of data science techniques to make recommendations to support real-world business problems

What is Data?

- “Raw Fact”
- According to Oxford Dictionary,

  “***Data is distinct pieces of information, usually formatted in a special way”***
- Can be measured, collected, reported, analyzed, visualized
- Raw Data (“Unprocessed data”) may be a collection of numbers or characters
- Data can be generated by “**Humans, Machines, Human-Machine combines”**

What is Process?

- According to the Cambridge Dictionary,
- A series of actions that you take in order to achieve a result
- A process includes four major elements
  - Steps and selections
  - Processing flow and time variability
  - Interdependence and timing
  - Resource allocation

What is Information?

- Information is data that has been processed, organized or structured in a way that makes it meaningful, valuable and useful.
- It is data that has been given context, relevance and purpose.
- It gives knowledge, understanding and insights that can be used for decision –making, problem-solving, communication and various other purposes.

Categories of Data

- Data can be categories into two main parts
- Structured Data
  - This type of data is organized data into specific format, making it easy to search, analyze and process.
  - Structured data is found in relational databases that includes information like numbers, data and categories.
- Un-Structured Data
  - Un-structured data does not conform to a specific structure or format.
  - It may include some text documents, images, videos, and other data that is not easily organized or analyzed without additional processing

Types of Data

- Data can be classified into two parts
- Categorial Data : in categorial data that the data have a defined category
  - Marial Status
  - Political Party
  - Eye color
- Numerical Data: Numerical data can be classified into two categories
  - Discrete data: the data that have discrete numerical values for example : Number of Children, defects per hour etc.
  - Continuous Data: Continuous data that contains continuous numerical values for example Weight, Voltage, etc

Thank you

QUESTIONS?