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| **Practicum Case** |  |
| COMP7116 | COMP7116001 | COMP7116016 | MATH6168 | MATH6168016  Computer Vision |
| **Computer Science** | **O221-COMP7116-NC01-06** |
| ***Valid on*** *Odd Semester 2024/2025* | **Revision 00** |

**Learning Outcome**

* LO1 – Describe various computational principles and standard image processing operators in computer vision

**Topic**

* Session 6 – Image Matching

## Sub Topics

* Feature Descriptor
* Feature Matching

## Soal

*Case*

**GeNCi Sushi**

GeNCi Sushi is a restaurant that specializes in selling many types of sushis such as nigiri, sashimi, maki, and many more. The owner of the restaurant wants to make a program that can **automatically detect different types of sushi**. As a programmer and a close friend of the owner, you want to help him make the program that can **automatically detect** many **types of sushi** **using Python**, you are allowed to use either **SIFT**, **AKAZE**, or **ORB** for **the algorithm**.

1. **Feature Matching**

* **Make a program** that can perform **feature matching** to **find corresponding points or features** between the **object image** and the **images in the dataset**.

A close up of food

Description automatically generated

Figure 1. Example of Feature Matching