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Current advancements in digital technologies have caused an explosion in the volume and diversity of document collections, which include textual, image, audio and video. This has spurred widespread interest in media-specific information retrieval and its related computational research.

The DICR research group focuses on investigating techniques in managing large document collections, transforming data into computational representations and devising strategies for optimal storage, processing, organisation, retrieval and interaction with these digital document collections.

**Research Areas**

- Information Retrieval;
- Intelligent Multimedia Data Processing, Analysis and Access;
- Multimodal Sentiment Analysis;
- Multimodal Interaction and Query Technologies;
- Natural Language Processing;
- Image and Video Processing and Sense-making;
- Speech and Audio Processing;
- Music and Computing;
- Web and Search Engine Technologies;
- Multimedia Analytics; and
- Emerging Trends in Multimedia Big Data.

**Ongoing Projects**

- **Effective Content-based Fish Species Image Retrieval based on Enhanced Zernike-Moments-Local Directional Pattern (FRGS)**
  Duration: 2016 – 2018, Project leader: Dr. Mas Rina

- **Aesthetics Energy of Image Color-based Point of Regard Estimation for Distance Independent Non-Intrusive Eye Gaze Tracking (FRGS)**
  Duration: 2014 – 2017, Project leader: Dr. Alfian

- **An Effective Model to Predict Sentiment Influence within Social Media based on Information Foraging Theory (FRGS)**
  Duration: 2015 - 2017, Project leader: Dr. Azreen

- **Feature-based Document Alignment Method for High Accuracy in Aligning Malay and English Comparable News Collection (FRGS)**
  Duration: 2014 - 2017, Project leader: Assoc. Prof. Dr. Muhamad Taufik

**Selected Publications**


**Recognitions**


Best Paper Award


Best Paper Award