

## İçerik

Ders Kodu	Dersin Adı	Yarıyıl	Teori	Uygulama	Lab	Kredisi	AKTS
INF 501	Bilgi Erişimi	2	3	0	0	3	6

Ön Koşul	
Derse Kabul Koşulları	

Dersin Dili	İngilizce
Türü	Zorunlu
Dersin Düzeyi	Yüksek Lisans
Dersin Amacı	Introduce current aspects of the design and the implementation of systems for gathering, indexing and searching documents. Present and evaluate searching systems on text, image, audio and video processing tools. Discuss modern architecture of indexation and query processing. Generation, tracking, compressing and filtering techniques in information retrieval and related features of multimodal and hybrid search engines. Advanced Topics in new generation search engines related to multimedia formats (indexing, storage and retrieval techniques) will be covered in this course.
İçerik	1- Boolean Retrieval, Scoring 2- Vector Space Models, Similarity and normalization in hyperspaces 3- Evaluation in IR, LAB: Introduction to text processing 4- Relevance Feedback 5- Query expansion, global and local methods 6- Probabilistic information retrieval 7- Machine learning in IR: kNN, Naive Bayes, Support Vector Machines, Voronoi diagrams 8- Midterm 9- Latent Semantic Retrieval, LAB: Classification 10- Content Based Image Retrieval-I: Feature extraction 11- Content Based Image Retrieval-II: Classification, evaluation and advanced applications 12- Content Based Music/Sound Retrieval: Time-Frequency features, applications 13- Video search engines, applications, LAB: Feature extraction and classification in multimedia 14- Projects
Kaynaklar	Christopher D. Manning, Prabhakar Raghavan and Hinrich Schütze, Introduction to Information Retrieval, Cambridge University Press. 2008. Jens Rainer Ohm, Multimedia Content Analysis, Springer, 2016. Maragos, Potomianos, Gros, Multimodal Processing and Interaction Audio, Video, Text, Springer, 2008.

## Teori Konu Başlıkları

Hafta	Konu Başlıkları
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