



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

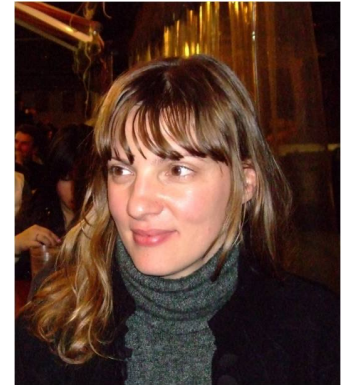
Courses freely chosen by the students

International Master's Degree in
Computer Science

Multimedia Data Management - 6 cfu

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- **Period II:** February 2026 - June 2026

- **Main objective:**

The course presents **classic pipelines** for **designing** and **implementing modern, advanced multimedia (MM) data systems** with the aim to facilitate the «**access**» to **very large, complex «unconventional data»**, notably **MM Big Data**, like full-text documents, Web pages, image/video/audio/stream collections, and/or combination of them, to **non-expert users** by extracting and exploiting their «**value**»

- **Project Work in Multimedia Data Management - 3 cfu**

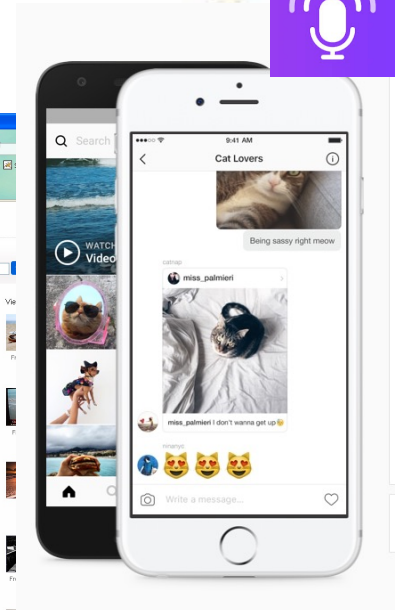
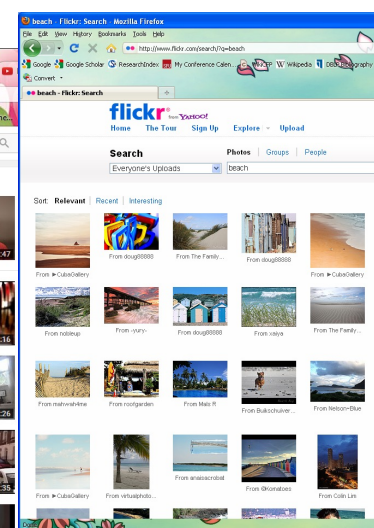
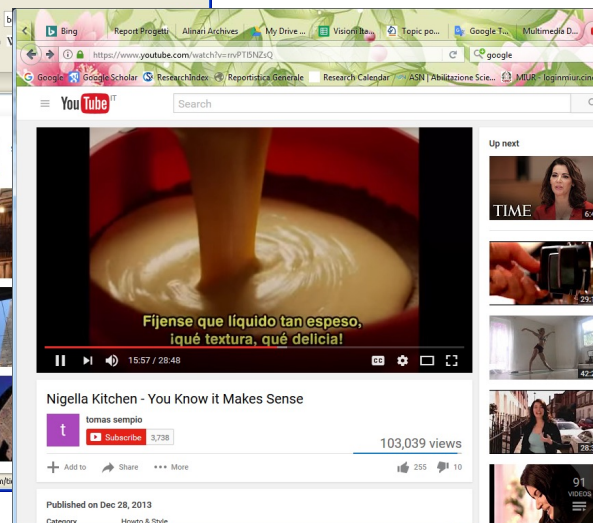
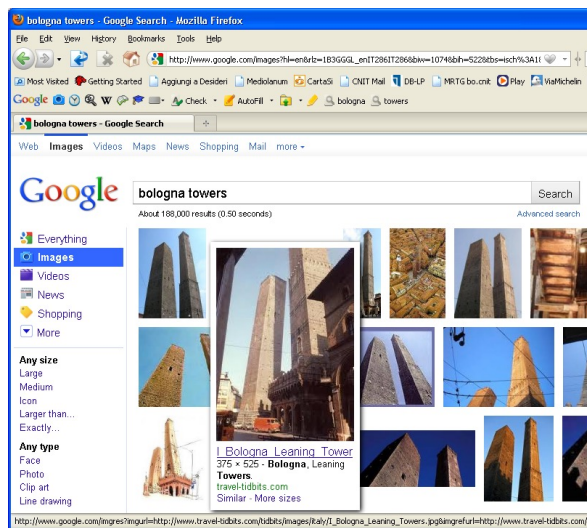
<https://www.unibo.it/sitoweb/ilaria.bartolini/teachings>



What will I be able to do at the end of the course?



- The student will have the **methodology, modeling, design,** and **implementation** skills and expertise related to the **development of smart MM «data-intensive» applications** and **services** like the the ones included in commercial solutions like:
 - Google search engine,**
 - YouTube,**
 - Facebook,**
 - Instagram,**
 - Flickr, Twitter, Podcast,** just to named a few...
- but especially **smarter extensions/evolutions** of them! 😊



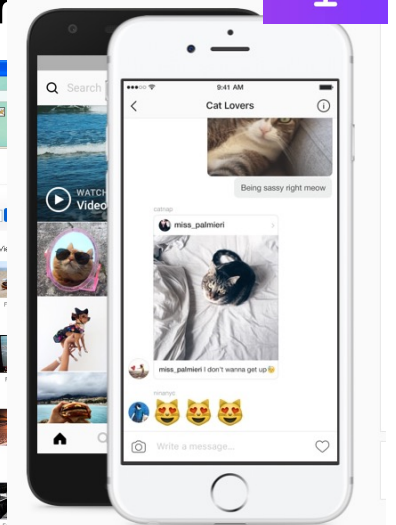
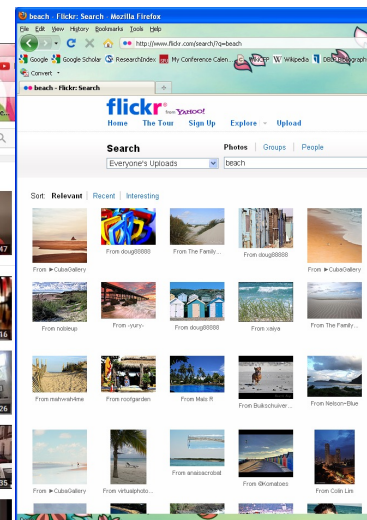
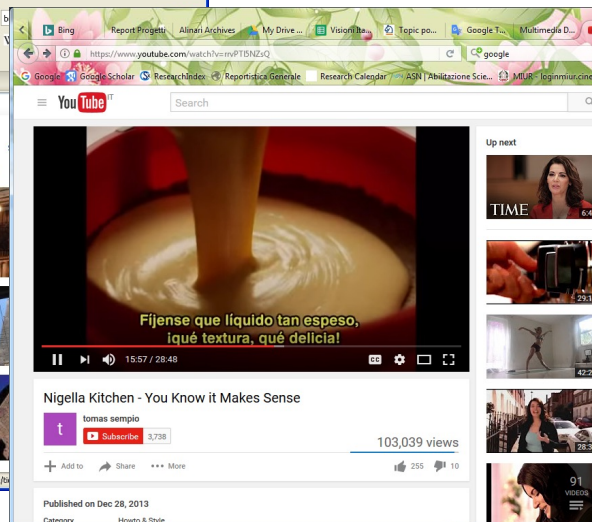
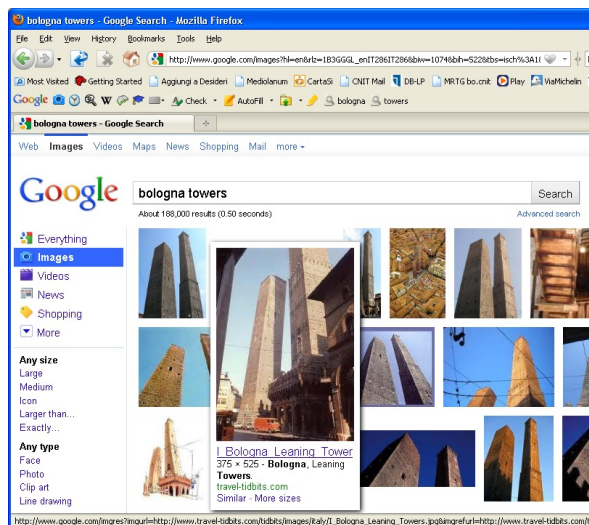
What will I be able to do at the end of the course?



- To this end, all necessary expertise relating to the **effective** and **efficient management of MM Big Data** will be supplied, with particular attention to the problems of:
 - MM data representation**
 - MM data retrieval models**
 - Interaction paradigms between the user and the MM data system**, both for purposes of **data presentation** and **exploration** purposes
- The student will master the **architectures of traditional and advanced MM «data-intensive» systems and services**, **search engines**, **social networks**, and **recommender system**



twitter





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Thank you!

Ilaria Bartolini

MultiMedia DataBase Group - Datalab

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