

Stefanakis, E., 2014. *Geographic Databases and Information Systems*. CreateSpace Independent Publ. [In English], pp.386.

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Chapter 4

Geographic Information Systems

Emmanuel Stefanakis

<http://www2.unb.ca/~estef/>

Geographic Information Systems

- GIS ...
 - **G**eographic
 - **I**nformation
 - **S**ystems

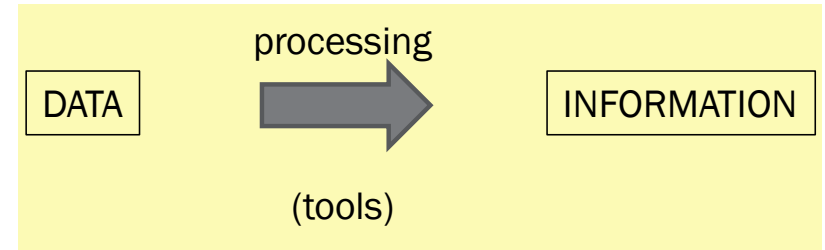
Geographic Information Systems

- GIS ...
 - **Geographic**
 - Information
 - Systems



Geographic Information Systems

- GIS ...
 - Geographic
 - **Information**
 - Systems

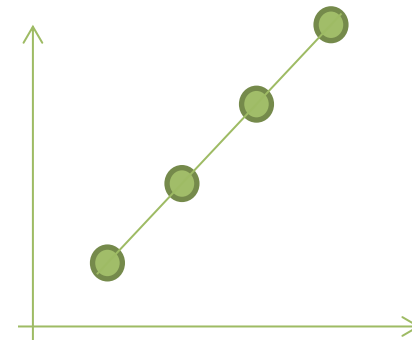


✓ **Data...**

{ (4,5), (5,6), (6,7), (7,8) }

✓ **Information...**

Straight line



Geographic Information Systems

- GIS ...
 - Geographic
 - Information
 - **Systems**

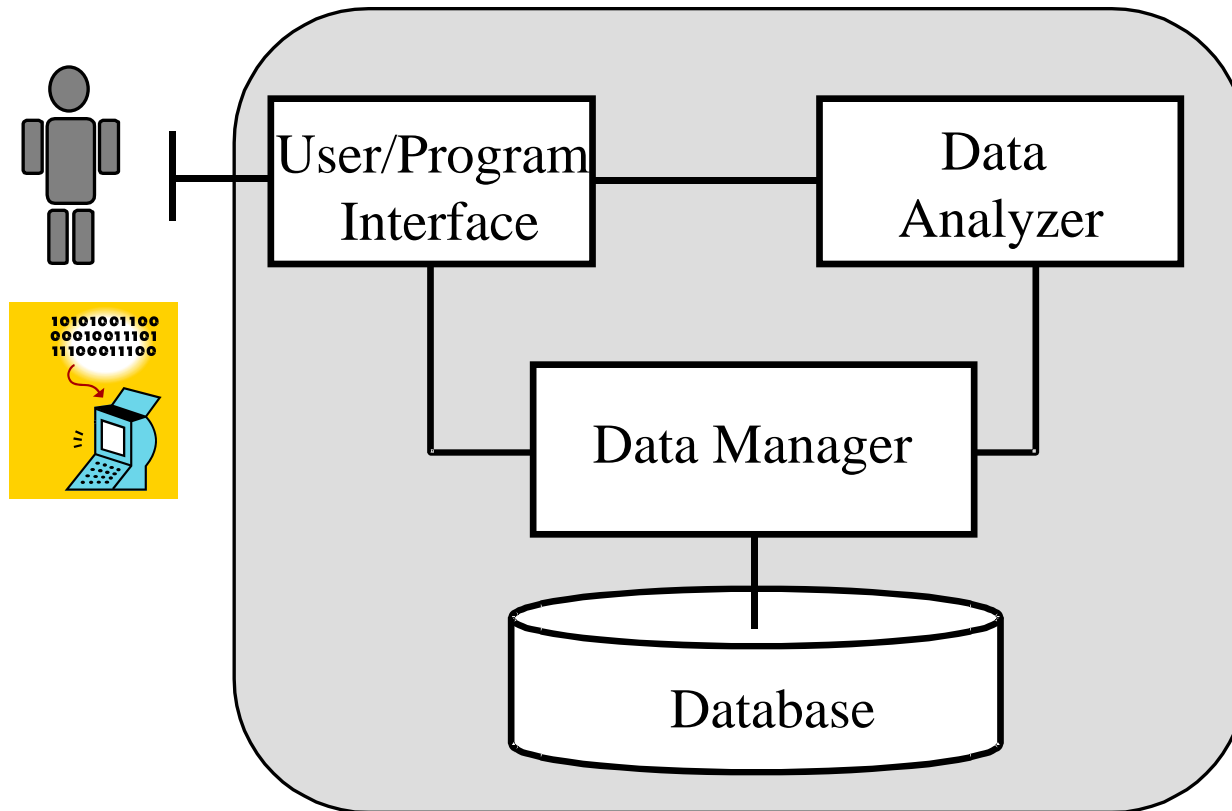


Geographic Information Systems

- Definition...
 - GIS are **computer-based systems** designed to support the
 - modeling,
 - management,
 - analysis, and
 - display / dissemination
 - of **spatially referenced data** at different points in **time**

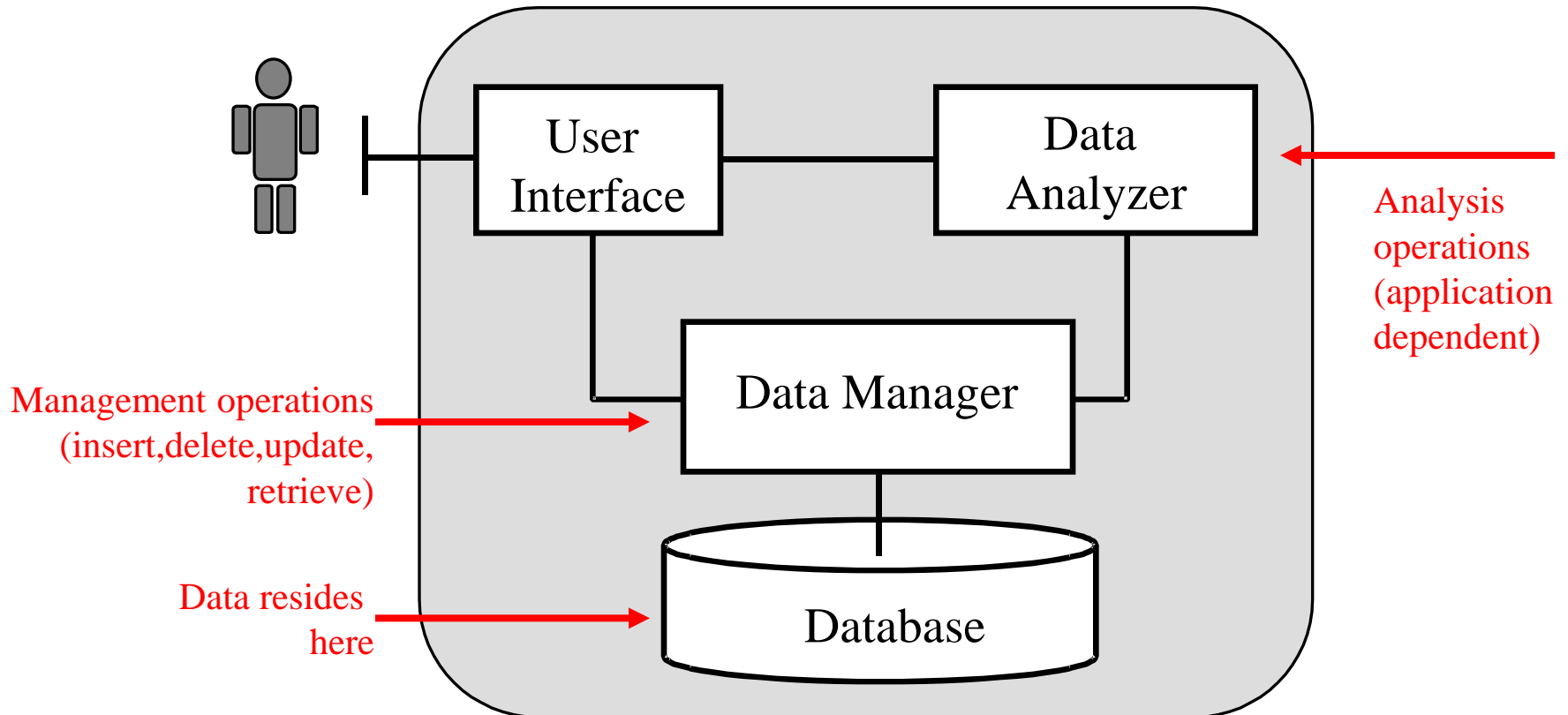
Information Systems

- Architecture



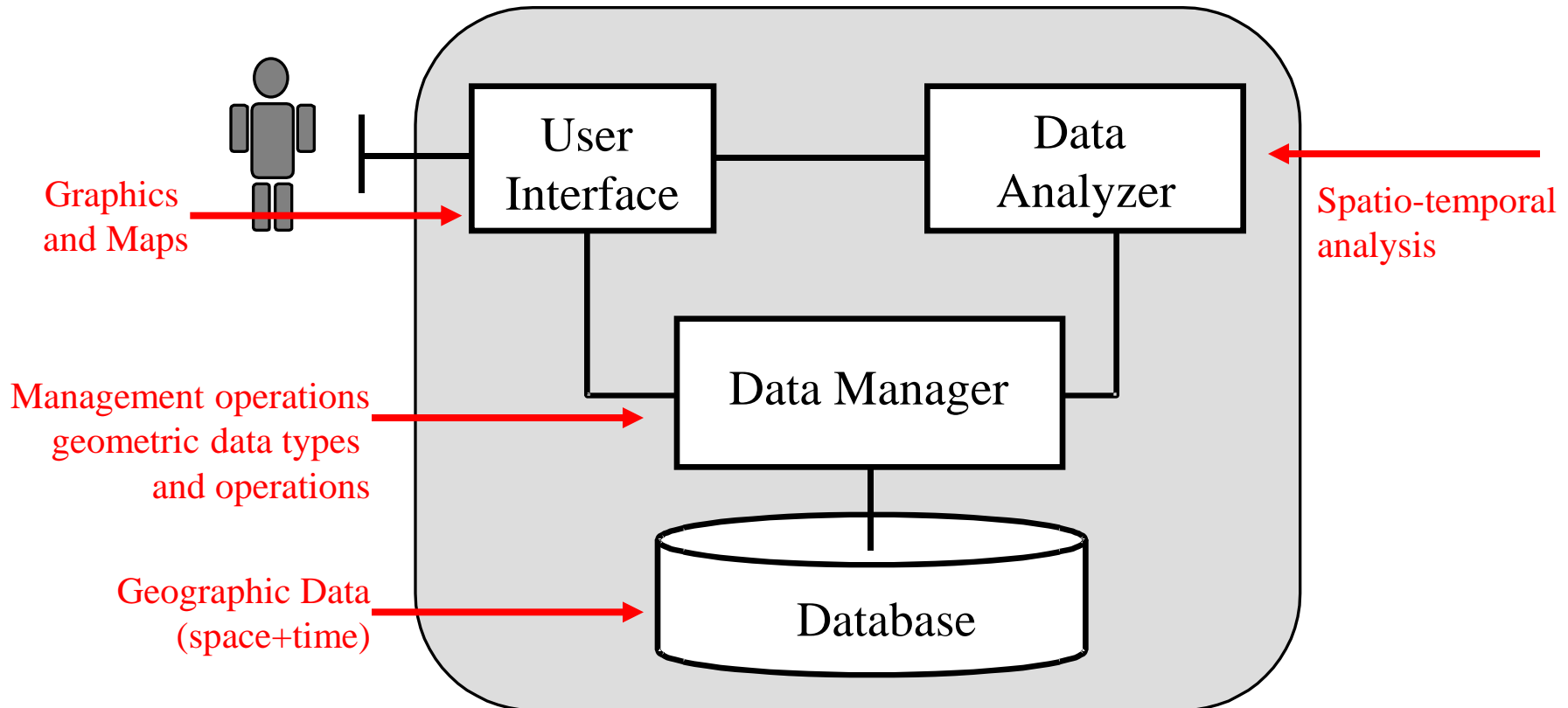
Information Systems

- Architecture

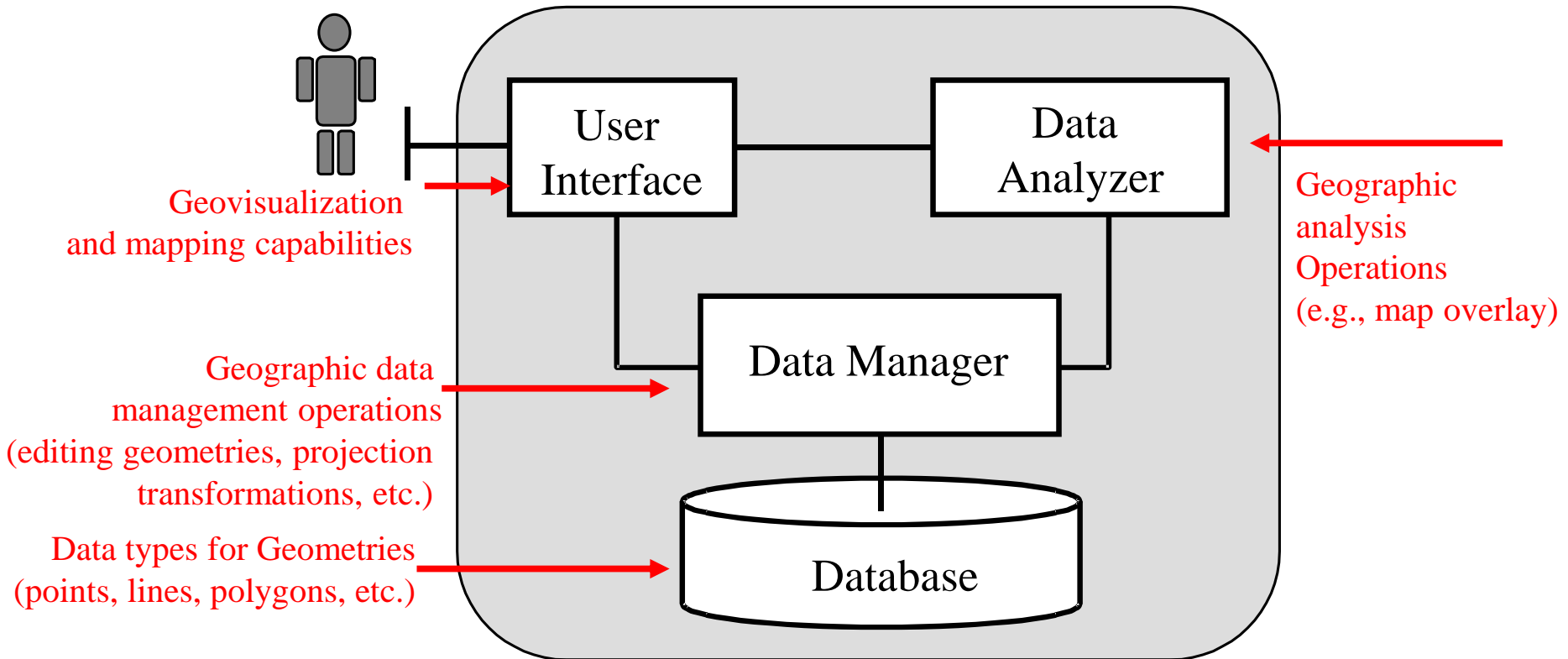


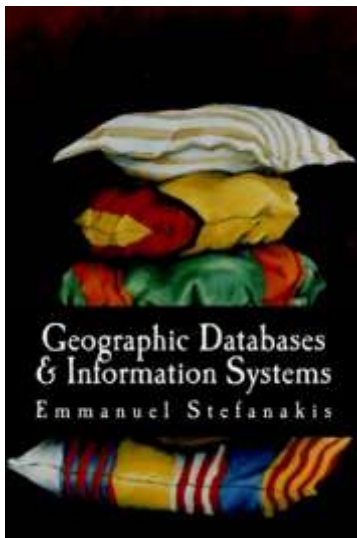
Geographic Information Systems

- Special requirements



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