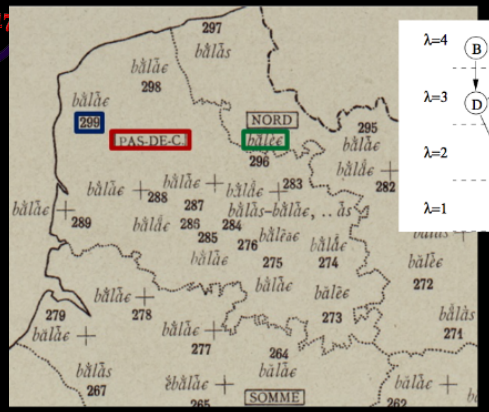
Session 1: Interpretation of engineering drawings, maps, charts, etc.

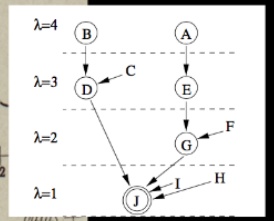
Chairs: Christophe Rigaud & Richard Zanibbi

Session outline (each paper: 10 min presentation)

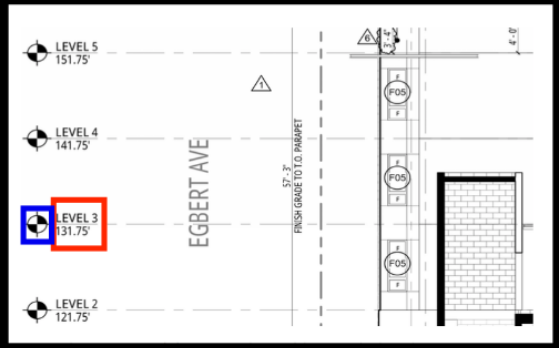
- Paper 1: **Extraction of ancient maps content by using trees of connected components**, Jordan Drapeau, Thierry Géraud, Mickaël Coustaty, Joseph Chazalon, Jean-Christophe Burie, Véronique Eglin, Stephane Bres
- Paper 2: **Automatic Elevation Datum Detection and Hyperlinking of Architecture, Engineering & Construction Documents**, Purnendu Banerjee, Supriya Das, Bhagesh Seraogi, Bidyut Chaudhuri, Himadri Majumdar, Srinivas Mukkamala, Rahul Roy
- Paper 3: **Extracting interactions from molecular pathways**, Antonio Foncubierta-Rodriguez, Anca-Nicoleta Ciubotaru, Costas Bekas, Maria Gabrani
- Paper 4: **Floor Plan Generation and Auto Completion Based on Recurrent Neural Networks**, Johannes Bayer, Saqib Bukhari, Andreas Dengel



+Segment into Layers



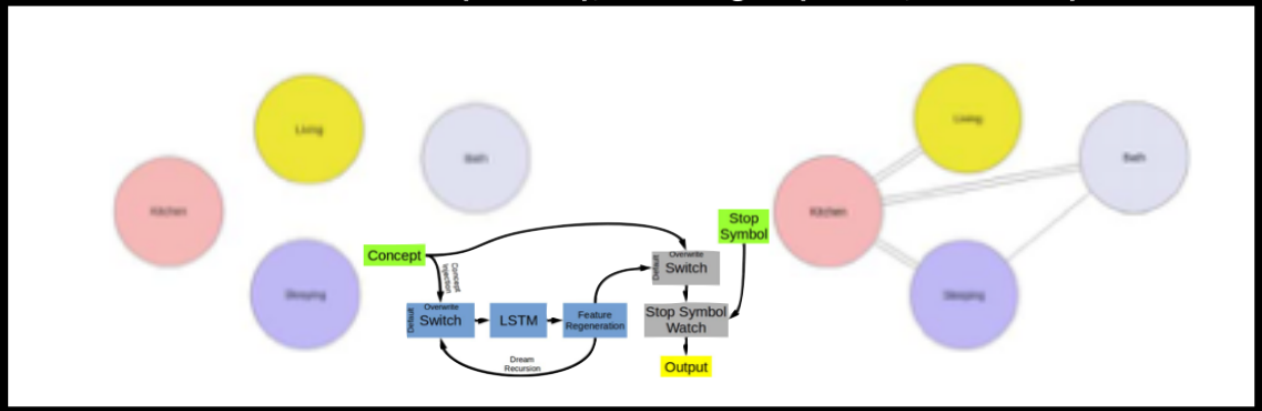
CC intensity tree

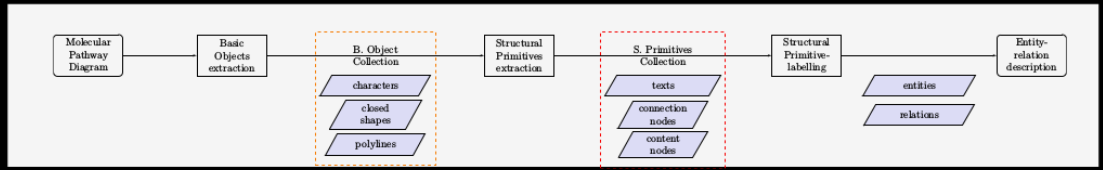


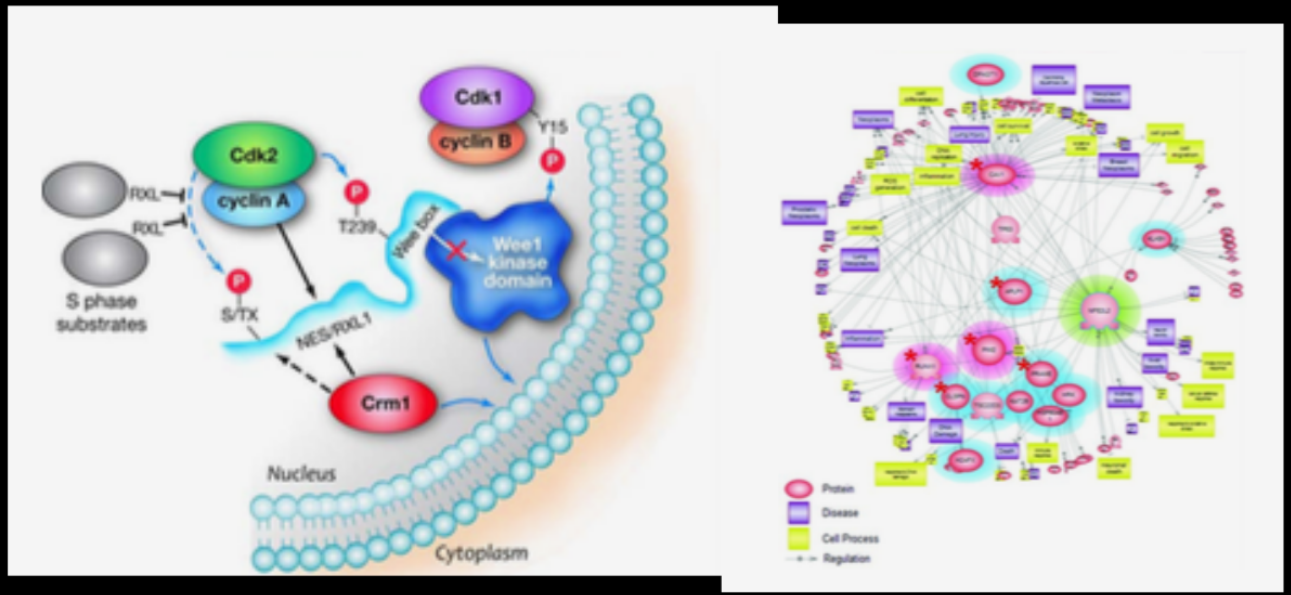
+Document Linking

CC Analysis + Text/Graphics Sep
Raster Image-Based

Machine Learning-Based Structure Generation
Given Nodes (Rooms), Add Edges (Doors, Windows)







Parse diagram from image input
(Infer molecular pathway relationships)

Paper 1:

Extraction of ancient maps content by using trees of connected components

Jordan Drapeau, Thierry Géraud, Mickaël Coustaty, Joseph Chazalon, Jean-Christophe Burie, Véronique Eglin, Stephane Bres