PUNYAPHON HORATA : A DATA MODEL FOR HYPERTEXT DATABASES USING DIRECTED RECURSIVE LABELNODE HYPERGRAPHS. THESIS ADVISOR : ASSOCIATE. PROF. Dr. VILAS WUWONGSE, ASSISTANT PROF. SUYUT SATAYAPRAKORB, 99 PP.

A data model for hypertext databases is designed by means of Directed Recursive Labelnode Hypergraphs language. A hypertext database holds information in units called nodes. A network of nodes is linked to represent interrelationships. Such nodes can contain text, graphics, audio as well as other forms of data.

Conventional data models based on graphs, hypergraphs or Petri-net and designed for hypertext databases, can not completely meet user's requirements.

The data model proposed can support composition mechanisms, access control mechanisms, concurrent browsing, synchronization browsing, zooming browsing, panning browsing as well as context tailoring. An guideline for the implementation of hypertext systems in real world is also included.