Courseware

Computer Graphics Collaborative Learning

Web log tracking techniques

(Microsoft Internet Explorer 5.5 upper, excluding 6.0 sp2)

- Full Screen HyperCard   (Confirmation of browsing)
- Click tracking of user   (Cursor movement in IE Browser)
- Timeout timestamp   (3 minutes Automatically Logout)
- Referrer timestamp   (Record Page codes)
- Full-loaded timestamp   (Avoid missing click problem)
- Machine hanging   (Shut down the hardware abnormal problem)
- Diminish / Enlarge Platform Window   (Synchronous browsing or Learning)
- Delay capture session code   (Avoid quick hits problem)

Event types of nature

Nature Code	Functions			
A = Concepts	T = Theory	F = Platform	W = Courseware Information	
B = Individual	Profile	Polling	Self quiz	Submit works
C = Collaboration	Grouping	e-mail	Meeting room	Forum
D = Technique	V = Video	S = Skill		
E = eLearning	Diminish	Enlarge		
X = Idle Time	Logout **Timeout**			

Temporal Database of user-tracking

Event id	User id	Timestamp	Click from	Referrer
22345	101	20030620160000	S21	t12
22346	101	20030620160100	t12	cmi

NB:- S21, t12, … are HTML page codes.

cmi, cmo, … are communicative sessions.