Knowledge Lab

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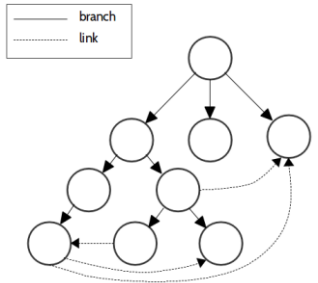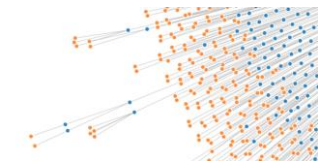
Department of Computer Science and Information Systems

Just-in-Time Personalisation of e-content

Research Aim

The creation of a recommender system based on the Learning Designer (learningdesigner.org). The recommender personalises users' personal spaces, which are part of a specialised web directory, containing learning designs. The system is grouping designs in similar learning spaces using an ontology. The system is also recommending similar designs in order to help authors create the best possible design for the type chosen for the design being created: traditional design, blended learning or online learning only; using experts' knowledge and community best practices as emerged using the system. Users' profiles are using learning design patterns as one of their properties and design patterns are linked together using Linked Data.

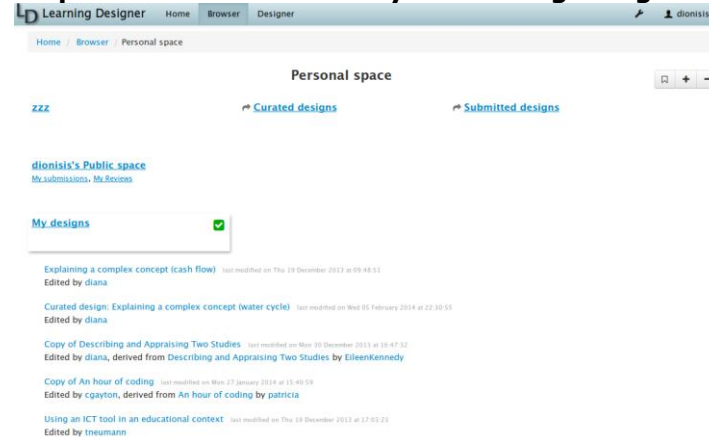## A specialised web directory of learning designs

Figure 1: User's personal space containing their learning designs and relevant designs and categories of other users.

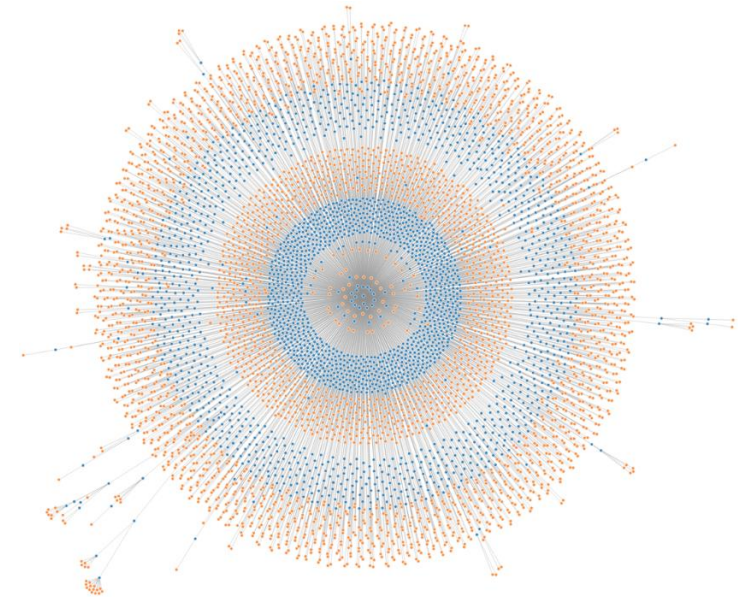## A prototype intelligent personal space

Figure 2: Structure of the specialised web directory

References

[1] Laurillard, D., Charlton, P., Craft, B., Dimakopoulos, D., Ljubojevic, D., Magoulas, G., Masterman, E., Pujadas, R., Whitley, E.A. and Whittlestone, K. (2013), A constructionist learning environment for teachers to model learning designs. Journal of Computer Assisted Learning, 29: 15–30.

[2] Dimakopoulos, D.N. and Magoulas, G.D., (2009) Interface design and evaluation of a personal information space for mobile learners, International Journal of Mobile Learning and Organisation, 3(4), 440-463.