

January 2015

Intervention of the UBS LMBA, France, at the COPERNICUS Alliance Conference, "Education for Sustainability : Building capacity in higher education", 3 and 4 October, 2014, Charles University, Prague, Czech Republic

Introducing some sustainable development notions to students of Mathematics using a nested cycles model

Abstract : We model the aspects of Nature which are relevant to a phenomenon of interest as an infinity of nested regular polygons with $1, 2, \dots, n, \dots$ vertices, inscribed in circles of radii $0, 1, 2, \dots, n-1, \dots$. Each polygon represents a natural cycle and each vertex a state of the cycle.

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This intervention has been published on the CNRS website:

<https://hal.archives-ouvertes.fr/hal-01098518>

and also on the Bristol University website:

<https://wikis.bris.ac.uk/display/BristolESD/Math+Resources>

UBS LMBA article, in collaboration with RCE Espoo, Finland, on "mind mapping"

Knowledge Representation for High Quality Learning

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Abstract : The common aim of graphical knowledge representation techniques in Education is to promote a deep approach to Learning. The use of graphical knowledge representation tools enhances learning and improves knowledge – when people are able to represent a complex set of relationships as a diagram, they are more likely to understand and remember them.

This article has been published on the CNRS Website :

<https://hal.archives-ouvertes.fr/hal-01098521>