



Technology datasheet

Computer Science

Fundamentals of programming



keywords

algorithmic
serious game
3D
eLearning

ALGOPATH

SERIOUS GAME OF COMPUTER FUNDAMENTALS



AlgoPath is a **3D Serious Game** that helps **learn fundamentals of computing** without even typing a single line of code.

The player is immersed in a virtual environment dedicated to roads construction where every object he/she can see (such as huts, houses, a crane, or an excavator) is related to computing concepts. The main goal of AlgoPath is to help avoid common errors made by beginners.

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<http://algopath.ifts.net/lejeu.php> (v1 + description)

https://www.youtube.com/watch?v=oK2_MLeI3a0 (v2)

benefits

Attractive and Fun : the 3D videogame environment helps avoiding the coding barrier

Educational : the object representations ease the learning of abstract concepts

Scalable : the game can match the needs of the student : from basics to object-oriented programming

applications

- Academic training
- Professional training

Source of the technology

Estelle Perrin, MCF
CReSTIC



development status

- TRL4 : Tested on 25 students in L1 and L3 degrees of Reims University
- Approved by Reims and Lorraine Universities teachers

further developments

- Interface improvements through Unity3D
- “Object-Oriented programming” concept
- Virtual Teacher



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