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University of Southampton Highfield

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C.Selby@soton.ac.uk. ABSTRACT. The term computational thinking has received some discussion in the field of computer science education research. The term is defined as the concept of thinking about problems in a way that can be implemented in a computing device.

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ABSTRACT. The term computational thinking has received some discussion in the field of computer science education

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Promoting computer science studies among preuniversity students seems the most direct solution to reverse this issue. In this context, we present the Sucre4Kids project whose main objectives are to engage young people into computational

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Thinking and programming concepts using tangible elements and social interaction.

New paper out on #SUCRE4KIDS FOR PROMOTING #COMPUTATIONAL

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Visual programming languages allow teachers to organize new educational activities aimed at promoting computational thinking processes and facilitating the learning of programming concepts. In particular, Kodu Game Lab includes features that we identify as specifically suitable in primary school context.

Promoting computational thinking and creativeness in ...

Prerequisite computational thinking knowledge: Algorithms and procedures;

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data collection, analysis, and representation; abstraction; and problem decomposition Prerequisite C knowledge:

Data types, variables, constants; STEM computations; selection; iteration (looping); arrays; strings; and functions

Throughout this course the computational thinking topics you'll explore are:

automation, simulation, parallelization, and algorithm analysis. For the programming topics, you'll continue building ...

Computational Thinking with Beginning C Programming ...

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Developing Computational Thinking in Compulsory Education – Implications for policy and practice In the past decade, Computational Thinking (CT) and related concepts (e.g. coding, programming, algorithmic thinking) have received

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Thinking attention in the educational field. This has given rise to a large amount of

Developing Computational Thinking in Compulsory Education

Abstract. Bebras, an international challenge organized on an annual basis in several countries (50 in 2016), has the goal of promoting informatics and computational thinking through attractive tasks.

Teaching Computational Thinking and Coding in Primary Schools Coding as a Playground Mobile Learning Applications in Early Childhood Education Report of a Workshop on the Pedagogical Aspects of Computational Thinking Promoting

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