

Why Computational Thinking Should Be Integrated Into The Curriculum

2010 CS Research Day Poster Abstract

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Computational Thinking (CT) is an approach to problem solving that consolidates logic skills with core computer science concepts. Recently, there has been a call for CT to be incorporated into all levels of education [1]. Many universities have already revised computer science courses emphasizing CT. In a similar fashion, the Computer Science Department at The University of Memphis incorporated a CT based approach into the introductory programming sequence beginning in the Fall 2009 semester. The poster presented at the CS Research Day covering CT will review recent efforts to integrate CT into primary, secondary and post secondary curricula. In addition to the material presented in [2], a review of CT related educational tools will be presented.

References

- [1] Wing, J. M., Computational Thinking, *Communications of the ACM*, 49, (3), 33-35, 2006.
- [2] Qualls, J., Sherrell, L. B., Why computational thinking should be integrated into the curriculum, 8th *Annual Consortium for Computing Science Colleges Mid-South Conference*, to appear.