Learning algorithms in technologically and artistically enhanced interactive environments

Abstract: In this talk I am going to give an overview of my research results in promoting algorithmic/ computational thinking for all by introducing them in algorithmics. Some of my topics are:

• Technologically and artistically enhanced multi-sensory algorithmics education.
• Selective hiding for improved algorithmic visualization.
• Intercultural algorithmics education.
• The challenge of promoting algorithmic thinking of both sciences and humanities oriented learners.

Short bio: Dr. Zoltán Kátai started his professional career (1992-) as an informatics teacher in secondary education. Nowadays (2001-) he is an associate professor at Sapientia University (Mathematics and Informatics Department), Targu Mures, Romania. His research includes topics like computer supported-assisted teaching-learning (especially in the field of computer algorithms), dynamic programming and graph theory.

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