

laden gemeinsam zum

GASTVORTRAG

Laurent Fuchs

Université de Poitiers, France

“Omega-Numbers; A Way to represent Real Numbers”

Abstract:

In this talk a pragmatic approach to represent real numbers is presented.

The main idea is to work with integer sequences that both represent integer numbers and a sequence of scales.

Hence, objects defined upon real numbers such as real functions are defined using integer numbers with respect to scale sequences.

This approach leads to a discretization process based on the discretization of the Euler scheme that computes numerical approximation of solutions of differential equations.

Elementary example will be developed and coherent foundational framework will be explained.

Biography:

Laurent Fuchs is senior lecturer at the University of Poitiers, France XLIM-SIC Laboratory since 1998.

He graduated in mathematics at the University of Strasbourg, France.

He received his Ph.D. degree in computer science from the University of Strasbourg.

His main research interests include topological based modeling, formal computer graphics and geometric algebras.

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