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Bachelor degree in “Computer Science and Engineering” from St. Petersburg State Polytechnic University (2009).

Master degree “Computer Science and Engineering” from St. Petersburg Polytechnic University (2011).

Author of 9 scientific publications – conference papers, articles.

Training.

OpenMVLSHELL in Education

(Concise course).

keywords: Computer Modelling, Package Design, Simulation Languages, Standards, Object Modelling Techniques, Numerical modeling, MvStudium Group.

Lecture 1. Specification of Complex Dynamical Systems (CDS) in different tools: Matlab, Dymola, Ptolemy, Rand Model Designing. Numerical modeling of CDS. What does it mean standardized specification of CDS and standardized numerical modeling? Destination and structure of OpenMVLSHELL.

Lesson 1. How to build a model and carry out an computational experiment in OpenMVLSHELL. Examples: Pendulum. Bouncing ball.

Lecture 2. Modeling languages standards. Using UML для моделирования сложных динамических систем. Object-Oriented modeling. Static Structure diagram. State Charts.

Lesson 2. Designing of simple component model. PID-controller.

Lecture 3. Computational experiment. Special numerical methods for systems with special structure.

Lesson 3. Using OpenMVLSHELL in training. Collaborative model development.