

Abstract Submitted
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Bringing education to your virtual doorstep VITALIY KAUROV, Wolfram Research Inc. — We currently witness significant migration of academic resources towards online CMS, social networking, and high-end computerized education. This happens for traditional academic programs as well as for outreach initiatives. The talk will go over a set of innovative integrated technologies, many of which are free. These were developed by Wolfram Research in order to facilitate and enhance the learning process in mathematical and physical sciences. Topics include: cloud computing with Mathematica Online; natural language programming; interactive educational resources and web publishing at the Wolfram Demonstrations Project [1]; the computational knowledge engine Wolfram Alpha [2]; Computable Document Format (CDF) and self-publishing with interactive e-books; course assistant apps for mobile platforms. We will also discuss outreach programs where such technologies are extensively used, such as the Wolfram Science Summer School [3] and the Mathematica Summer Camp [4].

[1] <http://demonstrations.wolfram.com>

[2] <http://www.wolframalpha.com>

[3] <http://www.wolframscience.com/summerschool>

[4] <http://www.mathematica-camp.org>

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