Intelligent & Dynamic Geometry in Education

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Intelligent & Dynamic Geometry

The pursue of an "Intelligent and Dynamic Geometry Book"
should involve the study of how current developing methodologies
and technologies of mathematical (geometry) knowledge
representation, management, and discovery can be incorporated
effectively into the education of the future.

Book of the Future (circa 2050)

Just as Doron Zeilberger pointed out in the *Plane Geometry: An Elementary Textbook By Shalosh B. Ekhad (Circa 2050)*,[1] a geometry book from the future should be a computer program, in which all the theorems can be automatically discovered (and of course proved) by computer and beautiful illustrations can be automatically generated and dynamically modified.

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[1] http://www.math.rutgers.edu/~zeilberg/GT.html

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Cloud Platform

Such a *blended-learning* Cloud platform, freely available in all standard computational platforms and devices, *collaborative*, *adaptive* to each and every user's profiles, would bring together a whole new generation of mathematical tools with impact in all levels of education.

Experts & Expertise Needed

To realise such book we must build a network of experts,
increasing the connections between several research communities

- *Mathematical Knowledge Management*

aggregating expertise in areas such as

- *Interfaces & Searching — Learning Environments in the Cloud*

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