

**“new, original brain teasing”**

# **XColony EDU**

## **Educational Programs**

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**Mioara Manaila, M.Sc.,**

**Project Manager, EU**

**[mioara.manaila@x-colony.com](mailto:mioara.manaila@x-colony.com)**

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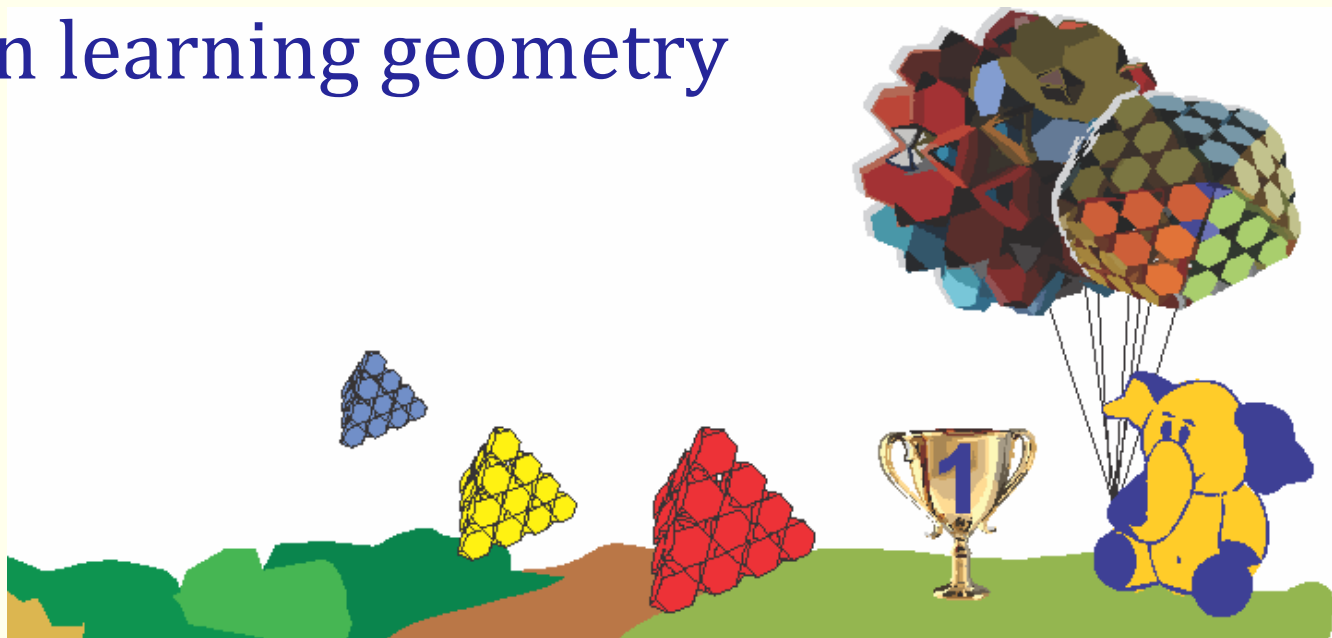


# Enhanced Spatial Intuition

**XColony**  
A Spatial Cognition Tool

## **XColony System** (unique and innovative):

1. Experimenting 3D properties of the modules
2. Solving geometric puzzles
3. Key ingredient in learning geometry

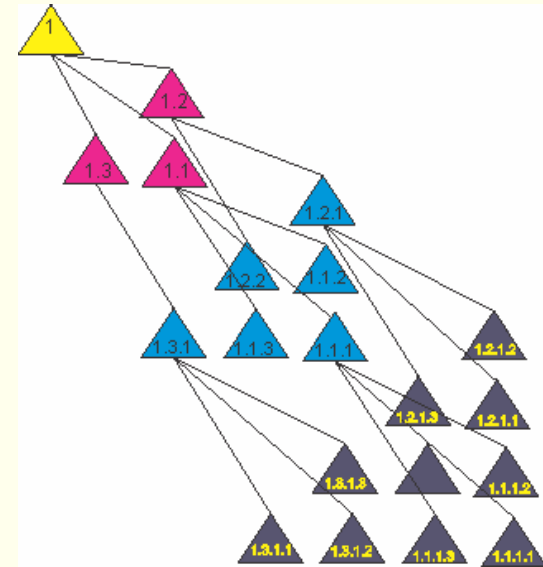


# Enhanced Spatial Intuition

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## Visual knowledge acquisition:

1. Hierarchical modularity
2. Isomorphism, symmetry
3. Combinatorial geometry
4. Abstraction, Complementarity and Duality
5. Domain decomposition/spatial tessellations
6. Complexity/Kinetics/Rigid systems
7. Natural computing systems and simulations (evolutionary)



# Educational Features

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## **Creativity and Innovation**

- Smooth learning curve; using the visual centers
- inciting, relaxing and fun

## **Spatial Cognition**

- 3D, visual communication, spatial sensitivity, improved IQ
- Strategic planning, intuitive resource for decision making

## **Enhanced Motricity**

- Activity oriented
- Increasing complexity

## **Arts&Crafts**

- Touch and feel
- Forms and colors

## **Social Impact**

- Team work, in charge, positive thinking
  - Guided play: teacher-student, parent-child
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# Formal Programs

**XColony**  
A Spatial Cognition Tool

- Well-defined curriculum
- Off-the-shelf programs
- Extensive programs available (up to 4 years; 1hour/week)
- Certified instructors
- Certified materials





# XColony Friends

**XColony**  
A Spatial Cognition Tool

## Science

- Spatial Geometry
- Computational Architecture
- Robotics
- Synthetic Biology
- Computer Science

## Art

- Kinetic Sculptures

## Education

- Introduction to spatial geometry
- 8th period, after school, summer camps

## Psychology

- Relaxation
- Brain Training



# XColony Applications

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A Spatial Cognition Tool

## **Learn by playing programs:**

- Friendly introduction to spatial geometry
- Optional/after school programs
- Summer camps
- Clubs

## **Arts&Crafts:**

- Exhibitions
- Competitions

## **Research (early stage):**

- New (toy) design
  - Interdisciplinary connections
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Ideas for collaboration:  
**Educational Programs**  
**Experiments**  
**Tests**  
**Grants**

[www.x-colony.com](http://www.x-colony.com)

[mioara.manaila@x-colony.com](mailto:mioara.manaila@x-colony.com)

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