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**UNIVERSITÀ
DI TRENTO**
Dipartimento di
Matematica

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Beyond the Usual Playing

April - May 2025

The event is supported by BUP and the Department of Mathematics, with the collaboration of Ludimus, MUSE - Museo delle Scienze di Trento and FabLab UniTrento

1 April

Walks on the Hexagon

In the 1940s Piet Hein and John Nash invented a two-players game over an hexagonal board called Hex. The study of winning strategies is deeply related to fascinating mathematical results. **Angelo Valente** (PhD student, Dept. of Mathematics) will help us to connect the game of Hex with concepts in topology and mathematical analysis.

Games to play: Chomp, Hex, TwixT

6 May

Dobble: Spotting similarities with geometry

The Dobble game has some intriguing mathematical properties, beyond its circular-shaped cards. Exploring which Dobble decks can be constructed leads to a simple yet fascinating combinatorial problem, while determining which symbols to place on which cards involves aspects of projective geometry. **Luigi Amedeo Bianchi** (Associate Prof., Dept. of Mathematics) will show us how to customize our own deck to make it even “better” than the ones available for purchase.

Games to play: Dobble, Set

15 April

AI at play

In pure strategic board games with no random elements, the number of possible configurations grows rapidly, requiring a complicated and careful search for the optimal move. Games with high complexity offer an interesting playground for strategic thinking and AI developments. **Alessandro Pini** (Ludimus & master student, Dept. of Information Engineering and Computer Science) will help us to see how games like Go and Quoridor have been analyzed by AI.

Games to play: Quoridor, Hive

13 May

Sudoku ergo sum

A game night dedicated to logical-deductive reasoning and sequential solving of numerical puzzles. Some games in this genre include Sudoku and its variants, as well as logic grids. Team up with your friends and get ready for the challenge!

Games to play: Sudoku variants, logic grids

For any question or desire for further information you can refer to the organizers:

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The events will be held in the reading room “Omerti”, BUP, 6 pm to 8 pm.

Participation in the meetings is open to the UniTrento community upon reservation, available through the following form: <https://forms.gle/bwvcXn6rk55iiTYv8>



or at the BUP Circulation desk.

The meetings will take place in **Italian language**. English language support will be available as well during the gaming session.

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