

NEW PERSPECTIVES ON COOPERATIVE LEARNING IN SCIENCE: WHAT CAN EDUCATORS LEARN TODAY FROM SOCIAL GAME DESIGN IN UNIVERSITY ONLINE TEACHING?

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MEET THE TEAM



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THE PROBLEM: LESS SOCIAL INTERACTION

The Pandemic diminished social interaction in university teaching - new ways to foster cooperation and interaction are needed



OUR IDEA: COOPERATIVE LEARNING

Cooperative learning as a method to enhance teaching for ongoing online education and face-to-face teaching, blended and hybrid education scenarios.





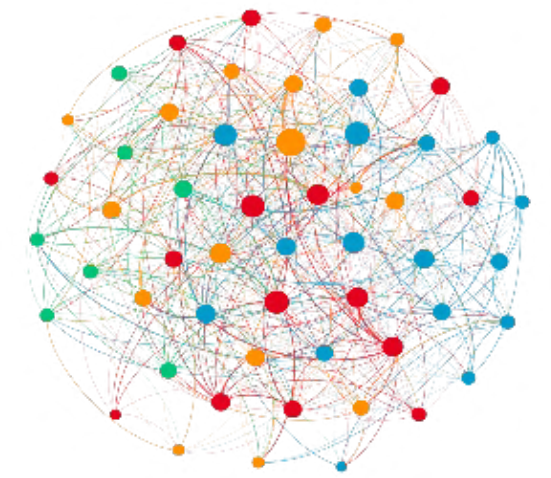
OUR IDEA: LOOK SIDeways!

A look into the game industry shows how
motivation works



FROM GAMES TO EDUCATIONAL THEORY

EMPAMOS



100

game elements as a pattern language

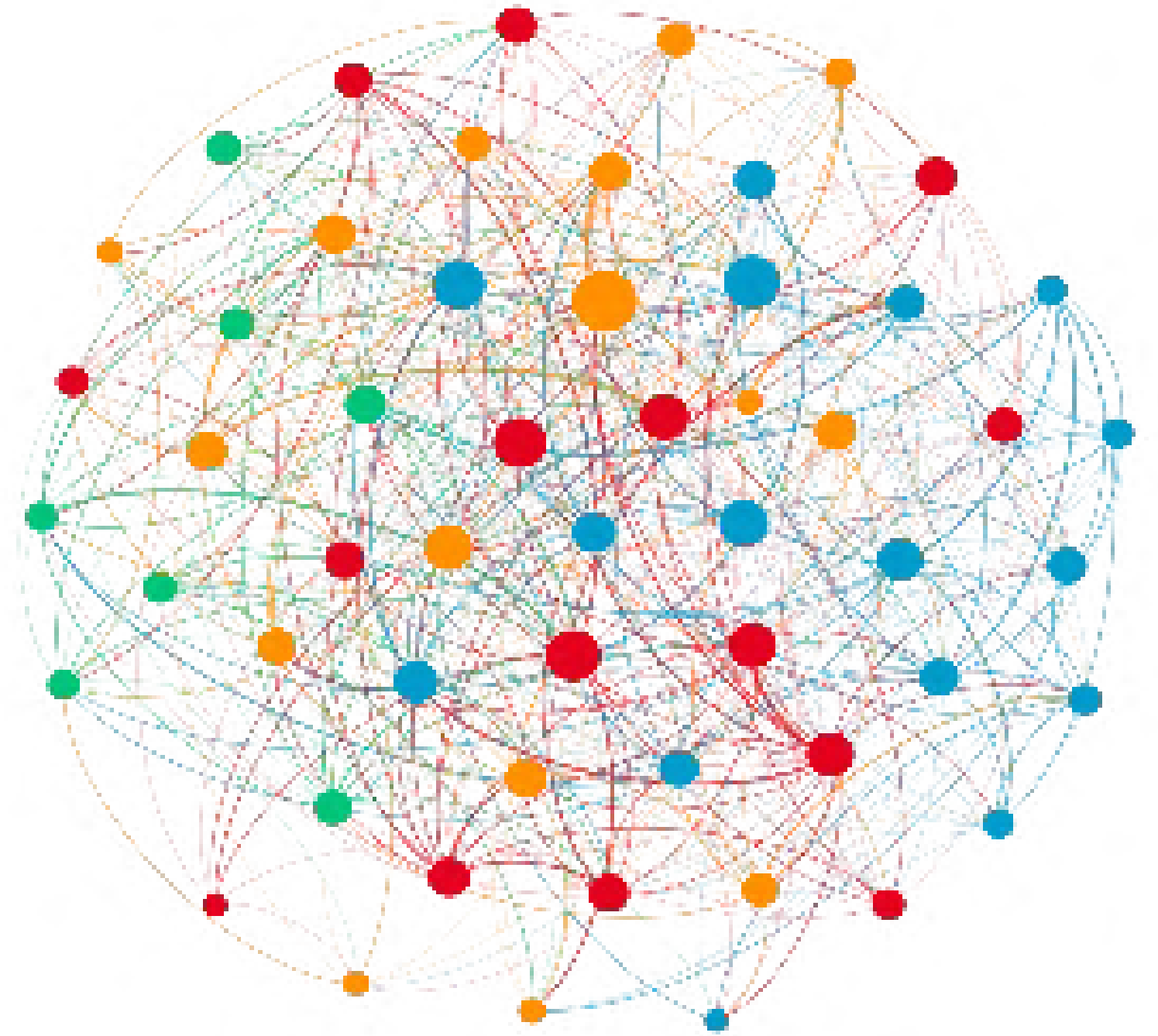
8300

games

50 000

connection descriptions

**COOPERATIVE
MOLECULES USE
TERMS THAT ARE
CONNECTED TO CERTAIN
CONCEPTS IN
EDUCATIONAL SCIENCE**



SHIFTING THE ROLE OF THE EDUCATOR TOWARDS A GUIDE OR COACH: SITUATED LEARNING



TRAIN THE TRAINER: DEVELOPING A CURRICULUM

To enable educators to implement motivational
molecules from game design to collaborative learning
opportunities



DISCUSSION

- 1.It is too early to tell if the molecules can support educators in designing motivating cooperative learning opportunities.
- 2.Constant need for organizational effort
- 3.Empirical database needs to be developed further





THANK YOU!

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All graphics and images: Di2Design / Unsplash