



STRATEGOS Webinars

Game Theory Webinars/Workshops

9.00-12.00A, February 18, 2022, Webinar on **STRATEGOS** Webinars MS Teams
 9.00-12.00A, February 25, 2022, Webinar on **STRATEGOS** Webinars MS Teams
 9.00-12.00A, March 11, 2022, Webinar on **STRATEGOS** Webinars MS Teams
 9.00-12.00A, March 18 & 25, 2022, Webinar on **STRATEGOS** Webinars MS Teams

POC: Prof. Lucia Pusillo, University of Genoa, pusillo@dima.unige.it

These Workshops proposes Fundamentals & Applications of Game Theory to provide techniques and methodologies to support decisions in complex environment

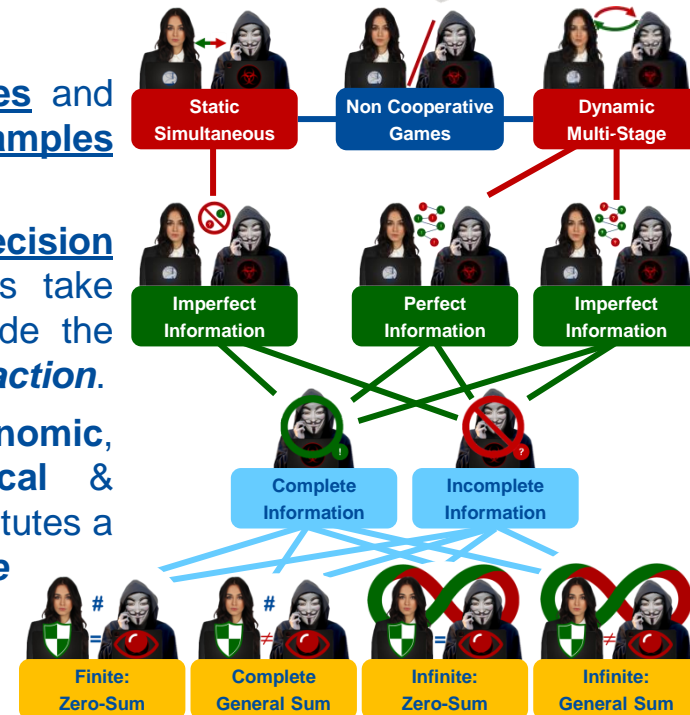
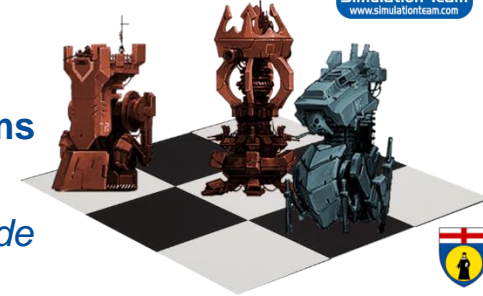
Workshop Description

These Workshops present Game Theory as well as Methodologies and Techniques to face *Challenges* in this sector and include Several Examples and Case Studies to understand how to apply it to Real Problems

Game Theory studies Strategic Interactions between two or more Decision Makers and situations in which two or more Rational Individuals take decisions to *optimize their goals*. The major purpose is to provide the *methodological knowledge* to deal with *Problems of Strategic Interaction*.

This Theory, using *Mathematical Techniques*, has applications in **Economic, Political, Military, Biological, Engineering, Industrial, Medical & Biological Fields**; for these reasons, a deepening of this subject constitutes a stimulus to carry out Multidisciplinary Works & start a fruitful *dialogue between mathematics and other sciences*, providing elements to understand the Complex Dynamics present in these Phenomena

3 CFP Credits for each Webinars by Order of Engineers



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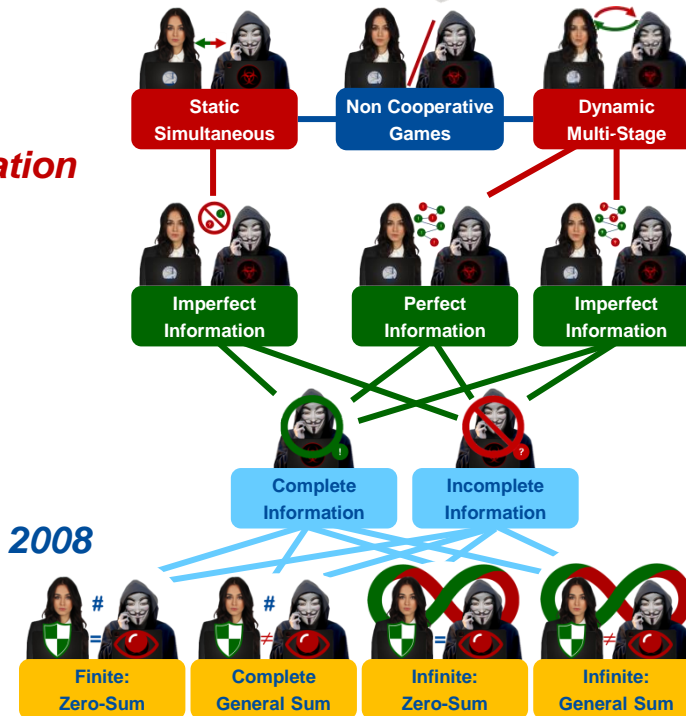
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PROGRAMM: Game Theory for STRATEGOS Students:

1. Introduction to Game Theory
2. Zero Sum Games with two Players
3. Non Co-operative Games and Equilibria
4. Static, Dynamic Games with Examples
5. Extensive Form of a Game
6. Games with perfect Information & Games with Complete information
Difference & Examples
7. Examples of Duopoly Games in the Static & Dynamic Cases
8. Cooperative gGames
9. Solutions for Cooperative Games: Core and Shapley Value
10. Track about Multicriteria Problems and Games
11. Examples from Real Life: Environmental Problems

References:

- H.Peters "Game Theory. A Multi-leveled Approach" Springer ed., 2008
- Julio Gonzalez-Diaz, Ignacio Garcia-Jurado, M.Gloria Fiestras.J
"An introductory course on Mathematical Game Theory" AMS,
Real Sociedad Matematica Espanola, 2010



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