



RÉPUBLIQUE  
FRANÇAISE

*Liberté  
Égalité  
Fraternité*

TELECOM  
SudParis



IP PARIS

s@movar

**Author :** Amal SAKR

**Title:** « Co-Investment under Uncertainty Based on Coalitional Game Theory »

**Short Abstract:**

My research investigates cooperative investment in costly digital infrastructure under uncertain revenues that cannot be undertaken by a single actor alone.

It studies stability, profitability, and long-term support of cooperation under revenue fluctuations, dynamic participation of actors, and infrastructure updates.

The problem is modeled using coalitional game theory. Applications are motivated by Mobile Edge Computing.