



# Deterministički modeli operacionih istraživanja (DMOI)

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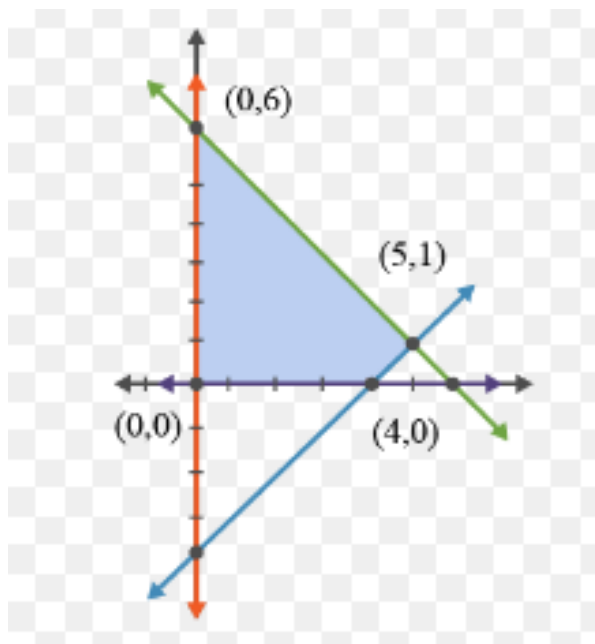
## DMOI – opšte informacije

- Predmet se sluša u prvom semestru MAS
- Fond časova: 2 + 2
- Zbog pandemije Covid 19 predavanja i vežbe biće organizovani online
- Prisustvo predavanjima i vežbama je poželjno ali nije i obavezno
- Materijali za određene oblasti biće dostupni studentima preko e-learning platforme
- Ispit se polaže pismeno (preko kolokvijuma ili ispita) i usmeno
- Zadaci na pismenom ispitu se rešavaju primenom odgovarajućih softvera



# DMOI – oblasti koje će se obrađivati

1. Linearno programiranje i analiza osetljivosti (primena softvera Excel Solver i Lindo)



	A	B	C
1	x1	x2	
2		0	0
3			
4	F =	0	
5			
6		0 <=	15
7		0 <=	8
8		0 <=	6
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			

Solver Parameters

Set Objective:

To:  Max  Min  Value Of:

By Changing Variable Cells:

Subject to the Constraints:

Make Unconstrained Variables Non-Negative

Select a Solving Method:

Solving Method

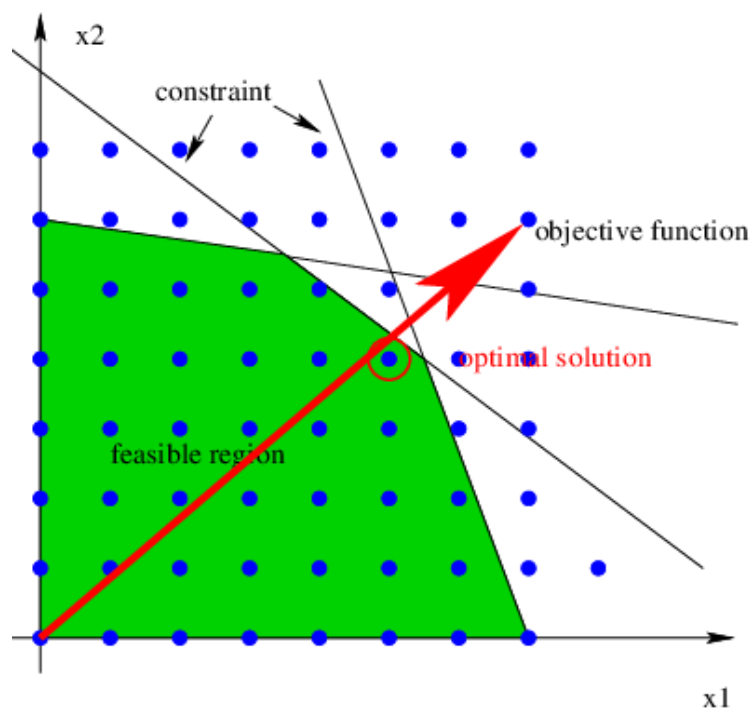
Select the GRG Nonlinear engine for Solver Problems that are smooth nonlinear. Select the LP Simplex engine for linear Solver Problems, and select the Evolutionary engine for Solver problems that are non-smooth.

Buttons: Add, Change, Delete, Reset All, Load/Save, Help, Solve, Close



# DMOI – oblasti koje će se obrađivati

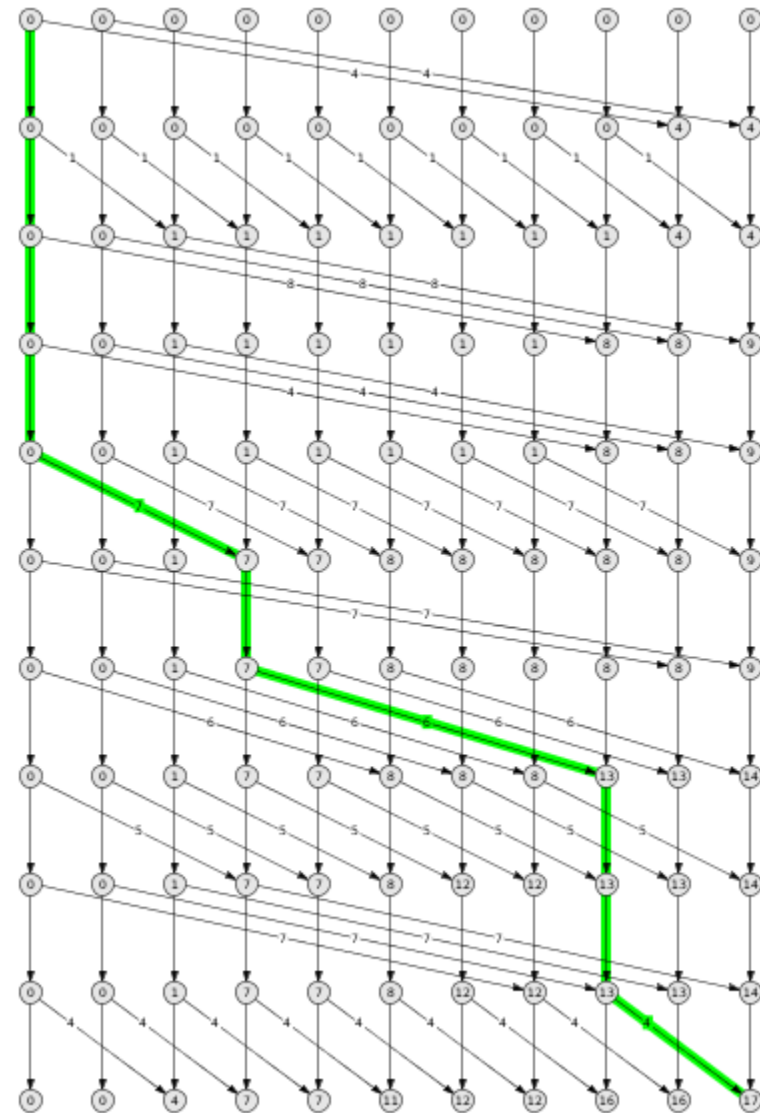
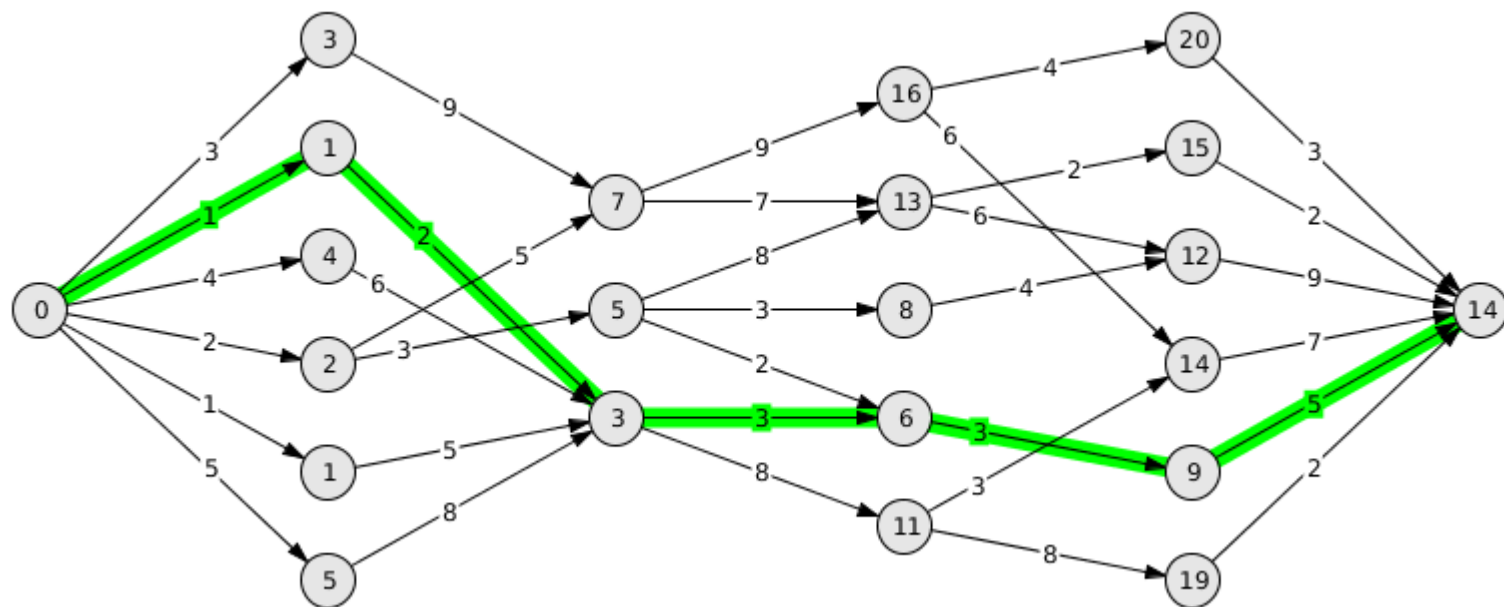
2. Celobrojno i mešovito celobrojno linearno programiranje (rešavanje zadataka pomoću softvera)





# DMOI – oblasti koje će se obrađivati

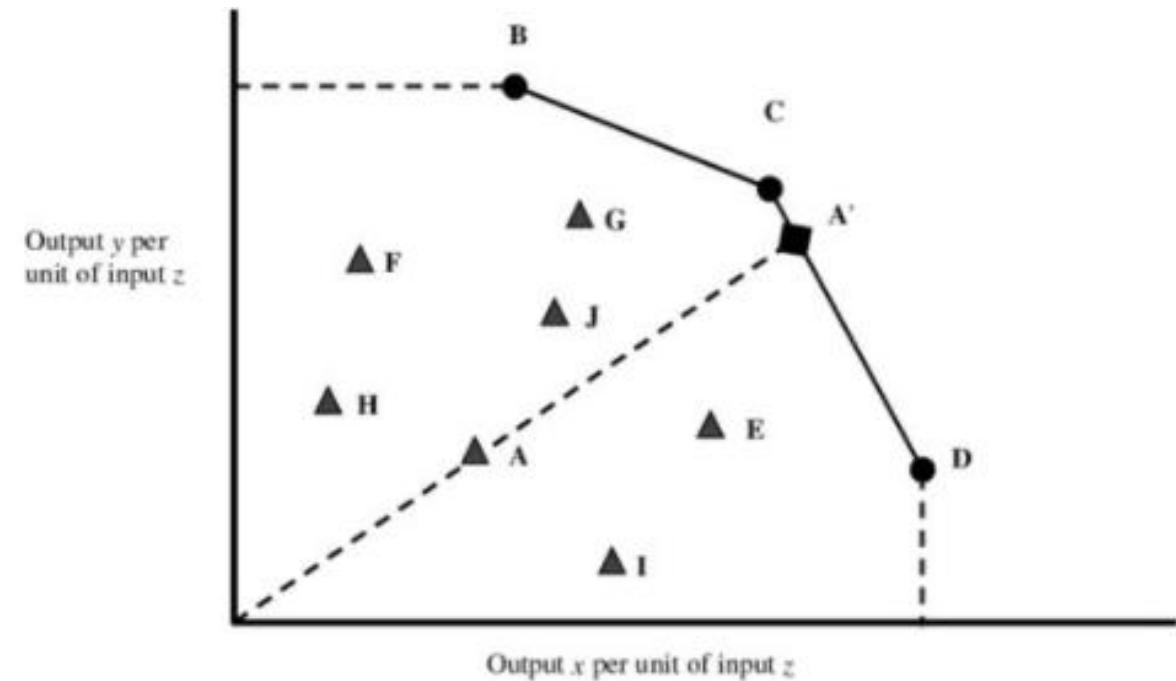
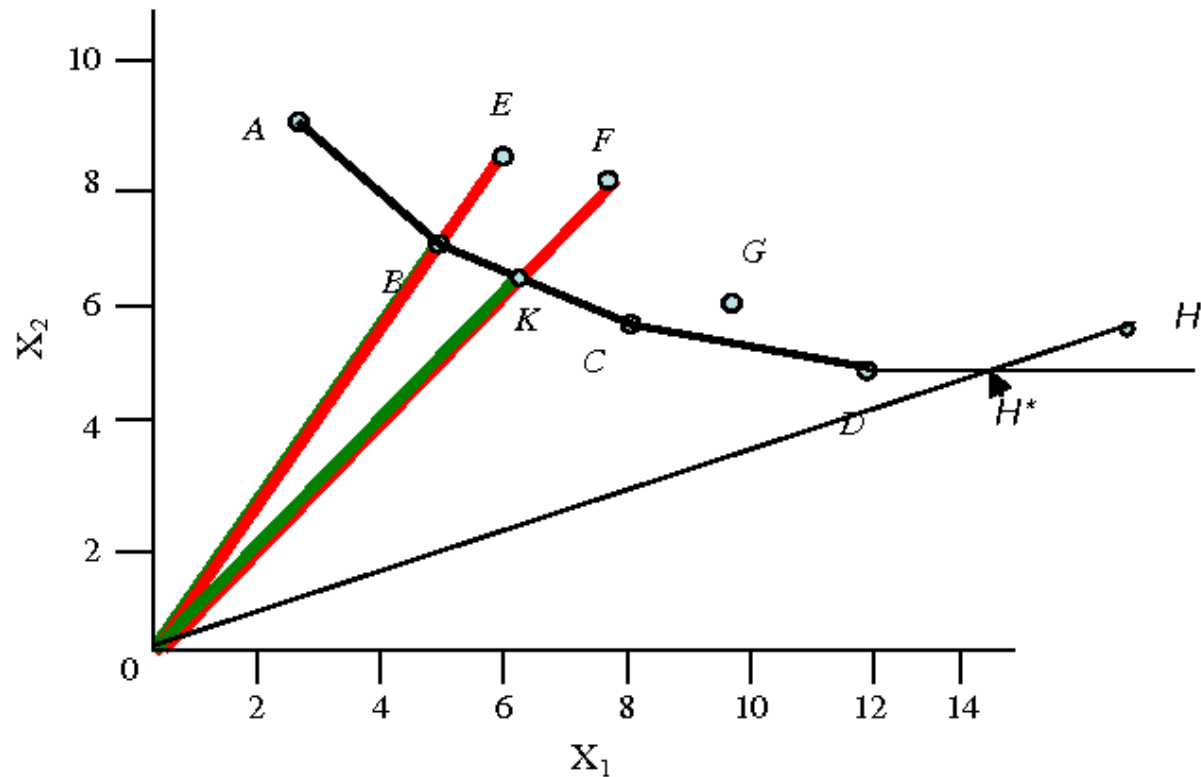
## 3. Dinamičko programiranje





# DMOI – oblasti koje će se obrađivati

## 4. Primena Analize obavljanja podataka u saobraćaju i transportu





## DMOI – kontakti

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