

***Práctica Electiva***

# ***Redes MLP y recurrentes para estimar el preconditionador Simplex en problemas de optimización continua***


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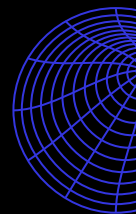
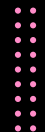


# ***Contenidos de esta presentación***



## Avances:

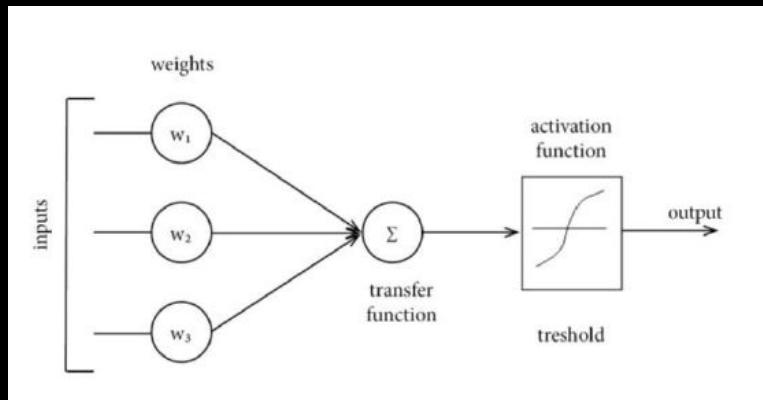
1. Documentación y estado del Arte.
    - a. Anteproyecto Nicolás Calderón.
    - b. Interval Branch-and-Bound algorithms for optimization and constraint satisfaction: a survey and prospects by Ignacio Araya & Victor Reyes.
    - c. The Simplex-simulated Annealing Approach To Continous Non-Linear Optimization by Margarida F. Cardoso, R. L. Salcedot and S. Feyo De Acevedo.
  2. Reuniones con profesor y Memorista (Introduciendo contexto del tema a investigar).
  3. Conociendo la herramienta Ibex.
  4. Instalación y creación de ambiente de pruebas.
  5. **Demo.**
  6. Primeras conclusiones.
- 



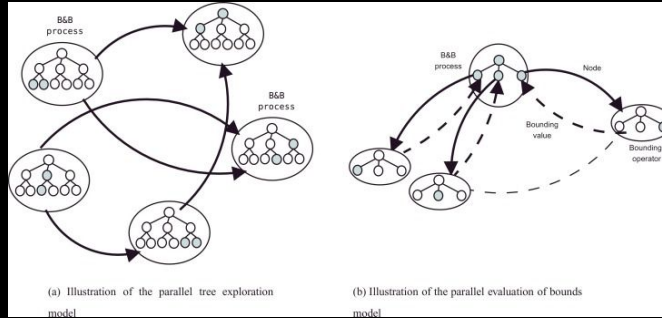
**01.a**

# ***Anteproyecto Nicolás Calderón***

- Branch and Bound (B & B).
- Modelos No Lineales.
- Dominios Continuos.
- Simplex.
- MLP.

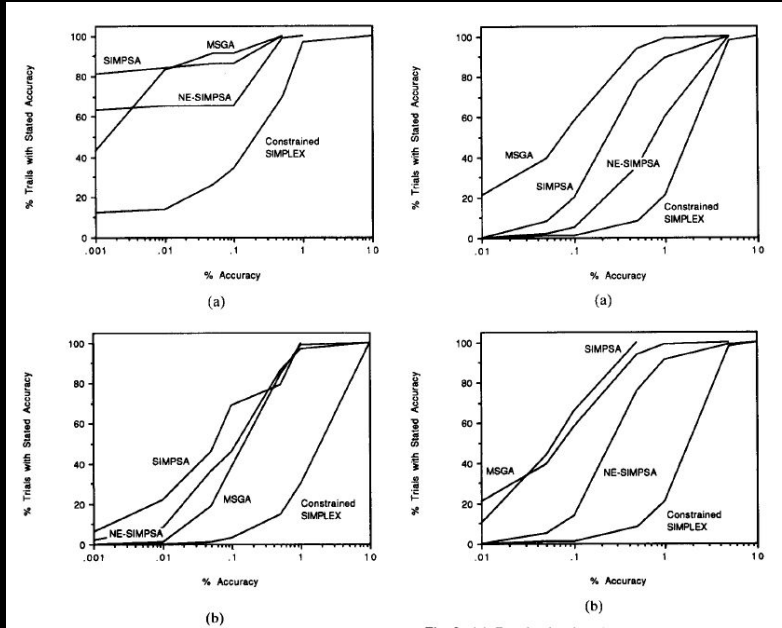


01.b



***Interval Branch-and-Bound algorithms for optimization and constraint satisfaction: a survey and prospects por Ignacio Araya y Victor Reyes***

01.c



***The Simplex-simulated Annealing Approach To Continuous Non-Linear Optimizaxion by Margarida F. Cardoso, R. L. Salcedot and S. Feyo De Acevedo.***

02

# Reunión



03



***Ibex***

<http://www.ibex-lib.org>

ibex-team/ibex-lib

IBEX is a C++ library for constraint processing over real numbers.

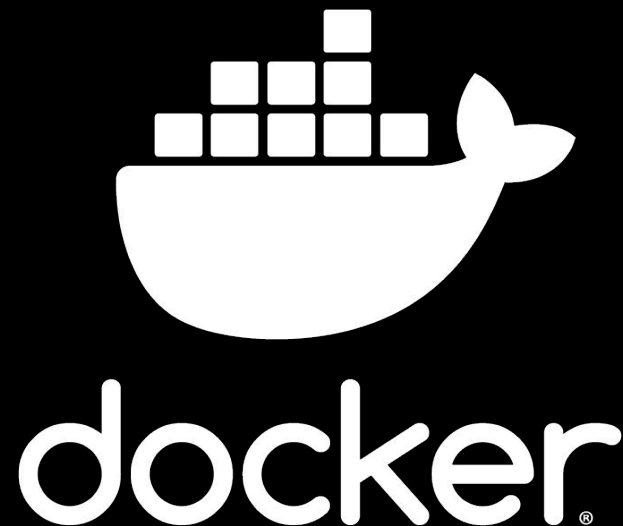
Contributors	Issues	Discussions	Stars	Forks
23	44	9	58	47

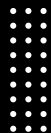
04

# *Instalación*



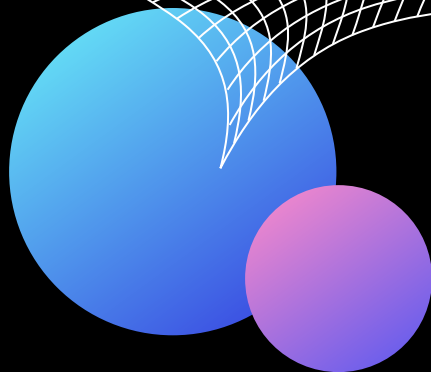
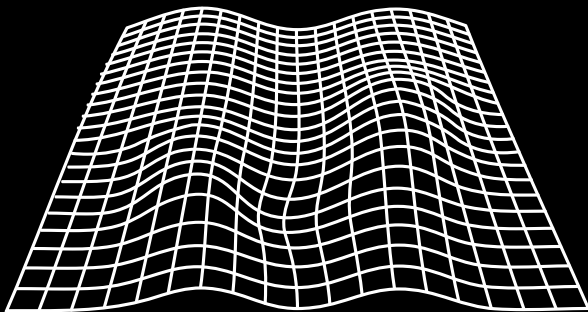
```
1  version: '3.7'
2
3  services:
4    app:
5      image: app
6      build: ./back
7      container_name: app
8      ports:
9        - 81:8000
10     #make a volumes for an entire folder of cpp files
11     # volumes:
12     #   - ./back:/app&ibex-lib/examples
13     #make still runing container
14     stdin_open: true
15     tty: true
16     #make a container restart when it stops
17     restart: always
18     #make a container run in background
19     command: /bin/bash -c "while true; do sleep 1; done"
```





05

*Demo*





# **06 Conclusiones**

