The solution for your problem

Engenharia de Software II
Docente: Vítor Basto Fernandes
2018

Equipa:

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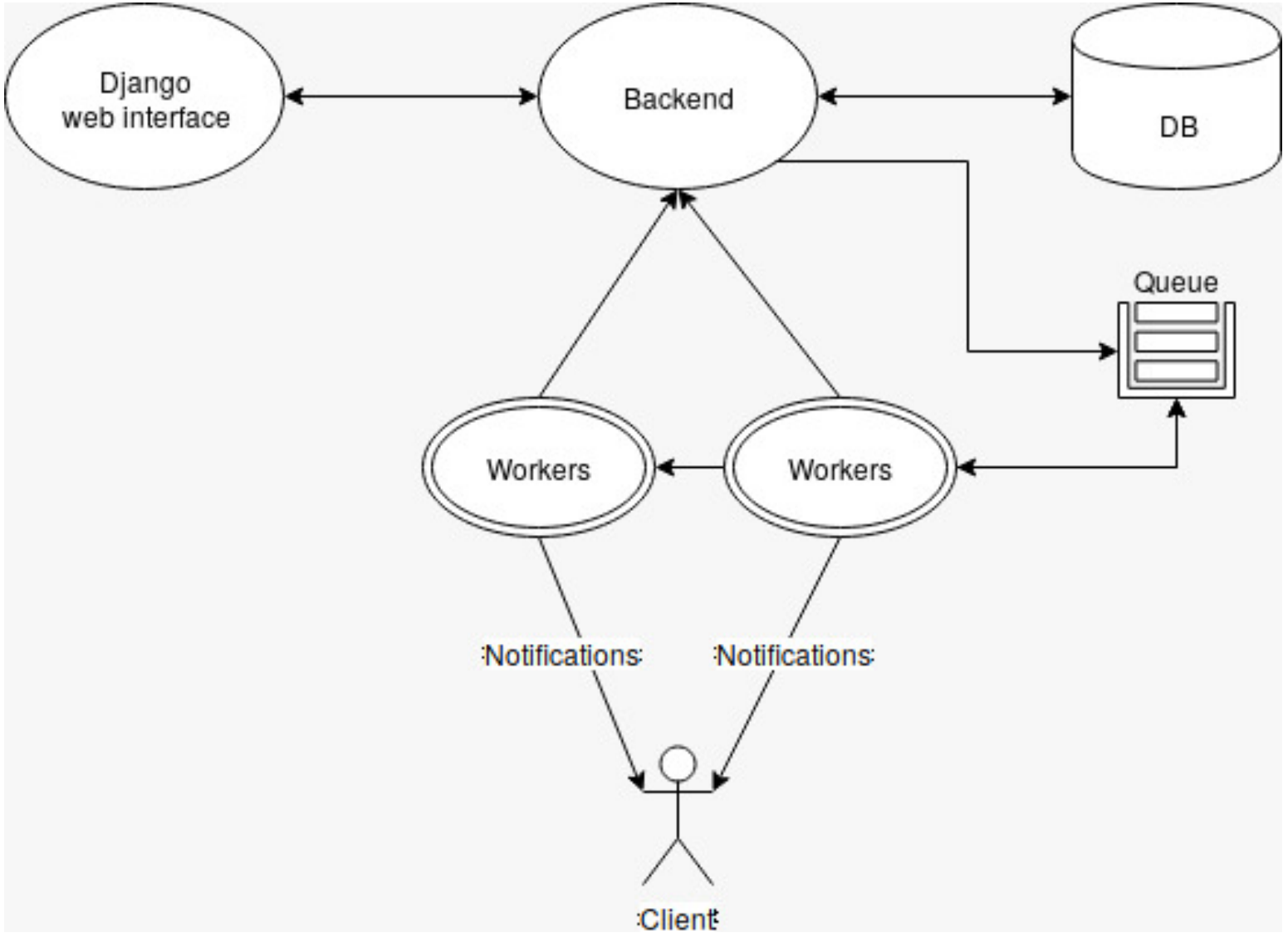
- Mauro Pinto
- Miguel Amaro
- Michael Carvalho

Github e *Trello*:
ES2-2018-LEI-PL-81

Arquitetura da aplicação Polyplot



Pontos fortes

- **Interface *User-Friendly***: Utilização do JAR
- **Configurações dos módulos**:
  - *Django*: .env
  - *Spring Boot*: .properties
- **Fila de tarefas**: *RabbitMQ* – Assíncrona, paralela e distribuída
- ***MariaDB***: guarda as configurações, execuções e resultados para cada Cliente
- **Gráficos**: *Chart.js*
- **Notificações de progresso**:
  - Quando inicia e quando termina a execução; aos 25, 50 e 75% do progresso – utilização de um decorador
- **Interrupção das execuções**: Tempo limite imposto pelo Cliente

Confirmação da execução de um problema – nomes de variáveis e objetivos default

Configuration details

Problem name
Experiencia

Problem description
O que for

Waiting time
1800

User solutions
Not submitted

Algorithm choice method
Manual

Selected algorithms
RandomSearch
SMSEMOA
MOCell

Variables quantity
10

Variable names
var1
var2
var3
var4
var5
var6
var7
var8
var9
var10

Objectives quantity
2

Objective names
obj1
obj2

Back to my configurations

Submit execution request ▶

Histórico de configurações

My configurations

Configuration Name	Description	Date	
Configuration Name	Description		
OneZeroMaxasd	qwd	2018-05-26 at 12:35:04	Open
OneZeroMaxasd	qwd	2018-05-26 at 12:34:16	Open
BinaryFox	dwq	2018-05-26 at 11:48:05	Open
OneZeroMax2	qwd	2018-05-24 at 19:04:48	Open
NMMin2	NMMin2	2018-05-24 at 18:53:18	Open
NMMin	NMMin	2018-05-24 at 18:51:52	Open
Kursawe	Kursawe	2018-05-24 at 18:49:09	Open

Histórico de execuções

Execution history

Problem Name	State			
Problem Name	**State**	**Start Date**	**End Date**	
NMMin2	**Finished**	2018-05-24 at 19:37:37	2018-05-24 at 19:37:43	Open
Kursawe	**Finished**	2018-05-24 at 19:37:01	2018-05-24 at 19:37:08	Open
OneZeroMax2	**Finished**	2018-05-24 at 19:36:36	2018-05-24 at 19:36:45	Open
OneZeroMax2	**Finished**	2018-05-24 at 19:04:51	2018-05-24 at 19:04:57	Open
NMMin2	**Finished**	2018-05-24 at 18:53:21	2018-05-24 at 18:53:29	Open
NMMin	**Finished**	2018-05-24 at 18:51:55	2018-05-24 at 18:52:02	Open
Kursawe	**Finished**	2018-05-24 at 18:49:12	2018-05-24 at 18:49:18	Open

Gráfico da qualidade das soluções por objetivo – Escala adaptável

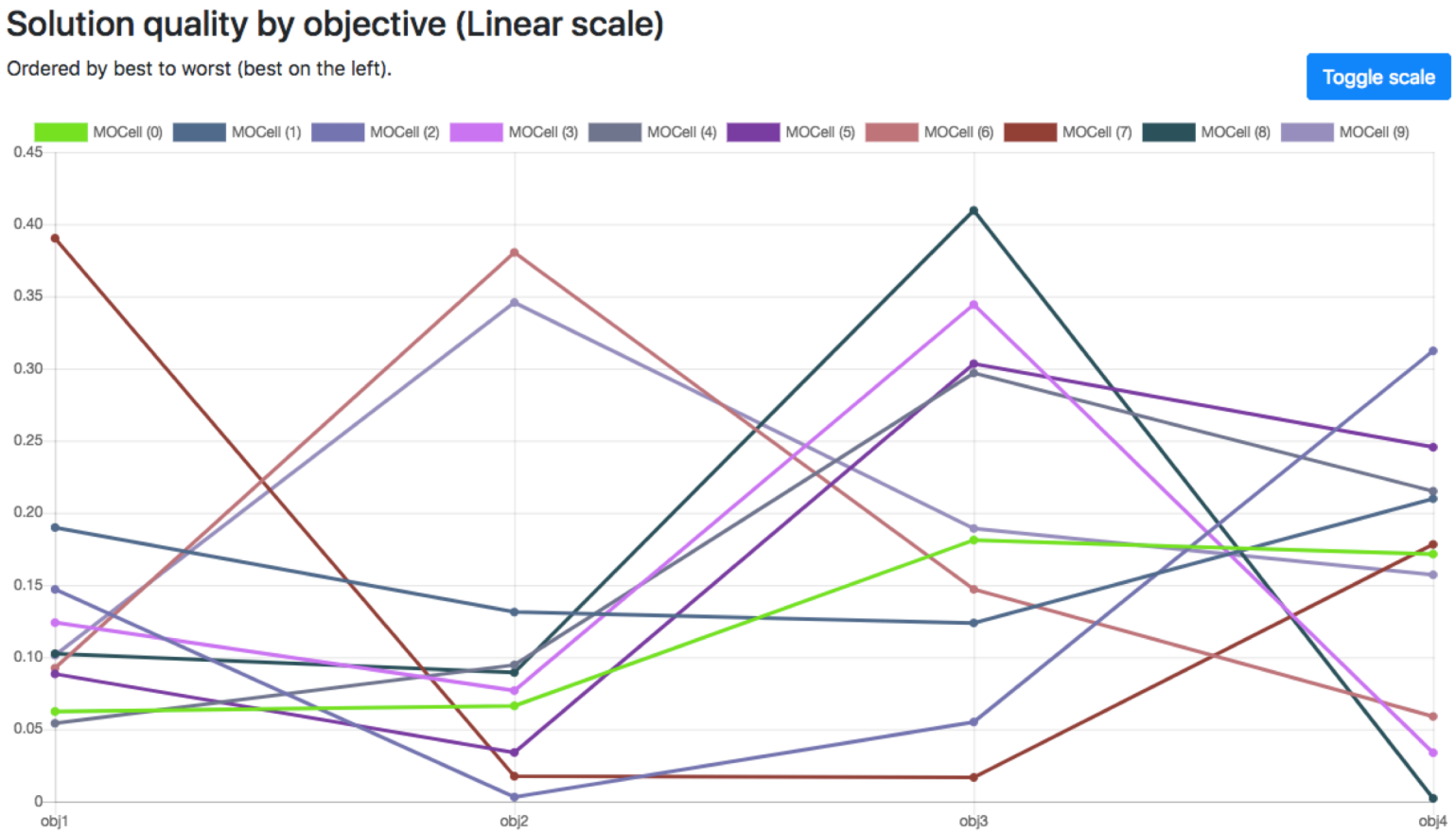
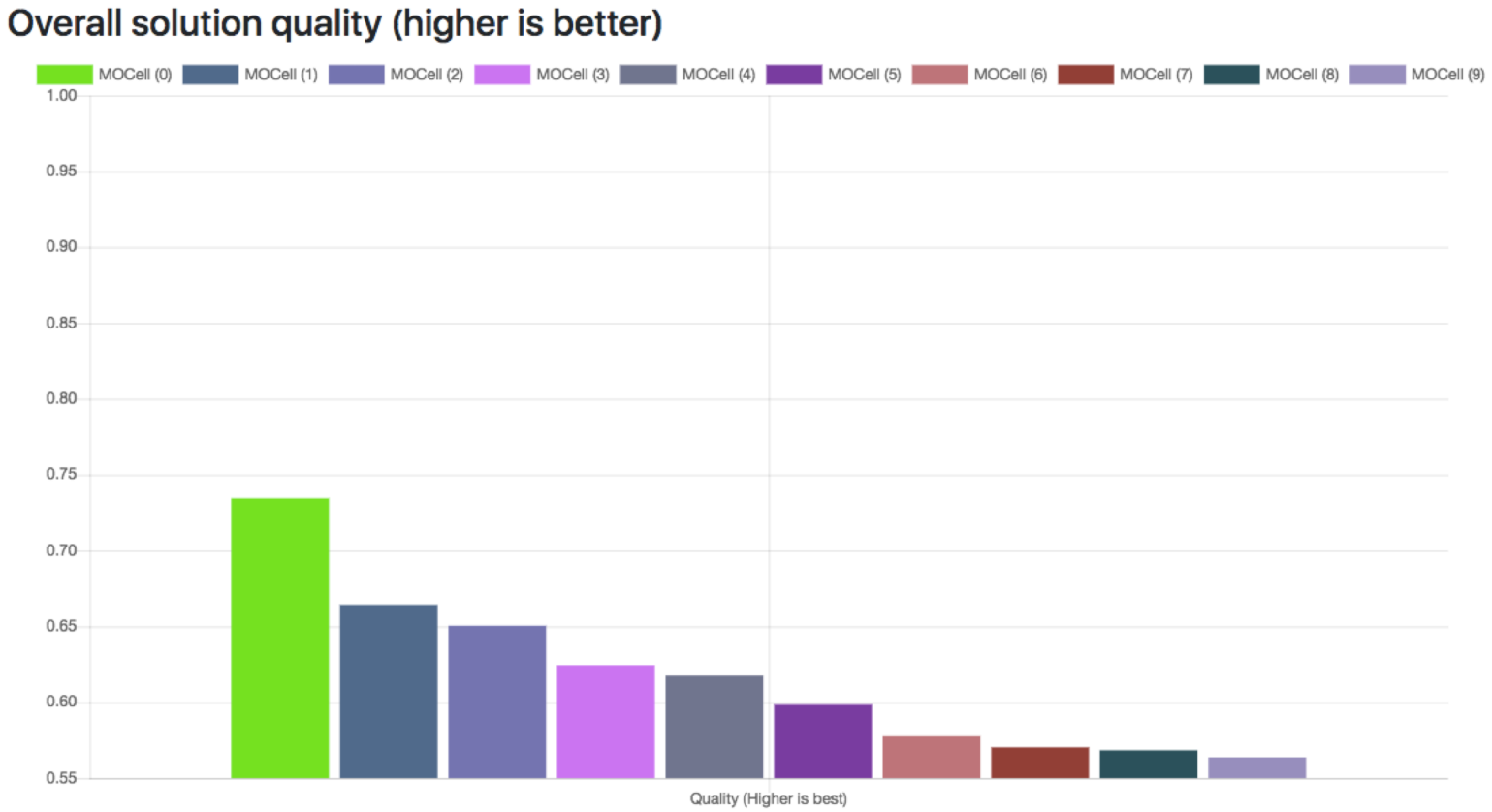


Gráfico da qualidade das soluções



Download dos ficheiros .pdf e .eps e as soluções de cada um dos algoritmos

Downloads

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Solutions

MOCell (1)

1.010111101E9 1.01010011E8 1001101.0 1.01111E9 1.0010011E8 1.1000101E9 1.010100111E9 1.101001E8 100011.0 1.000001101E9

MOCell (2)

1.1100111E8 1.10001E9 1.101000101E9 1.00101011E9 1.01110011E8 1.001010001E9 1.1100111E7 1.1101101E9 101011.0 1.000001101E9

MOCell (3)

110.0 1.10110001E9 1.010100111E9 1.0100011E7 1011100.0 101111.0 1001101.0 1.100111101E9 1.000110011E9 1.011010111E9

MOCell (4)

1.011101001E9 1.00011111E9 1.1100101E9 1.0010001E8 1.0010011E7 1.011000111E9 1111111.0 1.011111001E9 1.01111111E8 1.111E9

MOCell (5)

101001.0 1.0001011E8 1.00010011E9 1.10001111E8 10111.0 1.1101111E8 1.00011111E9 1111101.0 1.001110001E9 1.111001001E9

MOCell (6)

1.0E8 1.00101101E8 1.10011111E9 1.1110101E7 1.011E9 1.011101001E9 1.000101E7 1.001111101E9 1.001110011E9 1.00100111E9

Demonstração

http://www.polyplot.ml:8000/