

Spring School on Integrated Operational Problems

May 14-16, 2018, Troyes, France

Here is the procedure to follow in order to check your install before the Spring School on Integrated OP.

You should have received an `RPWS.zip` archive file containing an `RPWS` top directory with several other ones bellow.

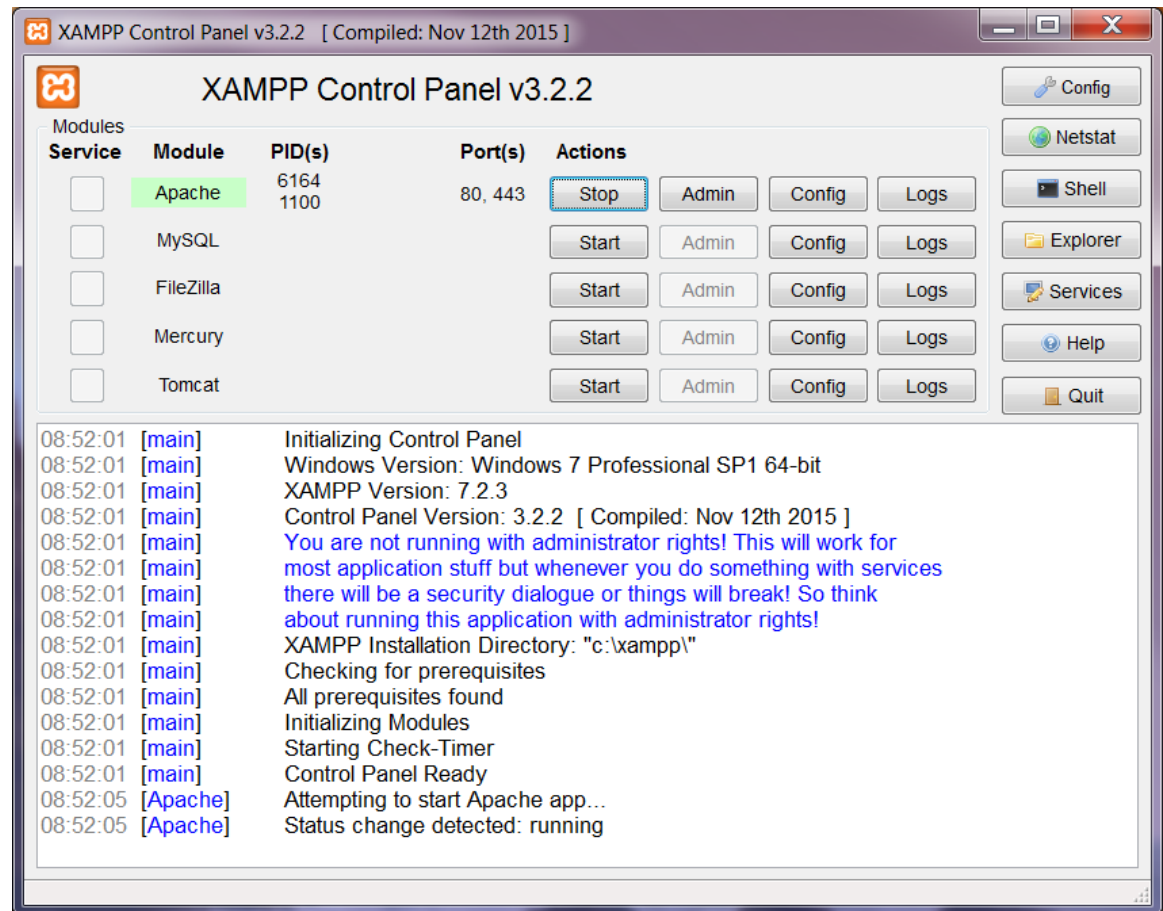
One of them is `RPWS\tutorials` and these slides can be found there, as many other presentations.

We assume that you have installed the required HTTP server and teh web-services on a PC running Windows.



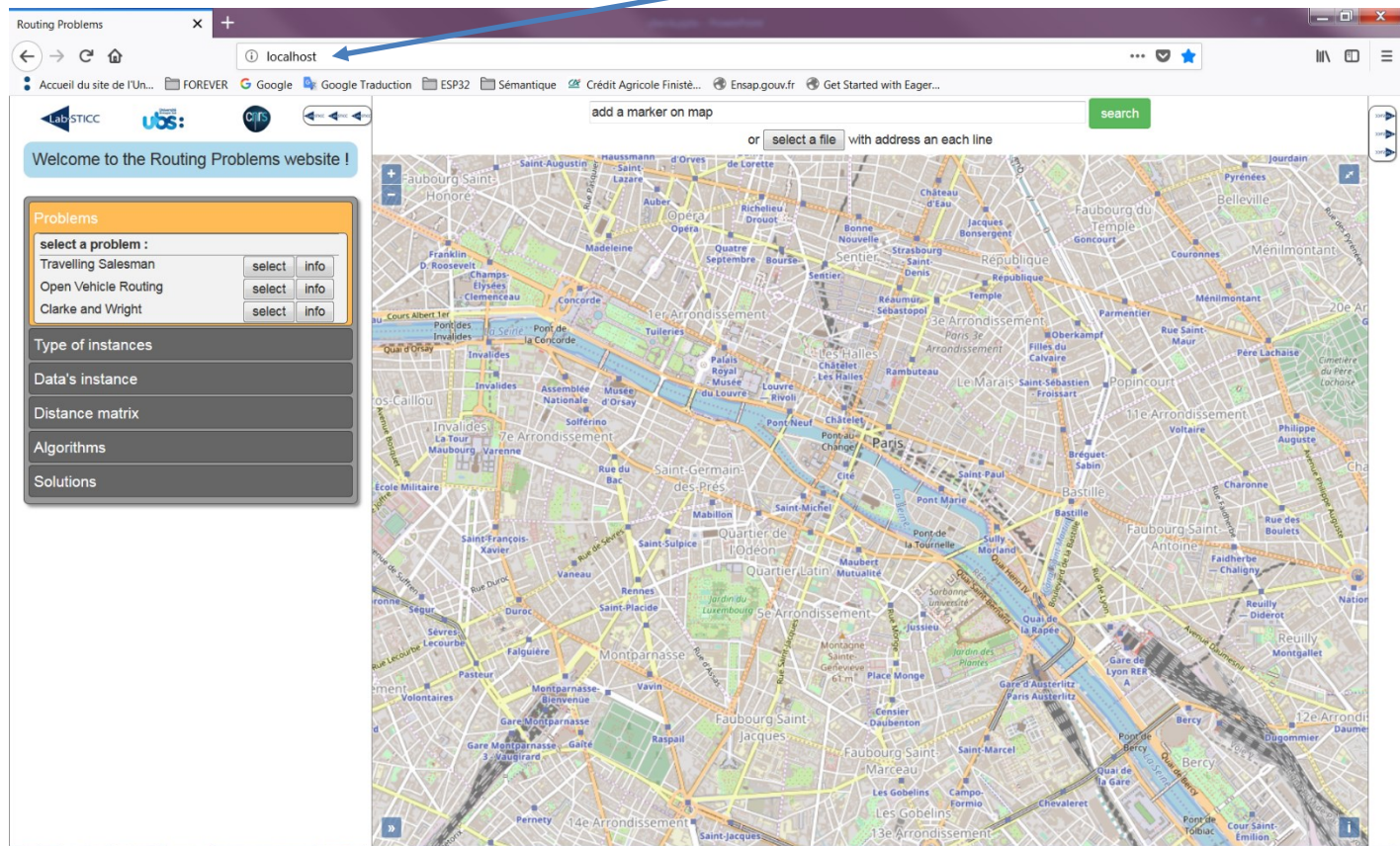
Web-services project check

Start the HTTP server



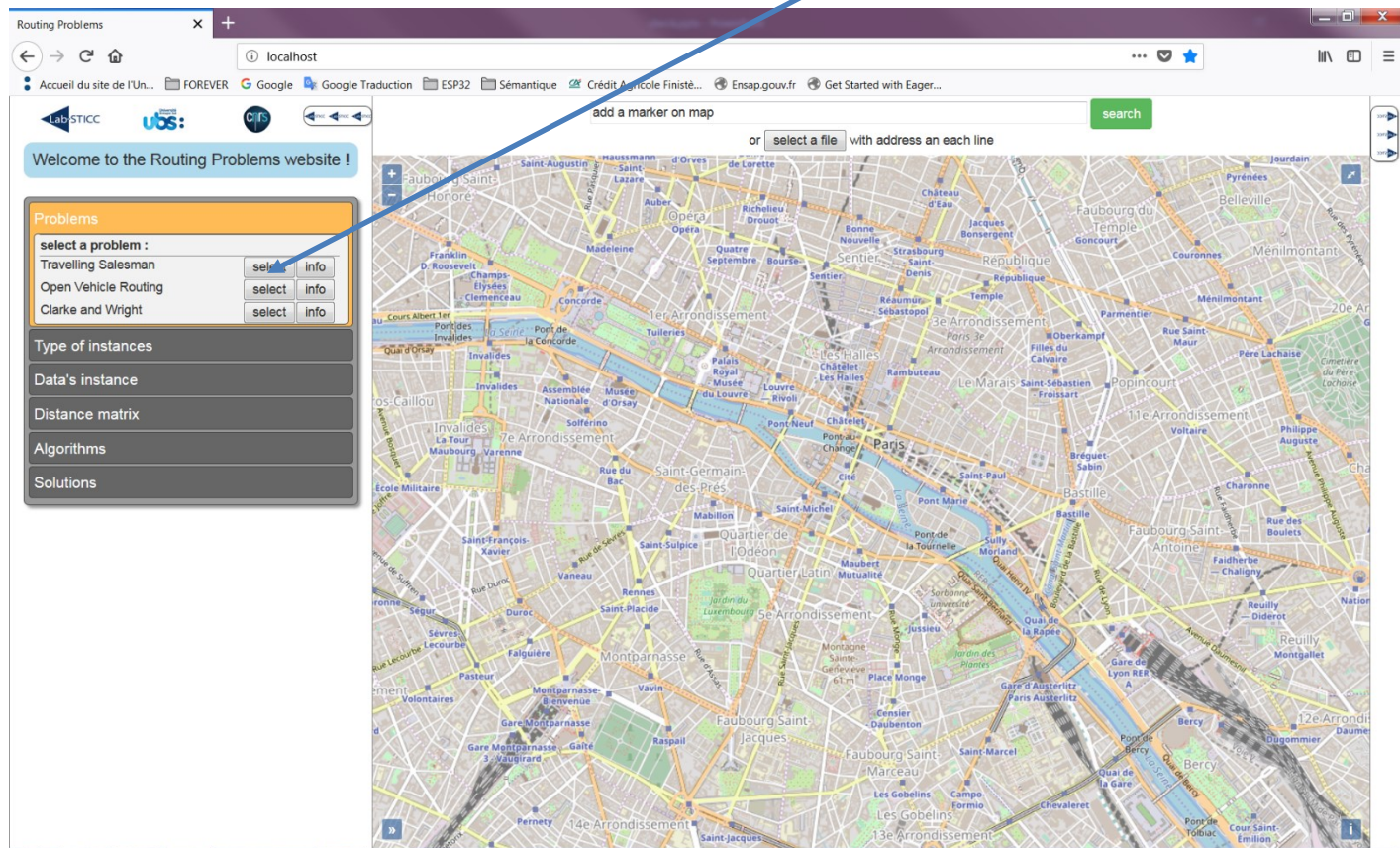
Web-services project check

Start a browser and enter « localhost » URL.



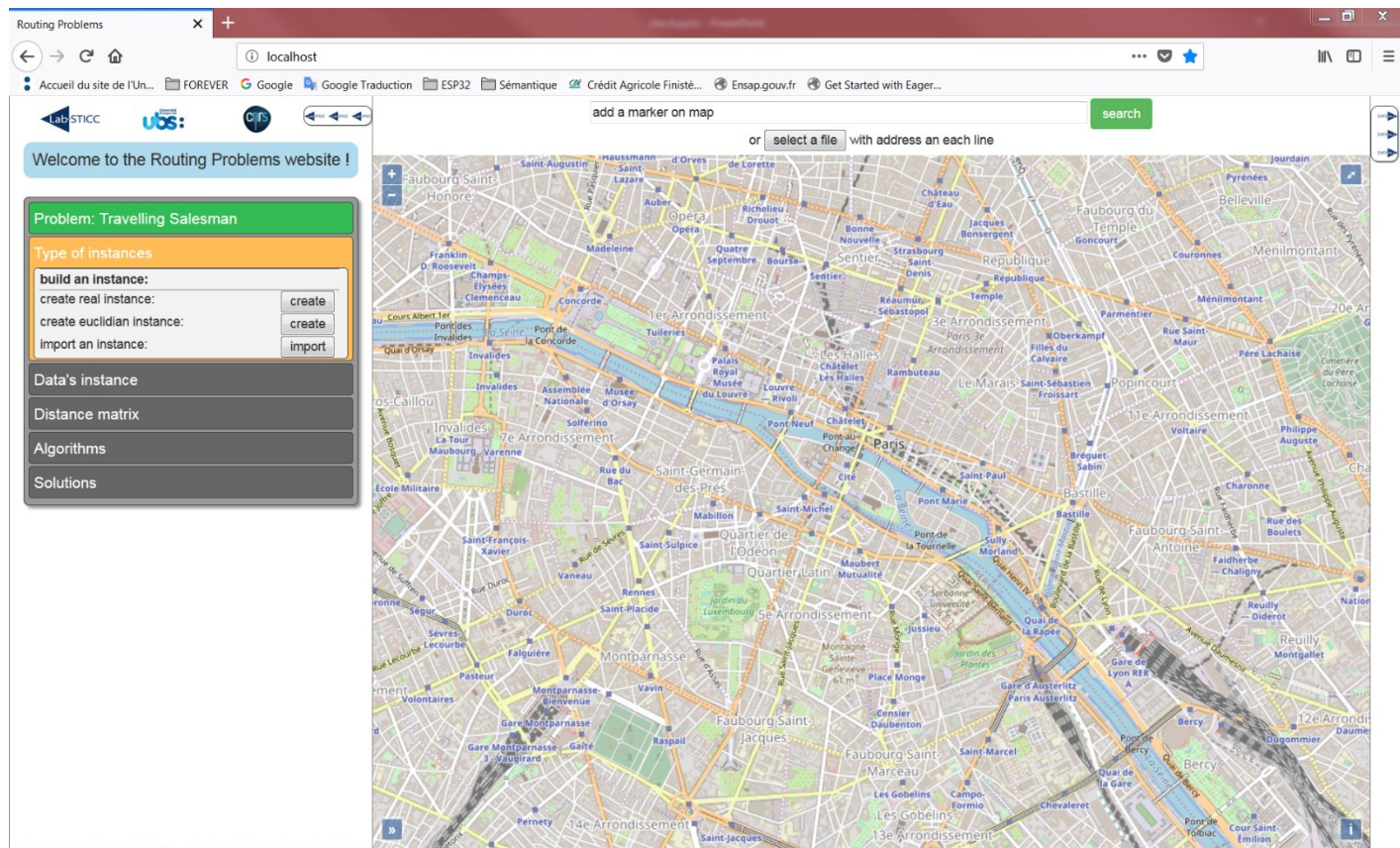
Web-services project check

Click on « select » for the Travelling Salesman problem.



Web-services project check

You should see this.



Web-services project check

Click on the map, and add a few GPS points.

The screenshot shows the 'Routing Problems' website interface. The browser window displays the site's URL as 'localhost'. The main content area features a map of Paris with several green dots representing GPS points. The sidebar on the left contains a 'Problem: Travelling Salesman' section with options to 'build an instance', 'create real instance', 'create euclidian instance', and 'import an instance'. The right panel shows 'Informations' (total nb. of points: 6, nb. of selected points: 6) and 'Actions' (load GPS from file, save as, display, save data to file). A table at the bottom right lists the coordinates of the selected points.

	Id	Lon.	Lat.	Del
✓	1	2.3376	48.8536	X
✓	2	2.3397	48.8633	X
✓	3	2.3539	48.8602	X
✓	4	2.3579	48.8453	X
✓	5	2.3464	48.8393	X
✓	6	2.3237	48.8482	X

Web-services project check

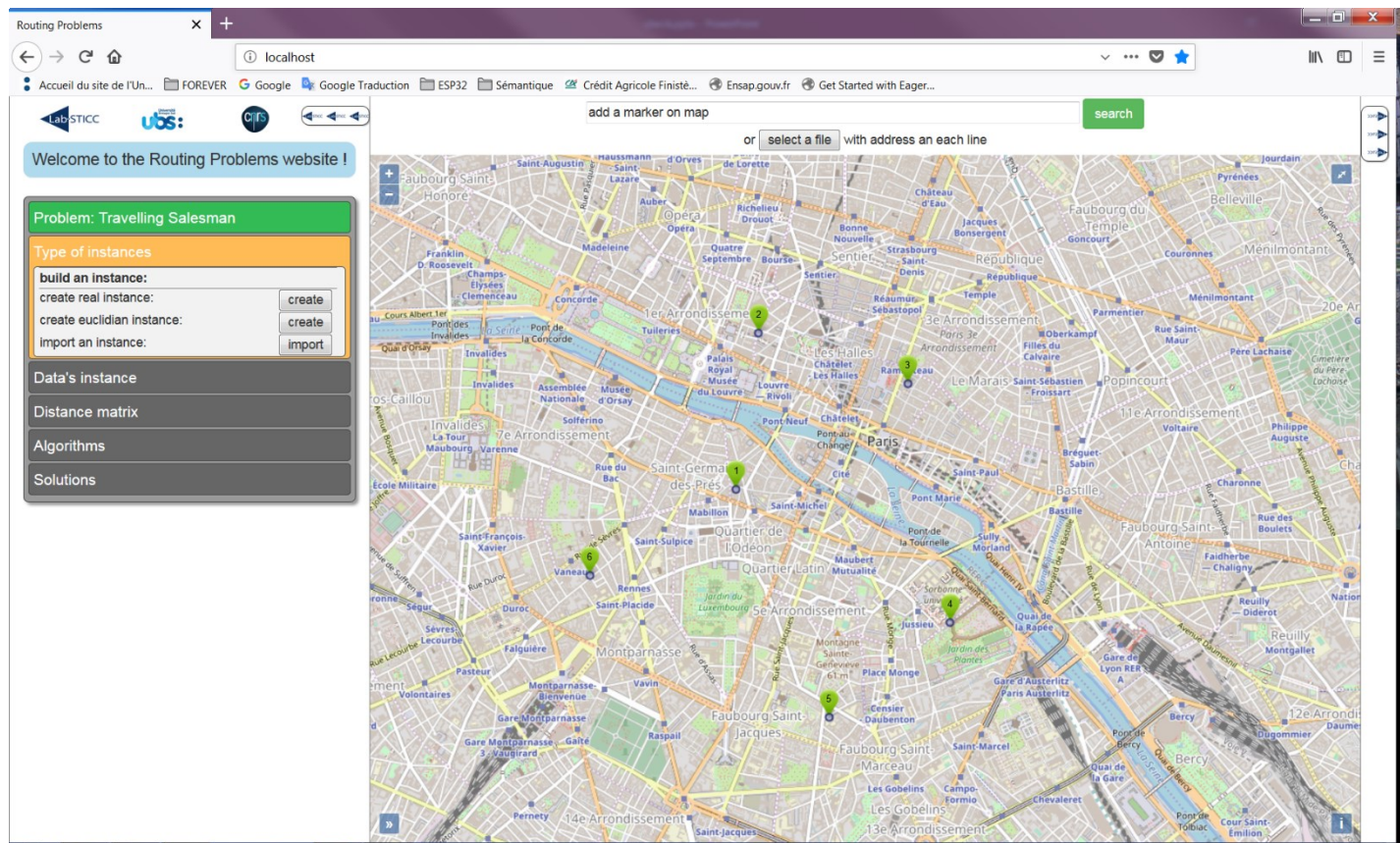
To hide the right list of points, click here.

The screenshot shows the Routing Problems website interface. On the left, there's a sidebar with a 'Problem: Travelling Salesman' section and options to 'build an instance', 'create real instance', 'create euclidian instance', and 'import an instance'. The main area displays a map of Paris with several points marked. On the right, there's a sidebar with 'Informations' and 'Actions' sections. The 'Informations' section shows 'total nb. of points: 6' and 'nb. of selected points: 6'. The 'Actions' section has buttons for 'load GPS from file', 'save as', 'display', and 'save data to file'. Below this is a table of points.

	Id	Lon.	Lat.	Del
<input checked="" type="checkbox"/>	1	2.3376	48.8536	X
<input checked="" type="checkbox"/>	2	2.3397	48.8633	X
<input checked="" type="checkbox"/>	3	2.3539	48.8602	X
<input checked="" type="checkbox"/>	4	2.3579	48.8453	X
<input checked="" type="checkbox"/>	5	2.3464	48.8393	X
<input checked="" type="checkbox"/>	6	2.3237	48.8482	X

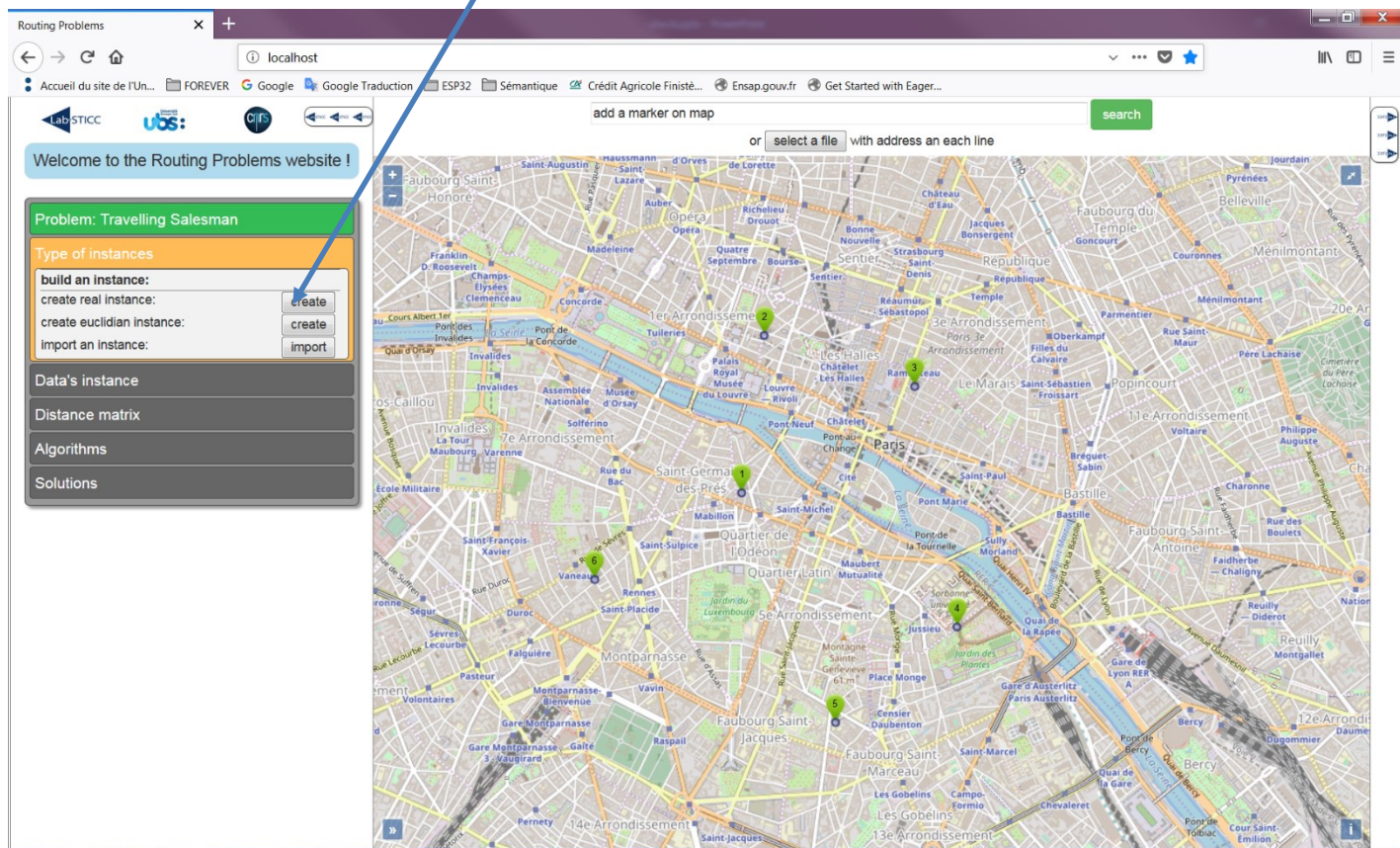
Web-services project check

You should see this.



Web-services project check

Click on « create real instance ».



Web-services project check

Click on « load points ».

The screenshot shows a web browser window with the URL `localhost/#`. The page title is "Routing Problems". The main content area displays a map of Paris with several green markers numbered 1 through 6. A sidebar on the left contains the following sections:

- Problem: Travelling Salesman**
- Real instance**
- Data's instance**
 - value of the courant instance: clients(list)
 - load GPS points from a file: **load** (highlighted by a blue arrow)
 - current selection: **load points**
 - display: on display in map cancel
 - Save Check
 - OK
- Distance matrix
- Algorithms
- Solutions

The map shows a detailed view of Paris, including the Seine river and various districts. The sidebar is on the left, and the map occupies the right two-thirds of the screen.

Web-services project check

Click on « OK ».

The screenshot shows a web browser window with the URL `localhost/#`. The page title is "Routing Problems". The main content area displays a map of Paris with several green markers numbered 1 through 6. A sidebar on the left contains the following sections:

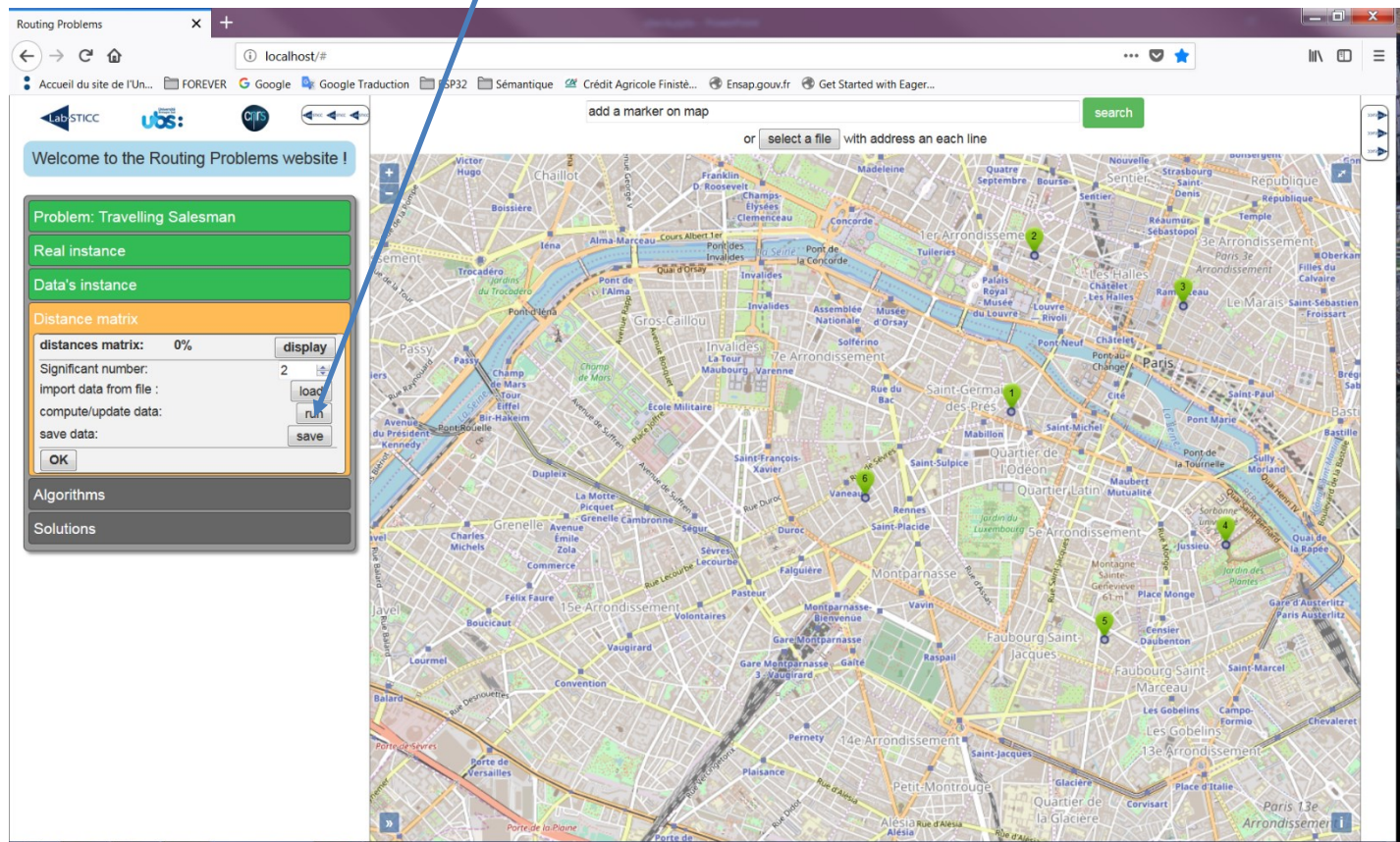
- Welcome to the Routing Problems website !**
- Problem: Travelling Salesman**
- Real instance**
- Data's instance**
 - value of the courant instance: clients(list)
 - load GPS points from a file: load
 - current selection: load points
 - display:
 - Table with 2 columns: Lon, Lat
 -
- Distance matrix**
- Algorithms**
- Solutions**

The table in the sidebar contains the following data:

Lon	Lat
2.3375	48.853
2.3397	48.863
2.3538	48.860
2.3579	48.845
2.3444	48.839
2.3236	48.848

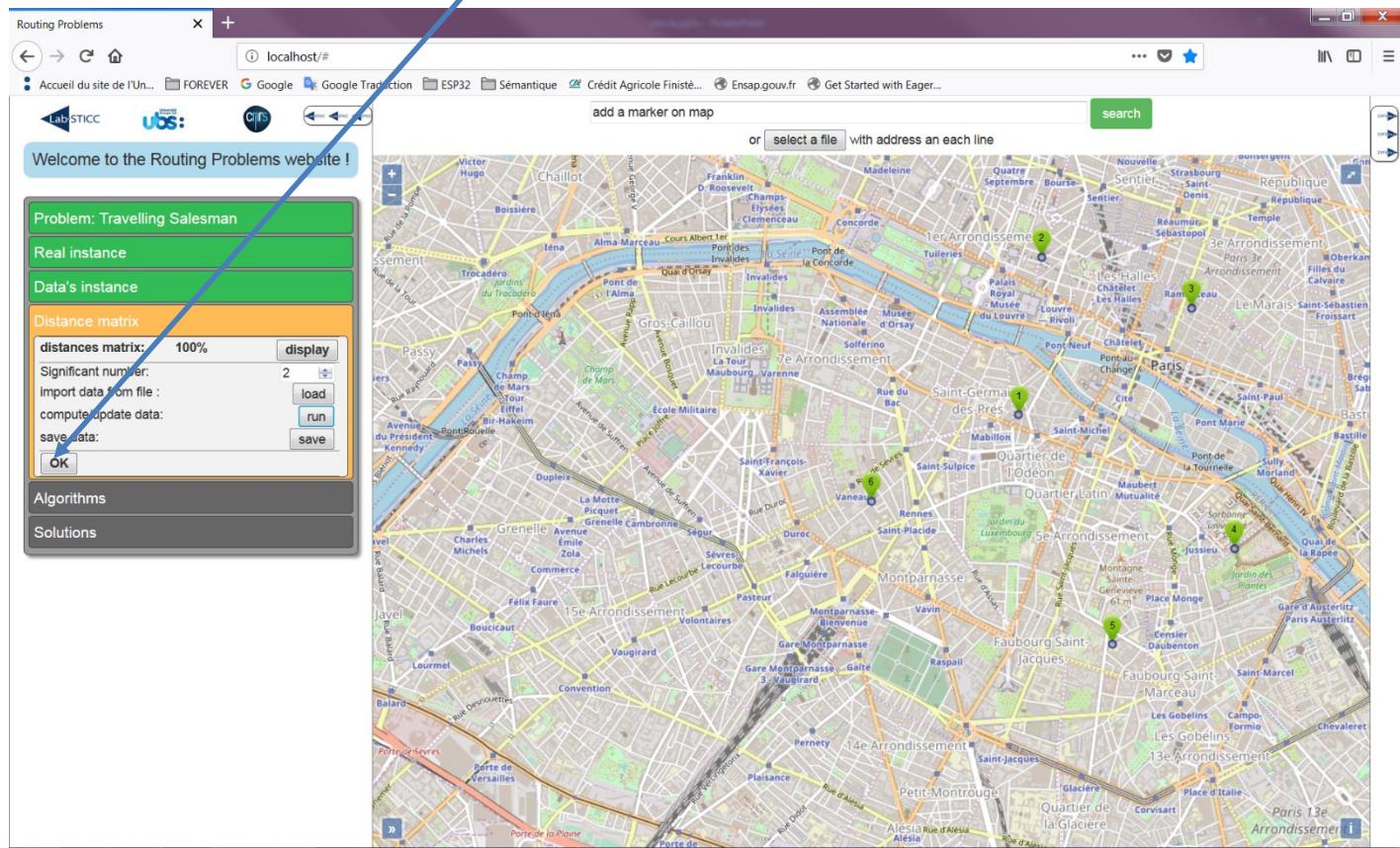
Web-services project check

Click on « run ».



Web-services project check

Click on « OK ».



Web-services project check

Click on « GRASPxELS ». You should see a red path.

The screenshot shows the 'Routing Problems' website interface. On the left, there is a sidebar with a 'Welcome to the Routing Problems website !' message. Below this, there are sections for 'Problem: Travelling Salesman', 'Real instance', 'Data's instance', 'Distance matrix', and 'Algorithms'. The 'Algorithms' section contains a table with columns: name, time, rank, exact, exec., and info. The 'GRASPxELS' algorithm is selected, and its results are displayed below the table. On the right, a map of Paris is shown with a red path highlighted. A blue arrow points from the text 'Click on « GRASPxELS »' to the 'GRASPxELS' button in the 'Algorithms' section.

Problem: Travelling Salesman

Real instance

Data's instance

Distance matrix

Algorithms

select an algorithm:	name	time	rank	exact	exec.	info
	Init	<1s	0	no	RUN	?
	GRASPxELS	<10s	1	no	RUN	?

Results:

GRASPxELS	0:00:00	cost(13760)	OK
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Solution from GRASPxELS (1)

trips: ALL ▾ 250 0 0 0.7 display

Properties:

cost	13760
duree	3871.1
runPos	0
success	true
verif	13760

Web-services project check

If all is well installed you should have obtained something similar to the previous slides.

If not, call me ☺

I'll be at lab today, and tomorrow, but away next week.

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