

Esecuzione dell'algoritmo PageRank

```
load mathwork200.mat;  
[R, OUT, IN] = PageRank(G);
```

Grafico a barre page rank

```
figure(1)  
bar(R);  
title('Ranking delle pagine');  
xlabel('Pagine')  
ylabel('Percentuale di tempo di navigazione')
```

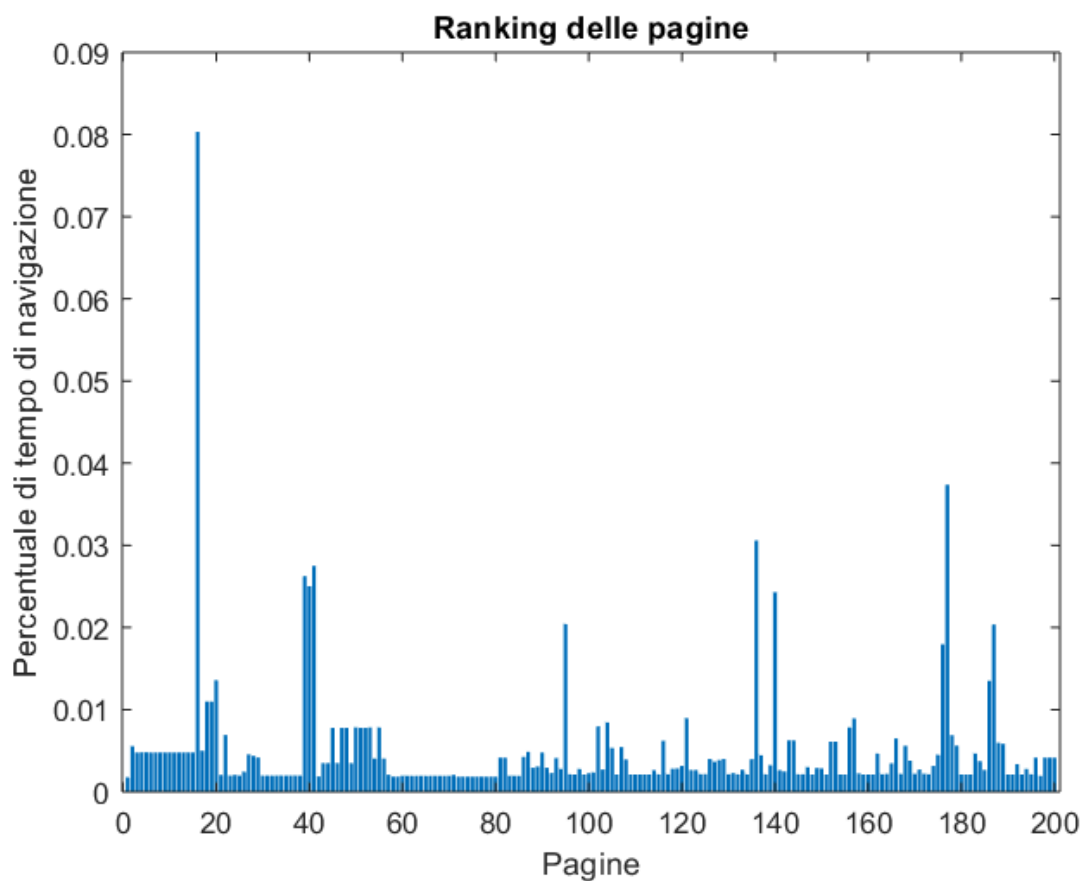
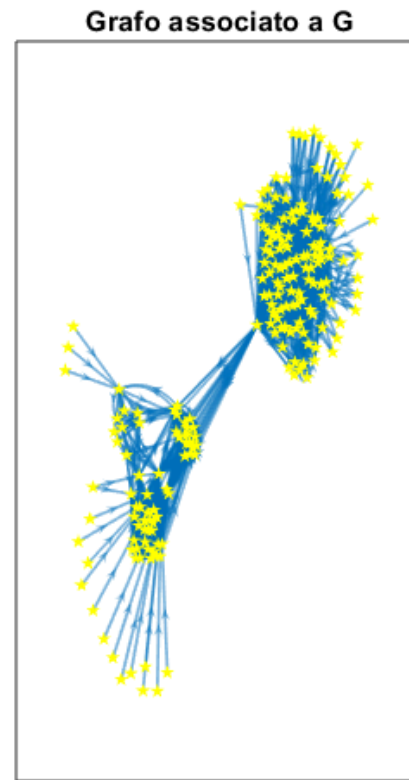
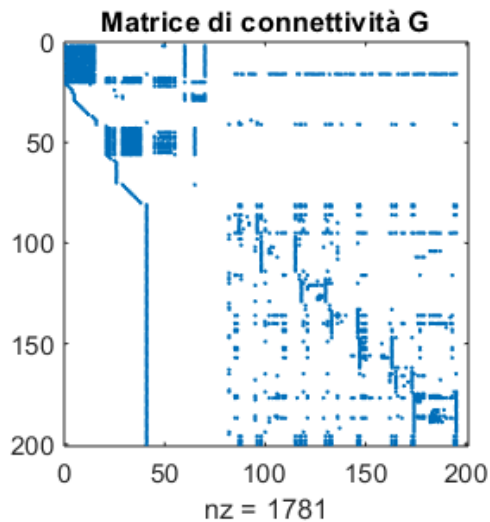


Grafico struttura G e grafo associato

```
figure(2)  
subplot(1,2,1)  
G=G.*~speye(size(G,1));  
spy(G);  
title('Matrice di connettività G');  
subplot(1,2,2)
```

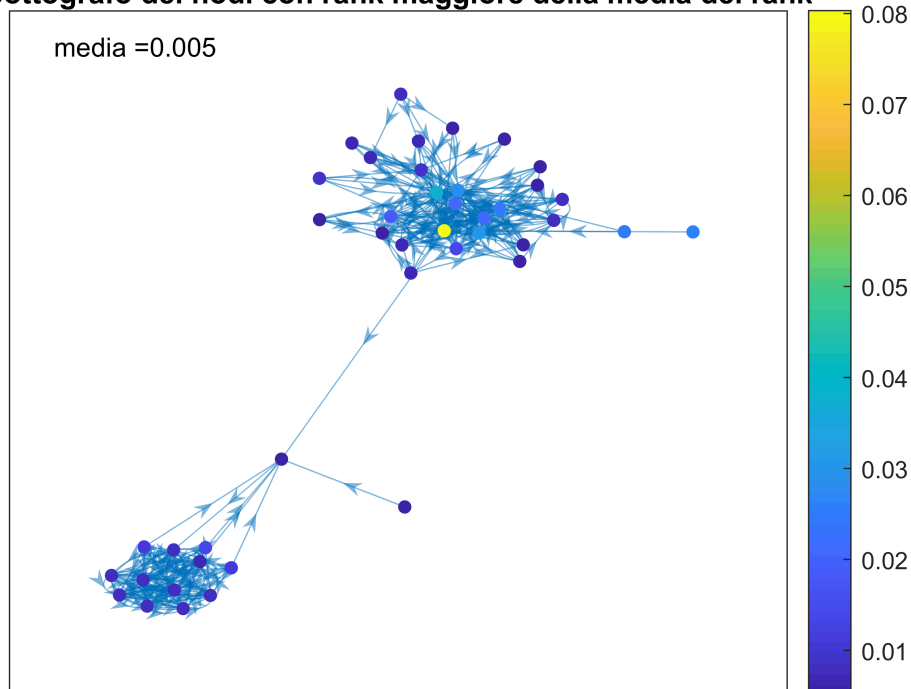
```
ff=digraph(G,'OmitSelfLoops');
plot(ff,'NodeColor','y','LineWidth',1,'Marker','p','MarkerSize',2,'layout','force');
title('Grafo associato a G');
```



Sottografo nodi rank > media rank

```
G1=digraph(G,'OmitSelfLoops');
G1.Nodes.Name=U;
G1.Nodes.Rank=R;
H=subgraph(G1,find(G1.Nodes.Rank > mean(R)));
figure(3)
plot(H,'NodeLabel',{},'NodeCData',H.Nodes.Rank,'Layout','force');
text(-2,3.3,['media =',num2str(mean(R))]);
title("Sottografo dei nodi con rank maggiore della media dei rank");
colorbar
```

Sottografo dei nodi con rank maggiore della media dei rank



Stampa dei primi 15 risultati per ranking con outdegree e indegree

```
[R ,index]=sort(R,'descend');
TOP15 = table(R(1:15),OUT(index(1:15)),IN(index(1:15)),'Rownames',U(index(1:15)),'Vari
```

TOP15 = 15x3 table

	Ranking	OUT	IN
1 http://schema.org	0.080318755...	3	91
2 http://schema.org/CreativeWork	0.037379505...	14	43
3 http://schema.org/Offer	0.030588773...	14	31
4 http://blog.schema.org	0.027485286...	122	22
5 http://schema.org/docs/about...	0.026260606...	0	2
6 http://github.com/schemaorg/...	0.025031895...	0	4
7 http://schema.org/image	0.024281842...	2	39
8 http://schema.org/Person	0.020427320...	14	48
9 http://schema.org/Organization	0.020365569...	10	33
10 http://schema.org/Event	0.017961383...	12	27

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