1. اثبات اینکه NP-complete یا NP-Hard هست.
2. فرمولی برای congestion پیدا کنم. یا اثبات کنم 1/(c-l) درست است.
3. اثبات کنم که درست است برای کم کردن response time از congestion استفاده کنم.
4. روند performance evaluation رو برم ببینم چه مدل صفی میخوام استفاده کنم. ورودی ها و خروجی ها چطور هستند و برای کدوم مدل شبکه، مدل بهینه سازی ای که نوشتم درست کار می کند.
5. آنالیز کردن ترافیک های وب، چند نوع ترافیک وجود دارد؟ هر کدام به چه چیزهایی نیاز دارند.

* (مثل url categories)
* The TOS field contains:

P Precedence subfield, also known as the Class of Service (COS) sub-field, which is a 3-bit field

Type of Service (TOS) subfield, which is a 4-bit field

Unused bit that is set to zero

* The applications and protocols that can be classified by PacketWise 9.2 are grouped into the following service groups:[[1]](#footnote-1)

[ClientServer](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#client): Client/Server applications   
[Collaboration](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#collaboration): Software tools for facilitating communication between remote groups   
[ContentDelivery](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#content): Applications that push/deliver content   
[DatabaseERP](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#database): Database and Enterprise Resource Planning applications   
[DirectoryServices](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#directory): Applications that provides access to directory services  
[Email](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#email): Email-related protocols   
[FileServices](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#file): File system applications   
[Games](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#games): Online-enabled games   
[Healthcare](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#health): Healthcare-related applications   
[Internet](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#internet): Internet infrastructure protocols   
[Legacy](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#nonip): Legacy protocols   
[Messaging](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#messaging): Online instant messaging services   
[Middleware](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#middleware): Applications that function at an intermediate layer   
[Multimedia](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#multimedia): Applications that deliver audio, video and graphics   
[NetworkMgmt](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#network): Protocols used to manage networks   
[NonIPv4](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#nonipv4): Non-IP version 4 protocols   
[P2P](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#p2p): Peer-to-Peer file sharing applications   
[Print](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#print): Network printing protocols   
[RemoteAccess](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#remote): Applications to access remote hosts   
[Routing](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#routing): Internet routing/switching protocols   
[Security](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#security): Protocols that provide security for network   
[SocialNetwork](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#social): Social network services   
[VoIP](https://bto.bluecoat.com/packetguide/9.2/reference/services.htm#voip): Voice/video over IP

* http or https 80/443

1. Data set پیدا کنم برای تست کردن الگوریتم خودم.
2. بنا بر مرجعی بگم زمان الگوریتم بهینه سازی خوبه یا بده؟
3. sensivity analysis برای بررسی خروجی ها و ضریب ها و thresholdها.
4. آیا نیاز است الگوریتم من درخواستی را drop کند؟ برای اینکه در شبکه congestion پیش نیاید؟ مثلا میشه threshold در نظر گرفت.
5. آیا نیاز است از الگوریتمهایی مانند aging برای learn کردن شبکه استفاده کنم و load درخواست بعدی را حدس بزنم یا خیر؟ بعد تصمیم بگیرم Multi-path باشد یا مثل الان single-path باشد؟

1. https://bto.bluecoat.com/packetguide/9.2/reference/services.htm [↑](#footnote-ref-1)