Fundamentals of Computer Networks

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Course Presentation

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$ git clone https://github.com/pdmjr/network_course.git
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- B.Sc. in Computer Sciences, UFPB 2002
- M.Sc. in Systems and Computer Engr., UFRJ 2005
- D.Sc. in Computer Sciences, UFCG 2013
- Postdoc researcher, UFSCar-Sorocaba, 2018–2019
- Titular Professor at IFPB, Computer Networks and Electrical Engineering courses
- Postgraduate programs in Electrical Engineering (PPGEE) and Information Technology (PPGTI)

Material

- Video content, scientific papers, and tutorials
- Books: main textbook[1], second textbook[2], reference material[3], modern networking[4], and advanced approach[5]

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[1]L.L. Peterson and B.S. Davie. *Computer Networks: A Systems Approach.* The Morgan Kaufmann Series in Networking. Elsevier Science, 2021. ISBN: 9780128182000. URL: https://book.systemsapproach.org/.

[2]J.F. Kurose and K.W. Ross. *Computer Networking: A Top-down Approach.* Pearson, 2022. ISBN: 9781292405469. URL: https://gaia.cs.umass.edu/kurose_ross/index.php.

[3]A.S. Tanenbaum, N. Feamster, and D.J. Wetherall. *Computer Networks, Global Edition.* Pearson Education, 2021. ISBN: 9781292374017. URL: https://books.google.com.br/books?id=nT4QEAAAQBAJ.

[4]W. Stallings. *Foundations of Modern Networking: SDN, NFV, QoE, IoT, and Cloud.* Pearson Education, 2015. ISBN: 9780134176024. URL: https://books.google.com.br/books?id=nL_QCgAAQBAJ.

[5]L. Peterson, C. Cascone, and B. Davie. *Software-Defined Networks: A Systems Approach.* Systems Approach LLC, 2021. ISBN: 9781736472101. URL: https://sdn.systemsapproach.org/.

Methodology: each student can skip 25% of the activities

- Mini-test activities (first half hour of a pre-determined class)
- Individual and group activities
- NetAcad training
- Final project

Classes:

- Weekly meetings every Wednesday at 1pm
- Extra hours for possible replacement classes

Communication:

- Google Classroom
- paulo.maciel@ifpb.edu.br

Required:

- Constant attendance in classes
- Proactive behavior
- "Show me the code!"

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