**NETWORKING FOR BIG DATA**
**Bibliographic references – A.Y. 2024/2025**

| # | REFERENCE | TOPIC |
|---|---|---|
| 1 | *Cloud services, networking, and management*<br>N. da Fonseca and R. Boutaba (Eds.)<br>IEEE press, 2015. | A general introduction to cloud computing and Data Center networking: Chapters 1 (Cloud Computing), 4 (Data Center networks). |
| 2 | *Data Center Networks Topologies, Architectures and Fault-Tolerance Characteristics*<br>*Yang Liu et alii*<br>Springer, 2013 | Covers an introduction to Data Center networking and the topic of topological design. |
| 3 | *Designing Low-Complexity Heavy-Traffic Delay-Optimal Load Balancing Schemes: Theory to Algorithms*<br>XINGYU ZHOU, JIAN TAN, YIN SUN, NESS SHROFF<br>Proceedings of the ACM on Measurement and Analysis of Computing Systems, December 2017.<br><br>Chapter 6 of A. Baiocchi, "Network Traffic Engineering – Stochastic models and applications", Wiley, 2020. | Covers the scheduling and load balancing policies topic [omit all proofs]. |
| 4 | *Data Center Transport Mechanisms: Congestion Control Theory and IEEE Standardization*<br>Mohammad Alizadeh, Berk Atikoglu, Abdul Kabbani, Ashvin Lakshmikantha, Rong Pan Balaji Prabhakar, and Mick Seaman<br>Forty-Sixth Annual Allerton Conference Allerton House, UIUC, Illinois, USA September 23-26, 2008. | Covers the congestion control topic, specifically QCN in Ethernet networks (Secs. I, II). |
| 5 | *Data Center TCP (DCTCP)*<br>Mohammad Alizadeh et alii<br>ACM SIGCOMM'10, August 30–September 3, 2010, New Delhi, India. | Covers the congestion control topic, specifically TCP re-design for Data Centers. |