

UNIVERSITY OF SOUTHERN CALIFORNIA  
COMPUTER ENGINEERING  
SCREENING EXAMINATION

**EE 542**  
**INTERNET AND CLOUD COMPUTING**

SUGGESTED READING

1. D. Clark, "The design philosophy of the DARPA Internet protocols," ACM SIGCOMM Computer Communication Review, vol. 18, no. 4, pp. 106–114, 1988. <http://nms.lcs.mit.edu/6.829-f02/darpa-internet.pdf>
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4. M. Mathis and J. Mahdavi, "Forward acknowledgement: Refining TCP congestion control," in ACM SIGCOMM Computer Communication Review, 1996, vol. 26, pp. 281–291. <http://conferences.sigcomm.org/sigcomm/1996/papers/mathis.pdf>
5. Langley, A. et al., "The QUIC Transport Protocol: Design and Internet-Scale Deployment." In Proceedings of the Conference of the ACM Special Interest Group on Data Communication (ACM SIGCOMM '17), New York, NY, USA, 183-196, 2017. [https://rjshade.com/work/files/papers/pdf/langley\\_et\\_al\\_sigcomm2017\\_quic.pdf](https://rjshade.com/work/files/papers/pdf/langley_et_al_sigcomm2017_quic.pdf)
6. McKeown, N. et al, "OpenFlow: enabling innovation in campus networks", ACM SIGCOMM Computer Communication Review, vol. 38, New York, NY, April 2008. <http://ccr.sigcomm.org/online/files/p69-v38n2n-mckeown.pdf>

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8. Michael Blackstock and Rodger Lea. 2014. Toward a Distributed Data Flow Platform for the Web of Things (Distributed Node-RED). In *Proceedings of the 5th International Workshop on Web of Things (WoT '14)*. ACM, New York, NY, USA, 34-39.  
[https://webofthings.org/wpcontent/uploads/2009/07/wot20140\\_submission\\_1.pdf](https://webofthings.org/wpcontent/uploads/2009/07/wot20140_submission_1.pdf)
9. Chengjie Zhang, Affan Syed, Young H. Cho, and John Heidemann. "Steam-Powered Sensing." In *Proceedings of the 9th ACM SenSys Conference*, p. 204-217. Seattle, Washington, USA, ACM, November, 2011. <https://www.isi.edu/~johnh/PAPERS/Zhang11a.pdf>
10. KR Jackson et. al, Performance analysis of high performance computing applications on the amazon web services cloud, *Conference on Cloud 2010*. [http://hostel.ufabc.edu.br/~cak/inf103-2013/performance\\_analysis\\_high\\_performance\\_computing\\_applications\\_amazon\\_web\\_services\\_cloud\\_cloudcom-2010.pdf](http://hostel.ufabc.edu.br/~cak/inf103-2013/performance_analysis_high_performance_computing_applications_amazon_web_services_cloud_cloudcom-2010.pdf)
11. Y. Le et al., "UNO: Uniflying host and smart NIC offload for flexible packet processing," in *Proceedings of the 2017 Symposium on Cloud Computing*, 2017, pp. 506–519.
12. L Gu, H Li, "Memory or time: Performance evaluation for iterative operation on hadoop and spark," 2013 IEEE 10th International Conference on High Performance Computing and Communications & 2013 IEEE International Conference on Embedded and Ubiquitous Computing, Zhangjiajie, China, June 2013.
13. S Cherian, T Ingale, RSN Venkata, "Methods and systems to achieve multi-tenancy in RDMA over converged Ethernet," US Patent 9,747,249, 2017.
14. Y.T. Chen, J. Cong, Z. Fang, J. Lei, and P. Wei, "When Spark Meets FPGAs: A Case Study for Next-Generation DNA Sequencing Acceleration," 2016.
15. X. Lu, M. W. U. Rahman, N. Islam, D. Shankar, and D. K. Panda, "Accelerating spark with rdma for big data processing: Early experiences," in *2014 IEEE 22nd Annual Symposium on High-Performance Interconnects*, 2014, pp. 9–16.
16. S. Cirani, G. Ferrari, N. Iotti, and M. Picone, "The IoT hub: A fog node for seamless management of heterogeneous connected smart objects," in *2015 12th Annual IEEE International Conference on*

Sensing, Communication, and Networking-Workshops (SECON Workshops), 2015, pp. 1–6.

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Please be aware that these references are for guidance in BASIC knowledge. Ph.D. candidates are screened on the basis of talent, course knowledge, independent reading and experience.

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