(Information, Computer, [Wireless] Network, whatever your degree program calls this class) security (Nicola Laurenti)

Proposals for the literary review essay, 2017–18

Below you find a few possible topics for your literary review essay, together with a starting list of bibliographic references. The final title of your essay may be more focused on particular aspects, as some of the topics are too broad and general to be treated thoroughly. Similarly, the starting reference list should only be viewed as a suggested introduction to the topic, you are not required to follow it strictly, and it may be necessary for you to expand it.

Topic	Anonymity measures
Prime reference	K. Chatzikokolakis, C. Palamidessi, and P. Panangaden, "Anonymity protocols as noisy channels," <i>Information and Computation</i> , vol. 206, n. 2–4, pp. 378–401, February 2008. http://linkinghub.elsevier.com/retrieve/pii/S0890540107001241
Starting references	D. Rebollo-Monedero, J. Parra-Arnau, C. Diaz, and J. Forné, "On the Measurement of Privacy as an Attacker's Estimation Error," <i>ArXiv</i> , article ID 1111.3567, 15 November 2011. http://arxiv.org/abs/1111.3567
	M. S. Alvim, K. Chatzikokolakis, P. Degano, and C. Palamidessi, "Differential Privacy versus Quantitative Information Flow," <i>ArXiv</i> , article ID 1012.4250, 20 December 2010. http://arxiv.org/abs/1012.4250
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	W. Wang, L. Ying, and J. Zhang, "On the Relation Between Identifiability, Differential Privacy and Mutual-Information Privacy," <i>ArXiv</i> , article ID 1402.3757, 10 February 2014. http://arxiv.org/abs/1402.3757

Topic	Blockchains beyond Bitcoin
Prime reference	K. Christidis and M. Devetsikiotis, "Blockchains and Smart Contracts for the Internet of Things," <i>IEEE Access</i> , vol. 4, n. 1, pp. 2292–2303, May 2016. 7467408
Starting references	F. Buccafurri, G. Lax, S. Nicolazzo, and A. Nocera, "Overcoming Limits of Blockchain for IoT Applications," Proceedings of the 12th International Conference on Availability, Reliability and Security, ARES '17, 29 August – 1 September 2017, pp. 1–6. http://dl.acm.org/citation.cfm?id=3098954.3098983
	A. Gervais, G. O. Karame, K. Wst, V. Glykantzis, H. Ritzdorf, and S. Capkun, "On the Security and Performance of Proof of Work Blockchains," <i>Proceedings of the 2016 ACM SIGSAC Conference on Computer and Communications Security - CCS'16</i> , 24–28 October 2016, pp. 3–16. http://dl.acm.org/citation.cfm?id=2976749.2978341
	M. Conoscenti, A. Vetro, and J. C. De Martin, "Blockchain for the Internet of Things: A systematic literature review," 2016 IEEE/ACS 13th International Conference of Computer Systems and Applications (AICCSA)'16, 29 November – 2 December 2016, pp. 1–6. http://ieeexplore.ieee.org/document/7945805
	A. Kosba, A. Miller, E. Shi, Z. Wen, and C. Papamanthou, "Hawk: The Blockchain Model of Cryptography and Privacy-Preserving Smart Contracts," 2016 IEEE Symposium on Security and Privacy, SP '16, 22-26 May 2016, pp. 839-858. http://ieeexplore.ieee.org/document/7546538
	G. Zyskind, O. Nathan, and A. Sandy Pentland, "Decentralizing Privacy: Using Blockchain to Protect Personal Data," 2015 IEEE Security and Privacy Workshops, SPW '15, 21-22 May 2015, pp. 180-184. http://ieeexplore.ieee.org/document/7163223

Topic	Efficient authentication in sensor networks
Prime reference	L. Buttyan and J. Hubaux, Security and cooperation in wireless networks. Thwarting malicious and selfish behavior in the age of ubiquitous computing, Cambridge University Press, 2007, Cap. 5. http://secowinet.epfl.ch/
Starting references	A. Perrig, R. Canetti, J. Tygar, and D. Song, "Efficient authentication and signing of multicast streams over lossy channels," <i>IEEE Symposium on Security and Privacy. S&P 2000</i> , pp. 56–73. http://ieeexplore.ieee.org/document/8484446
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Topic	Composable security
Prime reference	R. Canetti, "Universally composable security: a new paradigm for cryptographic protocols," <i>IEEE International Conference on Cluster Computing, SFCS'01</i> , 8–11 October 2001, pp. 136–145. http://ieeexplore.ieee.org/document/959888
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Topic	Covert channels
Prime reference	S. Wendzel, S. Zander, B. Fechner, and C. Herdin, "Pattern-Based Survey and Categorization of Network Covert Channel Techniques," <i>ACM Computing Surveys</i> , vol. 47, n. 3, pp. 1–26, April 2015. http://dl.acm.org/citation.cfm?id=2737799.2684195
Starting references	I.S. Moskowitz, R.E. Newman, D.P. Crepeau, A.R. Miller, "Covert channels and anonymizing networks," ACM Workshop on Privacy in the Electronic Society, WPES 2003, pp. 79–88. http://dl.acm.org/citation.cfm?id=1005140.1005153
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Topic	Cryptanalysis of DES
Prime reference	W. Diffie and M.E. Hellman, "Exhaustive Cryptanalysis of the NBS Data Encryption Standard," Computer, vol. 10, n. 6, pp. 74-84, June 1977. http://ieeexplore.ieee.org/document/1646525
Starting references	E. Biham and A. Shamir, "Differential Cryptanalysis of the Full 16-round DES," Advances in Cryptology, EUROCRYPT 1993, pp. 487-496. http://dsns.csie.nctu.edu.tw/research/crypto/HTML/PDF/C92/487.PDF
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Topic	Distance bounding protocols
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Starting references	E. Pagnin, G. Hancke, and A. Mitrokotsa, "Using Distance-Bounding Protocols to Securely Verify the Proximity of Two-Hop Neighbours," <i>IEEE Communications Letters</i> , vol. 19, n. 7, pp. 1173–1176, July 2015. http://ieeexplore.ieee.org/document/7109841
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Topic	Information theoretic model of authentication
Prime reference	U.M. Maurer, "Authentication Theory and Hypothesis Testing," <i>IEEE Transactions on Information Theory</i> , vol. 46, n. 4, pp. 1350-1356, July 2000. http://ieeexplore.ieee.org/document/850674
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Topic	Intrusion detection in wireless networks
Prime reference	T. Anantvalee, J. Wu, "A Survey on Intrusion Detection in Mobile Ad Hoc Networks," Wireless Network Security, Y. Xiao, X. Shen, D. Du eds., Boston, MA: Springer US, 2007, pp. 159–180. http://www.springerlink.com/index/10.1007/978-0-387-33112-6
Starting references	B. Sun, Y. Xiao, and K. Wu, "Intrusion detection in cellular mobile networks," Wireless Network Security, Y. Xiao, X. Shen, D. Du eds., Boston, MA: Springer US, 2007, pp. 183-210. http://www.springerlink.com/index/10.1007/978-0-387-33112-6

Topic	Location privacy measures
Prime reference	M. E. Andrs, N. E. Bordenabe, K. Chatzikokolakis, and C. Palamidessi, "Geo-indistinguishability: differential privacy for location-based systems," ACM SIGSAC Conference on Computer & Communications Security, CCS, 4–8 November 2013, pp. 901–914. http://dl.acm.org/citation.cfm?id=2508859.2516735
Starting references	Z. Montazeri, A. Houmansadr, and H. Pishro-Nik, "Achieving Perfect Location Privacy in Wireless Devices Using Anonymization," <i>ArXiv</i> , article ID 1610.05210, 20 January 2017. http://arxiv.org/abs/http://arxiv.org/abs/1610.05210
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Topic	Location privacy protocols
Prime reference	T. Whalen, "Mobile Devices and Location Privacy: Where Do We Go from Here?," <i>IEEE Security & Privacy Magazine</i> , vol. 9, n. 6, pp. 61–62, November 2011. http://ieeexplore.ieee.org/document/6096615
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Topic	The Meltdown and Spectre vulnerabilities on Intel, AMD and ARM processors
Prime reference	P. Kocher et al., "Spectre Attacks: Exploiting Speculative Execution," ArXiv, article ID 1801.01203, 3 January 2018. http://arxiv.org/abs/1801.01203
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Starting references	G.T. Amariucai and W. Shuangqing, "Jamming Games in Fast-Fading Wireless Channels," <i>Proceedings of 2008 IEEE Global Telecommunications Conference</i> , GLOBECOM '08, pp. 1–5. http://ieeexplore.ieee.org/document/4698680
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Topic	Key management for sensor networks
Prime reference	V.K. Rayi, "Key Management Schemes in Sensor Networks," Wireless Network Security, Y. Xiao, X. Shen, D. Du eds., Boston, MA: Springer US, 2007, pp. 341-380. http://www.springerlink.com/index/10.1007/978-0-387-33112-6
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Topic	Physical layer secrecy for fading channels
Prime reference	P.K. Gopala, L. Lai, and H. El Gamal, "On the Secrecy Capacity of Fading Channels," <i>IEEE Transactions on Information Theory</i> , vol. 54, n. 10, pp. 4687–4698, October 2008. http://ieeexplore.ieee.org/document/4626059
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Prime reference	N. Gisin, G. Ribordy, W. Tittel, and H. Zbinden, "Quantum cryptography," Reviews of Modern Physics, vol. 74, n. 1, pp. 145-195, January 2002. http://link.aps.org/doi/10.1103/RevModPhys.74.145
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Topic	Secret sharing
Prime reference	A. Shamir, "How to share a secret," Communications of the ACM, vol. 22, n. 11, pp. 612-613, November 1979. http://dl.acm.org/citation.cfm?id=359168.359176
Starting references	K. R. Sahasranand, N. Nagaraj, and S. Rajan, "How not to share a set of secrets," ArXiv, article ID 1001.1877, 12 January 2010. http://arxiv.org/abs/1001.1877
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Topic	Secure data aggregation in wireless sensor networks
Prime reference	D. Wagner, "Resilient aggregation in sensor networks," 2004 ACM workshop on Security of ad hoc and sensor networks, SASN'04, 25 October 2004, cp(78-87). http://dl.acm.org/citation.cfm?id=1029102.1029116
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Topic	Secure network coding
Prime reference	L. Lima, J. P. Vilela, P. F. Oliveira, and J. Barros, "Network Coding Security: Attacks and Countermeasures," ArXiv, article ID 0809.1366, 1 September 2008. http://arxiv.org/abs/0809.1366
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Topic	Secure routing in ad hoc networks
Prime reference	L. Buttyan and J. Hubaux, Security and cooperation in wireless networks. Thwarting malicious and selfish behavior in the age of ubiquitous computing, Cambridge University Press, 2007, Cap. 7. http://secowinet.epfl.ch/
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Topic	Security in the Internet of Things
Prime reference	J. Granjal, E. Monteiro, and J. Sa Silva, "Security for the Internet of Things: A Survey of Existing Protocols and Open Research Issues," <i>IEEE Communications Surveys & Tutorials</i> , vol. 17, n. 3, pp. 1294–1312, January 2015. http://ieeexplore.ieee.org/document/7005393
Starting references	J. Zhou, Z. Cao, X. Dong, and A. V. Vasilakos, "Security and Privacy for Cloud-Based IoT: Challenges," IEEE Communications Magazine, vol. 55, n. 1, pp. 26-33, January 2017. http://ieeexplore.ieee.org/document/7823334
	R. Hummen, J. Hiller, H. Wirtz, M. Henze, H. Shafagh, and K. Wehrle, "6LoWPAN fragmentation attacks and mitigation mechanisms," <i>ACM conference on security and privacy in wireless and mobile networks</i> , <i>WiSec</i> , 17–19 April 2013, pp. 55–66. http://dl.acm.org/citation.cfm?id=2462096.2462107
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Topic	Universal hashing functions
Prime reference	M. N. Wegman and J. L. Carter, "New hash functions and their use in authentication and set equality," Journal of Computer and System Sciences, vol. 22, n. 3, pp. 265-279, June 1981. http://linkinghub.elsevier.com/retrieve/pii/0022000081900337
Starting references	H. Krawczyk, "LFSR-based hashing and authentication," <i>Advances in Cryptology, CRYPTO'94</i> , pp. 129–139, 1994. http://www.springerlink.com/index/T08MQA4KCJPB9K65.pdf
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Topic	Variations and extensions on the Shannon secrecy system
Prime reference	M.E. Hellman, "An extension of the Shannon theory approach to cryptography," <i>IEEE Transactions on Information Theory</i> , vol. 23, n. 3, pp. 289–294, May 1977. http://ieeexplore.ieee.org/document/1055709
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