

MEHMET UFUK ÇAĞLAYAN LIST of PUBLICATIONS

Last Updated: April 12, 2017

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Google Scholar : All Citations: 731, h-index: 14 (April 2017)

Journal Papers (in Review)

1. Orhan Ermiş, Şerif Bahtiyar, Emin Anarım, **M. Ufuk Çağlayan**, " A Secure and Efficient Group Key Agreement Approach for Mobile Ad Hoc Networks, " in review, *Ad Hoc Networks*.
2. Yiğit Kültür and **Mehmet Ufuk Çağlayan**, "SBS: Using Spending Behaviour Similarity to Improve Credit Card Fraud Detection, "in review, *International Journal of Systems Science*.
3. Orhan Ermiş, Şerif Bahtiyar, Emin Anarım, **M. Ufuk Çağlayan**, "A Key Agreement Protocol with Partial Backward Confidentiality, " in review (minor revision requested), *Computer Networks*.
4. Yiğit Kültür and **Mehmet Ufuk Çağlayan**, "A Novel Cardholder Behavior Model for Detecting Credit Card Fraud, "in review (minor revision requested), *AutoSoft-Intelligent Automation and Soft Computing*.

Journal Papers

1. **Mehmet Ufuk Çağlayan**, "G-Networks and their Applications to Machine Learning, Energy Packet Networks and Routing," to appear in *Probability in the Engineering and Informational Sciences*, in 2017 (ISSN: 0269-9648 Print, 1469-8951 Online, SCI-E)
2. Yiğit Kültür and **Mehmet Ufuk Çağlayan**, "Hybrid approaches for detecting credit card fraud, " *Expert Systems*, Accepted 28 October 2016.
(DOI:[10.1111/exsy.12191](https://doi.org/10.1111/exsy.12191), ISSN: 0266-4720 Print, 1468-0394 Online, SCI-E)
3. **M. Ufuk Çağlayan**, "Erol-Gelenbe A Career in Multi-Disciplinary Probability Models, " *Probability in the Engineering and Informational Sciences*, **30**, 2016, 308–325. (Issue 3, July 2016)
(DOI: 10.1017/S0269964816000024, ISSN: 0269-9648 Print, 1469-8951 Online, SCI-E)
4. Mete Akgün and **Mehmet Ufuk Çağlayan**, "Towards Scalable Identification in RFID Systems, " *Wireless Personal Communications*, Vol. 86 (2016), No. 2, pp. 403–421.
(DOI: 10.1007/s11277-015-2936-7, ISSN: 0929-6212, SCI-E)
5. Mete Akgün, Ali Osman Bayrak and **Mehmet Ufuk Çağlayan**, "Attacks and improvements to chaotic map-based RFID authentication protocol, " *Security and Communication Networks*, Vol. 8, No. 18 (December 2015), pp. 4028–4040.
(DOI: 10.1002/sec.1319, ISSN:1939-0122, SCI-E)
6. Mete Akgün, **M. Ufuk Çağlayan**, "Providing destructive privacy and scalability in RFID systems using PUFs, " *Ad Hoc Networks*, Vol. 32 (September 2015), pp. 32–42.
(doi:[10.1016/j.adhoc.2015.02.001](https://doi.org/10.1016/j.adhoc.2015.02.001), ISSN: 1570-8705, SCI-E)
7. Engin Deveci and **Mehmet U. Çağlayan**, "Model Driven Security Framework for Software Design and Verification", *Security and Communication Networks*, vol. 8 (2015), issue 16, pp. 2768–2792.
(DOI: 10.1002/sec.1200 (ISSN:1939-0122, SCI-E)
8. Orhan Ermiş, Şerif Bahtiyar, Emin Anarım, **M. Ufuk Çağlayan**, "An improved conference-key agreement protocol for dynamic groups with efficient fault correction, " *Security and Communication Networks*, Volume:8, Issue:7 (May 2015), pp.1347-1359.
(DOI: 10.1002/sec.1089 (ISSN:1939-0122, SCI-E)
9. Şerif Bahtiyar and **Mehmet Ufuk Çağlayan**, "Trust Assessment of Security for E-Health Systems", *Electronic Commerce Research and Applications Journal*, Special Issue on eHealth and Health Care Service Transformation, 13 (2014), pp. 164-177.
(DOI:10.1016/j.elerap.2013.10.003, ISSN: 1567-4223, SCI-E)
10. Şerif Bahtiyar and **Mehmet Ufuk Çağlayan**, "Security Similarity Based Trust in Cyber Space", *Knowledge-Based Systems Journal*, Vol: 52, November 2013, pp. 290-301.
(DOI:10.1016/j.knosys.2013.08.012, ISSN:0950-7051, SCI-E)
11. Devrim Ünal and **M. Ufuk Çağlayan**, "XFPM-RBAC: XML Based Specification Language for Security Policies in Multi-Domain Mobile Networks," *Security and Communication Networks* Vol: 6, 12, pp. 1420-1444, December 2013.
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12. D. Unal, **M. U. Çağlayan**, "A formal role-based access control model for security policies in multi-domain mobile networks," *Computer Networks* 57 (2013) 330–350.
(DOI:10.1016/j.comnet.2012.09.018, ISSN:1389-1286, SCI-E)
13. Şerif Bahtiyar and **Mehmet Ufuk Çağlayan** "Extracting Trust Information from Security System of a Service," *Journal of Network and Computer Applications*, Vol: 35, No: 1, pp 480-490, January 2012
(DOI: 10.1016/j.jnca.2011.10.002, ISSN: 1084-8045, SCI-E)
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(DOI: 10.3906/elk-1105-54, ISSN: 1300=0632, SCI-E)
15. E. Önem, A. Burak Gürdağ and **M. Ufuk Çağlayan**, "Formal Security Analysis of Ariadne Secure Routing Protocol Using Model Checking," *Int. J. Ad Hoc and Ubiquitous Computing*, Vol. 9, No. 1, pp 12-24, 2012.
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16. Yeonghwan Tscha and **Mehmet Ufuk Çağlayan**, "Query slipping prevention for trajectory-based publishing and subscribing in wireless sensor networks," *Computer Communications*, Vol.29 Issue 11, pp.1979-1991, 2006.
(DOI:10.1016/j.comcom.2005.12.010, ISSN: 0140-3664, SCI-E)
17. İ. Demirkol, C. Ersoy, **M. U. Çağlayan** ve H. Deliç, "Location Area Planning and Cell to Switch Assignment in Cellular Networks Using Simulated Annealing," *IEEE Tr. on Wireless Communications*, Vol.3, No.3, pp. 880-890, May 2004.
(DOI: 10.1109/TWC.2004.827767, ISSN: 1536-1276, SCI-E)
18. A. Levi, **M. U. Çağlayan** and C. K. Koc, "Use of nested certificates for efficient, dynamic and trust preserving public key infrastructure," *ACM TISSEC Transactions on Information and System Security*, Vol: 7, no. 1, pp. 21-59, February 2004.
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19. **M. U. Çağlayan**, F. Sivrikaya ve B. Yener, "What is the Optimum Length of a Wireless Link," *Upgrade*, Vol V, No:1 pp. 20-25, February 2004.
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20. E. Onur, H. Deliç, C. Ersoy ve **M. U. Çağlayan**, "Measurement Based Replanning of Cell Capacities in GSM Networks," *Computer Networks*, Vol: 39 (6), pp 749-767, August 2002.
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(DOI:10.1016/S0166-5316(99)00022-X, ISSN: 0166-5316, SCI)
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23. S. F. Oktuğ, **M. U. Çağlayan**, "Parameter Threshold in Type II Traffic for Banyan Networks, " *Electronics Letters*, v32, No.3, 1st February 1996, pp 181-182.
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24. **M. U. Çağlayan**, "Performance Modeling and Evaluation of SAMIS Computer Network by Using PAWS, " *Arabian Journal for Science and Engineering*, Oct.1990, pp 565-575.
(ISSN: 1319-8025, SCI-E)
25. S. S Yau, **M. U. Çağlayan**, "Distributed Software System Design Representation Using Modified Petri Nets, " *IEEE Trans. on Software Engineering*, vol. SE-9, No.6, November 1983, pp 733-745.
(DOI: 10.1109/TSE.1983.235581, ISSN: 0098-5589, SCI)

Introductions and Letters to the Editor

1. **Mehmet Ufuk Çağlayan**, "Introduction to the Special Section," to appear in *European Review*, Vol. 25, No. 2, May 2017, Special Section in Honour of Erol GELENBE.
2. **M. U. Çağlayan**, "On the Poetic Connections of ADA, " *Communications of the ACM*, vol. 24, No.8, August 1981, pp 548-548.
(ISSN: 0001-0782, SCI)

International Conference Papers

1. Şerif Bahtiyar, Orhan Ermiş, Mehmet Ufuk Çağlayan, "Adaptive Trust Scenarios for Mobile Security, " Proc. 13th International Conference MobiWIS 2016, Vienna, Austria, August 22-24, 2016, in *Mobile Web and Intelligent Information Systems. Lecture Notes in Computer Science* Vol. 9847, pp 137-148.

- (DOI: [10.1007/978-3-319-44215-0_11](https://doi.org/10.1007/978-3-319-44215-0_11))
2. Yiğit Kültür, **Mehmet Ufuk Çağlayan**, “A Novel Cardholder Behavior Model for Detecting Credit Card Fraud,” 9th International Conference on Application of Information and Communication Technologies, 14-16 October 2015, Rostov-on-Don, Russia, pp 148-154. (DOI: [10.1109/ICAICT.2015.7338535](https://doi.org/10.1109/ICAICT.2015.7338535))
 3. Gokcan Cantali, Orhan Ermis, Gurkan Gur, Fatih Alagoz, M Ufuk Caglayan, “Lightweight context-aware security system for wireless Internet access,” 2015 IEEE Conference on Communications and Network Security (CNS), 28-30 Sept. 2015, Florence, Italy, pp 765–766. (Short Paper, DOI: [10.1109/CNS.2015.7346925](https://doi.org/10.1109/CNS.2015.7346925))
 4. **Mehmet Ufuk Çağlayan**, “ISCIS and Erol Gelenbe’s Contributions,” *Proc. 30th Int. Symp. on Computer and Information Sciences (ISCIS 2015)*, September 23-25, 2015, London, England, LNEE 363, Springer Verlag, 2015, pp. 3-17 (Invited Paper). (DOI: [10.1007/978-3-319-22635-4_1](https://doi.org/10.1007/978-3-319-22635-4_1))
 5. Akgün, M. and **M. U. Çağlayan**, “Weaknesses of two RFID protocols regarding de-synchronization attacks,” *International Wireless Communications and Mobile Computing Conference, IWCMC 2015*, Dubrovnik, Croatia, August 24-28, 2015, pp. 828–833. (DOI: [10.1109/IWCMC.2015.7289190](https://doi.org/10.1109/IWCMC.2015.7289190))
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 7. Orhan Ermiş, Şerif Bahtiyar, Emin Anarım, **Mehmet Ufuk Çağlayan**, “Open Problems for Group-Key Exchange Protocol on Vehicular Ad-hoc Networks,” *IEEE the 2nd International Conference on Connected Vehicles & Expo (ICCVE 2013)*, December, 2013, Las Vegas, USA (DOI: [10.1109/ICCVE.2013.6799908](https://doi.org/10.1109/ICCVE.2013.6799908))
 8. Orhan Ermiş, Şerif Bahtiyar, Emin Anarım, **Mehmet Ufuk Çağlayan**, “An Improved Fault-Tolerant Conference-Key Protocol with Forward Secrecy,” *The 6th International Conference on Security of Information and Networks (SIN2013)*, November, 2013, Aksaray, Turkey
 9. Akgün, M. and **M. U. Çağlayan**, “PUF Based Scalable Private RFID Authentication,” *Sixth International Conference on Availability, Reliability and Security, ARES 2011*, Vienna, Austria, August 22-26, 2011, pp. 473–478, 2011.
 10. Mete Akgün, Ali Özhan Gürel and **M. Ufuk Çağlayan**, “Attacks to a Lightweight RFID Mutual Authentication Protocol,” *Proc. 5th International Conference for Internet Technology and Secured Transactions (ICITST 2010)*, London, UK, November 8-11, 2010, pp 1-5.
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21. **Mehmet Ufuk Çağlayan**, "Secure Routing in Ad Hoc Networks and Model Checking," *Proc. Int. Symp. on Security of Information and Networks (SIN 2007)*, May 9-10, 2007, Gazi Magusa, Northern Cyprus (Invited Paper).
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36. Albert Levi, **M. Ufuk Çağlayan**, "NPKI: Nested Certificate Based Public Key Infrastructure," *Proc. Thirteenth International Symposium on Computer and Information Sciences (ISCIS XIII)*, Antalya, October 1998, IOS Press, Concurrent Systems Engineering Series, vol. 53, pp 397-404.
37. Sema F. Oktuğ, Mete Yılmaz, **M. Ufuk Çağlayan**, "An Entropy Based Traffic Heterogeneity Measure for ATM Switches," *Proc. Thirteenth International Symposium on Computer and Information Sciences (ISCIS XIII)*, Antalya, October 1998, pp 420-427.
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39. Albert Levi, **M. Ufuk Çağlayan**, "The Problem of Trusted Third Party in Authentication and Digital Signature Protocols," *Proc. Twelfth International Symposium on Computer and Information Sciences (ISCIS XII)*, Antalya, October 1997, pp 317-324.
40. S. F. Oktuğ, A. Altınordu, **M. U. Çağlayan**, "A Multistage Self-Routing Interconnection Network for Heterogeneous Traffic Requirements and Its Implementation Aspects," *Proc. ICT'96 Int. Conf. on Telecommunications*, April 13-17, 1996, Istanbul, pp 496-503.
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43. F. Ertemalp, Y. Ceyhun, **M. U. Çağlayan**, "The Need for a GOSIP," *Proc. Conf. the Future of Electronic Communications*, Moscow, June 1993, pp 29-36.
44. **M. U. Çağlayan**, "Development of a Remote Procedure Call Facility," *Proc. Third International Symposium on Computer and Information Sciences*, October 1988, İzmir, Turkey, pp 624-632.
45. **M. U. Çağlayan**, "A Stochastic Petri Net Simulator," *Proc. Int. Conf. Modeling and Simulation*, June 1988, İstanbul, Turkey, pp 223-234.
46. S. H. Senan, G. Ergün, D. Pearson-Kirk, **M. U. Çağlayan**, "Development of a Highway Inventory System Using Photologging," *Proc. 3rd IRF Middle East Regional Meeting*, February 13-18, 1988, Riyadh, Saudi Arabia, pp 1.327-1.343.
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National Conference Papers

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2. T. Çataklı, O. Ermiş, C. Tunca, S. Işık, C. Ersoy and **M. U. Çağlayan**, "Kablosuz Algılayıcı Ağlarında Grup Anahtarı Değişim Protokollerinin Enerji Başarımı Değerlendirmeleri," *18. Akademik Bilişim Konferansı*, February 2016, Aydın (in Turkish)
3. G. Çantalı, O. Ermiş, G. Gür, F. Alagöz and **M. U. Çağlayan**, "Kablosuz İnternet Erişimi için Hafif Sıklet Bağlam Bilinçli Ağ Güvenlik Sistemi," *18. Akademik Bilişim Konferansı*, February 2016, Aydın (in Turkish)
4. T. Altınpulluk and **M. U. Çağlayan**, "MESKEN: Web Tabanlı Emlak Karar Destek Sistemi," *18. Akademik Bilişim Konferansı*, February 2016, Aydın (in Turkish)
5. E. Deveci and **M. U. Çağlayan**, "Bulut Tabanlı Yazılımlarda Tasarım Modeli Üzerinden Güvenlik Tehditlerinin Tespiti," *20. Türkiye'de İnternet Konferansı*, December 2015, İstanbul. (in Turkish)
6. M. D. Erdem, O. Ermiş, C. Tunca, S. Işık, **M. U. Çağlayan**, Cem Ersoy, Kablosuz Algılayıcı Ağlarında Grup Anahtarı Yönetim Protokollerinin Başarım Değerlendirmesi, *17. Akademik Bilişim Konferansı*, February 2015, Eskişehir (in Turkish)
7. O. Ermiş, Ş. Bahtiyar, E. Anarım, **M. U. Çağlayan**, Grup Anahtarı Oluşturma Protokolleri ve Uygulamaları, *16. Akademik Bilişim Konferansı*, February 2014, Mersin (in Turkish)
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9. M. Kutay, S. Z. Dicle and **M. U. Çağlayan**, "Çizge Tabanlı Güven Modellenmesi," *14. Akademik Bilişim Konferansı*, February 2012, Uşak (in Turkish)
10. M. O. Topgül and **M. U. Çağlayan**, "MOD_ANTICRAWL: İnternet Robotlarından Korunma Modülü," *14. Akademik Bilişim Konferansı*, February 2012, Uşak
11. Devrim Ünal and **M. Ufuk Çağlayan**, "Formal Specification of Security Policies in Multi Domain Network," *11. Akademik Bilişim*, February 2009. (in Turkish)
12. Devrim Ünal, Ufuk Çağlayan, "Çok Etki Alanlı Ağlar için Formel Güvenlik Politikası Betimleme," *10. Akademik Bilişim*, February 2008 (in Turkish)
13. Dilek Demirel İşçi and **Ufuk Çağlayan**, "Hierarchical Group Key Agreement Scheme for Mobile Ad Hoc Networks," *1. Ulusal Kriptoloji Sempozyumu Bildiriler Kitabı*, 18-20 November 2005, Ankara, pp 177-188.
14. S. Bahtiyar, F. Alagöz, **U. Çağlayan**, "Dördüncü Nesil Kablosuz Ağlar Arasında Karşılıklı Kimlik Doğrulama Uyumluluğu İçin Yeni Bir Çözüm," *ABG 2005 Ağ ve Bilgi Güvenliği Ulusal Sempozyumu*, June 2005, İstanbul, Turkey. (in Turkish)

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