
List of papers

I. Scientific papers published in interationals journals/proceedings

1. Ania M. Piotrowska, Marek Klonowski : *Some Remarks and Ideas about Monetization of Sensitive Data* Accepted. Lecture Notes in Computer Science (Springer Verlag) ??, pp. ?? - ??, (Conference 10th Internation Workshop Data Privacy Management 2015)
2. Marcin Bieńkowski, Marek Klonowski, Dariusz R. Kowalski , Mirosław Korzeniowski: *Randomized Mutual Exclusion on a Multiple Access Channel*. Accepted for Distributed Computing, Springer (2015)..
3. Jacek Cichoń, Rafał Kapelko, Marek Klonowski: *On the Dynamics of Systems of Urns* DMTCS – Discrete Mathematics & Theoretical Computer Science. pp. 235-250 (2015)
4. Marcin Bienkowski, Leszek A. Gasieniec, Marek Klonowski, Mirosław Korzeniowski, Bernard Mans, Stefan Schmid, Roger Wattenhofer *Distributed Alarming in the On-Duty and Off-Duty Models* Accepted for IEEE/ACM Transactions on Networking (2015).
5. Marek Klonowski, Dominik Pająk: *Electing a Leader in Wireless Networks Quickly Despite Jamming* Proceedings 27th ACM Symposium on Parallelism in Algorithms and Architectures (SPAA) (ACM), pp. 304 - 312, (Conference SPAA 2015).
6. Michał Ren, Katarzyna Rybarczyk, Marek Klonowski, Mirosław Kutyłowski: *Mixing in random digraphs with application to the forward - secure key evolution in WSN* TONS – ACM Transactions on Sensor Networks 11(2) pp. 29:1-29:27 (2015).
7. Przemysław Błażkiewicz, Marek Klonowski, Mirosław Kutyłowski, Piotr Syga: *Lightweight Protocol for Trusted Spontaneous Communication* Lecture Notes in Computer Science (Springer Verlag) 9473, pp. 228 - 242, (Conference INTRUST 2014).
8. Marcin Kardas, Marek Klonowski, Dominik Pająk, Kamil Wolny: *k-Selection Protocols from Energetic Complexity Perspective* International Journal of Networking and Computing 4(1) pp. 111-130 (2014).
9. Ron Berman, Amos Fiat, Marcin Gomulkiwicz, Marek Klonowski, Mirosław Kutyłowski, Tomer Levinboim, Amnon Ta-Shma: *Provable unlinkability against traffic analysis with low message overhead*. Journal Cryptology (Springer Verlag) 28(3) pp. 623-640 (2015)
10. Jacek Cichoń, Rafał Kapelko, Marek Klonowski: *On the Dynamics of Systems of Urns* Proceedings of 25th International Conference on Probabilistic, Combinatorial and Asymptotic Methods for the Analysis of Algorithms (AofA) 2014.
11. Marek Klonowski, Michał Koza, Mirosław Kutyłowski: *Efficient and Robust Data Aggregation Using Untrusted Infrastructure* Proceedings of Security of Information and Networks Conference (ACM), pp. 123 - 130, (Conference SIN 2013).

12. Przemysław Błażkiewicz, Marek Klonowski, Krzysztof Majcher, Piotr Syga: *Blocker-Type Methods for Protecting customers' privacy in RFID Systems* Proceedings of International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery (IEEE Computer Society), pp. 89-96, (CyberC, 2013).
13. Marcin Kardas, Marek Klonowski, Dominik Pająk: *Leader Election Protocols for Single-Hop Radio Networks* Proceedings of 42nd International Conference on Parallel Processing (ICPP) (IEEE Computer Society), pp. 726-733, (ICPP, 2013).
14. Marek Klonowski, Mirosław Kutylowski, Piotr Syga: *Chameleon RFID and Tracking Prevention*, Proceedings of The 2013 Workshop on RFID and IoT Security (IOS 2013) 123(3), pp. 17-30, (RFID Sec Asia'2013).
15. Jacek Cichoń, Marek Klonowski: *On Flooding in the Presence of Random Faults* Fundamenta Informaticae (IOS 2013) 123(3), pp. 276-287, (2013).
16. Jacek Cichoń, Zbigniew Golebiewski, Marcin Kardas, Marek Klonowski: *On Delta-Method of Moments and Probabilistic Sums* Proceedings of the 10th Meeting on Analytic Algorithmics and Combinatorics (SIAM), pp. 91-98, (ANALCO, 2013).
17. Marcin Kardas, Marek Klonowski, Dominik Pająk, Kamil Wolny: *K-Selection Protocols from Energetic Complexity Perspective* 2013 IEEE International Symposium on Parallel & Distributed Processing - Workshops (IEEE Computer Society), pp. 726-733, (APDCM, 2013).
18. Marek Klonowski, Michał Koza: *Countermeasures against sybil attacks in WSN based on proofs-of-work* Proceedings of sixth ACM conference on Security and privacy in wireless and mobile networks (ACM), pp. 179 - 184, (Conference WISEC 2013).
19. Marek Klonowski, Krzysztof Majcher, Wojciech Macyna, Filip Zagórski: *Hidden Bits Approach for Authentication in RFID Systems* Lecture Notes in Computer Science (Springer Verlag) 7739, pp. 48 - 58, (Conference RFIDSec 2012).
20. Marek Klonowski, Dominik Pająk: *On k-Aletr problem* Proceedings of 26th IEEE International Parallel and Distributed Processing Symposium - IPDPS (IEEE Computer Society), pp. 1057-1067, (Conference IPDPS 2012).
21. Marek Klonowski, Mirosław Kutylowski, Jan Zatópiński: *Energy Efficient Alert in Single-Hop Networks of Extremely Weak Devices*, Theoretical Computer Science (Elsevier 2012) 453, pp. 65-74. (2012)
22. Marcin Kardas, Marek Klonowski, Piotr Syga, Szymon Wilczek: *Obfuscated Counting in Single-Hop Radio Network* IEEE 18th International Conference on Parallel and Distributed Systems - IPDPS (IEEE Computer Society), pp. 692-693, (Conference ICPADS 2012).
23. Marek Klonowski, Kamil Wolny: *Immune Size Approximation Algorithms in Ad Hoc Radio Network* Lecture Notes in Computer Science (Springer Verlag) 7158, pp. 33 - 48, (Conference EWNS 2012).

24. Marek Klonowski, Mirosław Kutylowski, Michał Koza: *How to Transmit Messages via WSN in a Hostile Environment*, Proceedings of the International Conference on Security and Cryptography - SECRYPT (SciTePress), pp. 387-390, (Conference SECRYPT 2011).
25. Krzysztof Barczyński, Przemysław Błażkiewicz, Marek Klonowski, Mirosław Kutylowski: *Self-keying identification mechanism for small devices*. Chapter in *Secure and Trust Computing, Data Management and Applications – Communications in Computer and Information Science* (Springer Verlag) 186 (1), pp. 37 - 44, (2011).
26. Marek Klonowski, Michał Przykucki, Tomasz Strumiński: *Data deletion with time-aware adversary model* Proceedings of 12th IEEE/IFIP International Symposium on Trusted Computing and Communications (IEEE Computer Society), pp. 659 - 664, (Conference CSE 2011).
27. Marcin Bieńkowski, Marek Klonowski, Dariusz R. Kowalski, Mirosław Korzeniowski: *Dynamic sharing of a multiple access channel*. Proceedings of 27th International Symposium on Theoretical Aspects of Computer Science LIPIcs (5) (Schloss Dagstuhl-Leibniz-Zentrum fuer Informatik), str. 83 - 94, (Conference STACS 2010).
28. Andréé Brinkman, Marcin Bieńkowski, Marek Klonowski, Mirosław Korzeniowski: *Skew CCC+: Heterogeneous Distributed Hash Table*, Lecture Notes in Computer Science (Springer Verlag) 6490, pp. 219 - 234, (Conference OPODIS 2010).
29. Marek Klonowski, Michał Przykucki, Tomasz Strumiński, Małgorzata Sulkowska: *Practical universal random sampling*, Lecture Notes in Computer Science (Springer Verlag) 6434, pp. 84 - 100, (Conference IWSEC 2010).
30. Jacek Cichoń, Marek Klonowski: *A Note on Invariant Random Variables*, DMTCS proc. AM (Discrete Mathematics and Theoretical Computer Science), pp. 107-116, (Conference AofA 2010).
31. Marek Klonowski, Michał Koza, Mirosław Kutylowski: *Repelling Sybil-type Attacks in Wireless Ad Hoc Networks*, Lecture Notes in Computer Science (Springer Verlag) 5793, pp. 166 - 179, (Conference ACISP 2010).
32. Marcin Bieńkowski, Leszek Gąsieniec, Marek Klonowski, Mirosław Korzeniowski, Stefan Schmid: *Event Extent Estimation*, Lecture Notes in Computer Science (Springer Verlag) 6058, pp. 57 - 71, (Conference SIRROCCO 2010).
33. Nikita Borisov, Marek Klonowski, Mirosław Kutylowski, Anna Lauks-Dudka: *Modified ModOnions and Its Security - Tagging Approach*, Transactions on Internet and Information Systems 4(3), pp. 380-399, (2010).
34. Nikita Borisov, Marek Klonowski, Mirosław Kutylowski, Anna Lauks-Dudka: *Modified ModOnions and Its Security*, Lecture Notes in Computer Science (Springer Verlag) 5984, pp. 258 - 273, (Conference ICISC 2009).
35. Marek Klonowski, Mirosław Kutylowski, Jan Zatopianski: *Energy Efficient Alert in Single-Hop Networks of Extremely Weak Devices* Lecture Notes in Computer Science (Springer Verlag) 5804, pp. 139 - 150, (Conference ALGOSENSORS 2009).

36. Zbigniew Golebiewski, Marek Klonowski, Michał Koza, Mirosław Kutylowski: *Towards Fair Leader Election in Wireless Networks*, Lecture Notes in Computer Science (Springer Verlag) 5793, pp. 166 - 179, (Conference ADHOC-NOW 2009).
37. Marek Klonowski, Mirosław Kutylowski, Łukasz Krzywiecki, Anna Lauks: *Step-out Group Signatures*, Computing (Springer Verlag 2009) 85(1-2), pp. 137-151. (2009)
38. Marek Klonowski, Michał Przykucki, Tomasz Strumiński: *Data Deletion with Provable Security*, Lecture Notes in Computer Science (Springer Verlag) 5379, pp. 240 - 255, (Conference WISA 2009).
39. Przemysław Błażkiewicz, Zbigniew Gołębiowski, Marek Klonowski, Krzysztof Majcher: *RFID-tags with Allowers*, Proceedings of IEEE PerSec 2009 (IEEE Computer Society), pp. 1 - 6, (Conference PerSec 2009).
40. Zbigniew Gołębiowski, Marek Klonowski, Michał Koza, Mirosław Kutylowski: *Leader Election for Multi-Channel Radio Networks –Dependant versus Independant Trials*, Proceedings of First Asian Conference on Intelligent Information and Database Systems (IEEE Computer Society), pp. 477-482, (Conference ACIIDS 2009).
41. Joanna Boroń, Marek Klonowski: *Single Transferable Vote Analogue of Desmedet-Kurosawa Protocol* Tatra Mountains Mathematical Publications 41(2008), pp. 93-106. (2008)
42. Marek Klonowski, Mirosław Kutylowski, Anna Lauks: *Repelling Detour Attack against Onions with Re-Encryption*, Lecture Notes in Computer Science (Springer Verlag) 5037, pp. 296 - 308, (Conference ACNS 2008).
43. Jacek Cichoń, Marek Klonowski, Mirosław Kutylowski: *Distributed Verification of Mixing - Local Forking Proofs Model*, Lecture Notes in Computer Science (Springer Verlag) 5107, pp. 128 - 140, (Conference ACISP 2008).
44. Jacek Cichoń, Marek Klonowski, Mirosław Kutylowski: *Privacy Protection for RFID's – Hidden Subset Identifiers*, Lecture Notes in Computer Science (Springer Verlag) 5013, pp. 298 - 314, (Conference PERVASIVE 2008).
45. Marek Klonowski, Mirosław Kutylowski, Łukasz Krzywiecki, Anna Lauks: *Step-out Ring Signatures*, Lecture Notes in Computer Science (Springer Verlag) 5162, pp. 431 - 442, (Conference MFCS 2008).
46. Marek Klonowski, Przemysław Kubiak, Mirosław Kutylowski: *Practical Deniable Encryption*, Lecture Notes in Computer Science (Springer Verlag) 4910, pp. 599 - 609, (Conference SOFSEM 2008).
47. Marek Klonowski, Tomasz Strumiński: *Proofs of communication and its application for fighting SPAM*, Lecture Notes in Computer Science (Springer Verlag) 4910, pp. 720 - 730, (Conference SOFSEM 2008).
48. Marek Klonowski, Mirosław Kutylowski, Michał Ren, Katarzyna Rybarczyk: *Forward-secure Key Evolution Protocol in Wireless Sensor Networks*. Lecture Notes in Computer Science (Springer Verlag) 4856, pp. 102 - 120, (Conference CANS 2007).

49. Jacek Cichoń, Marek Klonowski, Łukasz Krzywiecki, Bartłomiej Różański, Paweł Zieliński: *Random Subsets of Interval and P2P Protocols*, Lecture Notes in Computer Science (Springer Verlag) 4627, pp. 409 - 421, (Conference RANDOM 2007).
50. Jacek Cichoń, Marek Klonowski, Mirosław Kutylowski: *Privacy Protection for Dynamic Systems Based on RFID Tags*, Proceedings of 4th IEEE International Workshop on Pervasive Computing and Communication Security (IEEE Computer Society), pp. 235-240, (Conference PerCom 2007).
51. Marek Klonowski, Anna Lauks: *Extended Sanitizable Signatures*, Lecture Notes in Computer Science (Springer Verlag) 4296, pp. 343 - 356, (Conference ICISC 2006).
52. Marek Klonowski, Przemysław Kubiak, Mirosław Kutylowski, Anna Lauks: *How to Protect a Signature from Being Shown to a Third Party*, Lecture Notes in Computer Science (Springer Verlag) 4083, pp. 192 - 202, (Conference TrustBus 2006).
53. Marcin Gogolewski, Marek Klonowski, Mirosław Kutylowski, Przemysław Kubiak, Anna Lauks, Filip Zagórski: *Kleptographic Attacks on E-voting Schemes*, Lecture Notes in Computer Science (Springer Verlag) 3995, pp. 494 - 508, (Conference ETRICS 2006).
54. Marek Klonowski, Mirosław Kutylowski, Anna Lauks, Filip Zagórski: *Universal Re-Encryption of signatures and controlling anonymous information flow*, Tatra Mountains Mathematical Publications 33(2006), pp. 179-188. (2006).
55. Marek Klonowski, Mirosław Kutylowski, Bartłomiej Różański: *Hiding Data Sources in P2P Networks*, Proceedings of Applied Public Key Infrastructure w serii Frontiers in Artificial Intelligence and Applications (128), (IOS Press), pp. 23 -34, (Conference IWAP 2005).
56. Marcin Gogolewski, Marek Klonowski, Mirosław Kutylowski: *Local View Attack on Anonymous Communication*, Lecture Notes in Computer Science (Springer Verlag) 3679, pp. 475 - 488, (Conference ESORICS 2005).
57. Marek Klonowski, Mirosław Kutylowski: *Provable Anonymity for Networks of Mixes*, Lecture Notes in Computer Science (Springer Verlag) 3727, pp. 26 - 28, (Conference Information Hiding 2005).
58. Marek Klonowski, Mirosław Kutylowski, Anna Lauks, Filip Zagórski: *A Practical Voting Scheme with Receipts*, Lecture Notes in Computer Science (Springer Verlag) 3650, pp. 490 - 497, (Conference ISC 2005).
59. Marek Klonowski, Mirosław Kutylowski, Filip Zagórski: *Anonymous communication with on-line and off-line onion encoding*, Lecture Notes in Computer Science (Springer Verlag) 3381, pp. 229 - 238, (Conference SOFSEM 2005).
60. Marek Klonowski, Mirosław Kutylowski, Anna Lauks, Filip Zagórski: *Conditional Digital Signatures*, Lecture Notes in Computer Science (Springer Verlag) 3592, pp. 206 - 215, (Conference TrustBus 2005).

61. Marcin Gomul̄kiewicz, Marek Klonowski, Mirosław Kutylowski: *Onion Routing Based on Universal Re-Encryption Immune against Repetitive Attack*, Lecture Notes in Computer Science (Springer Verlag) 3325, pp. 400 - 410, (Conference WISA 2005).
62. Marcin Gomul̄kiewicz, Marek Klonowski, Mirosław Kutylowski: *Provable Unlinkability Against Traffic Analysis already after $\mathcal{O}(\log(n))$ steps !*, Lecture Notes in Computer Science (Springer Verlag) 3225, pp. 346 - 366, (Conference ISC 2004).
63. Jan Iwanik, Marek Klonowski, Mirosław Kutylowski: *DUO-Onions and Hydra-Onions – failure and adversary resistant onion protocols*, Proceedings of IFIP Conference on Communications and Multimedia Security (Springer Verlag), pp. 1-15, (Conference CMS 2004).
64. Marcin Gomul̄kiewicz, Marek Klonowski, Mirosław Kutylowski: *Rapid mixing and security of Chaum’s visual electronic voting*, Lecture Notes in Computer Science (Springer Verlag) 2808, pp. 135 - 146, (Conference ESORICS 2003).

II. Submitted

65. Marcin Kardas, Marek Klonowski, Piotr Syga: *How to Obfuscate Execution of Protocols in a Single Hop Radio Network*
66. Marek Klonowski, Małgorzata Sulkowska: *Energy-optimal algorithms for computing aggregative functions in random networks* Submitted to Discrete Mathematics & Theoretical Computer Science.
67. Marek Klonowski, Tomasz Strumiński, Małgorzata Sulkowska: *Special Encoding for Irreversible Data Erasing* Submitted to Discrete Mathematics & Theoretical Computer Science.
68. Marek Klonowski, Ania M. Piotrowska : *Information hiding for protocols based on Bloom filters*
69. Marek Klonowski, Michał Koza, Mirosław Kutylowski: *Robust Data Aggregation with Network Diagnostics Using Untrusted Infrastructure*
70. Philip Brandes, Marcin Kardas, Marek Klonowski, Dominik Pająk, Roger Wattenhofer: *Asymptotically Optimal Algorithm for Approximating the Size of a Single-Hop Radio Network*
71. Marek Klonowski, Piotr Syga: *Practical Privacy Preserving Size Approximation*
72. Krzysztof Grining, Marek Klonowski, Piotr Syga: *Practical Fault-Tolerant Data Aggregation*
73. Marek Klonowski, Piotr Syga: *Enhancing Privacy for Ad Hoc Systems with Pre-deployment Key Distribution*

III. Editorship

1. Albert Levi, Özgür Gürbüz, Antonio Maña, Marek Klonowski, Matteo Cesana, Mona Ghassemian, Susana Sargento (Eds.): A special issue of Ad Hoc networks on "Smart solutions for mobility supported distributed and embedded systems", Ad Hoc Networks 15 (Elsevier), ISSN 1570-8705
2. Jacek Cichoń, Maciej Gębala, Marek Klonowski (Eds.): Ad-hoc, Mobile, and Wireless Network - 12th International Conference, ADHOC-NOW 2013, Wrocław, Poland, July 8-10, 2013. Proceedings. Lecture Notes in Computer Science 7960, Springer 2013, ISBN 978-3-642-39246-7.
3. Albert Levi, Mohamad Badra, Matteo Cesana, Mona Ghassemian, Özgür Gürbüz, Nafaâ Jabeur, Marek Klonowski, Antonio Maña, Susana Sargento, Sherali Zeadally (Eds.): 5th International Conference on New Technologies, Mobility and Security, Istanbul, Turkey, NTMS 2012, May 7-10, 2012. IEEE 2012, ISBN 978-1-4673-0229-6.

IV. Non-technical and papers of regional impact

1. Albert Levi, Özgür Gürbüz, Antonio Maña, Marek Klonowski, Matteo Cesana, Mona Ghassemian, Susana Sargento (Eds.): Preface: A special issue of Ad Hoc networks on "Smart solutions for mobility supported distributed and embedded systems", Ad Hoc Networks 15 (Elsevier), pp. 1-3 (2014).
2. Marek Klonowski, Michał Koza, Mirosław Kutylowski: *Security Challenges for Wireless Sensor Networks*, ERCIM News 76, Special theme: The Sensor Web.
3. Marek Klonowski, Mirosław Kutylowski, Bartłomiej Rożański: *Privacy Protection for P2P Publish-Subscribe Networks*, In Security and Protection of Information (University of Defence in Brno), pp. 63-74.
4. Marek Klonowski: *Security problems of systems of extremely weak devices* Annales UMCS Informatica AI XI 3 (2011), pp. 9 - 25.
5. Marek Klonowski: *Ochrona Prywatności w Systemach RFID W Zagadnienia bezpieczeństwa w systemach informacyjnych* Joint work (Wydawnictwa Komunikacji i Łączności), pp. 166-179.
6. Jacek Cichoń, Marek Klonowski, Mirosław Kutylowski: *Urządzenia RFID- bezpieczeństwo czy zagrożenia ?*, In Technologie IT na Dolnym Śląsku. Potencjał i Szanse Rozwoju, pp. 15-20.
7. Marek Klonowski: *Wykorzystanie technik teleinformatycznych dla zwiększenia efektywności służby zdrowia na Dolnym Śląsku*, Dolnośląskie Centrum Studiów Regionalnych, pp. 31-37.
8. Jędrzej Kabarowski, Marek Klonowski, Łukasz Krzywiecki, Mirosław Kutylowski, Anna Lauks: *E-Dolny Śląsk - perspektywy i przeszkody we wdrażaniu nowoczesnych technologii informacyjnych*. Dolnośląskie Centrum Studiów Regionalnych, pp. 49-56.