

COMMENTARY TO HABILITATION THESIS

- [1] Ficek, M.; Pop, T.; Kencl, L.
Active Tracking in Mobile Networks: An in-depth View
Computer Networks. 2013, 57(9), 1936-1954. ISSN 1389-1286.

My contributions. *I obtained funding for and supervised the project, contributed to the paper's conceptualization, method design, and technical framing. I contributed to establishing evaluation methodology, formulating the statements and defining validations, and to writing the paper. (33%)*

- [2] Ficek, M.; Kencl, L.
Inter-Call Mobility Model: A Spatio-temporal Refinement of Call Data Records Using a Gaussian Mixture Model
In: 2012 Proceedings IEEE INFOCOM. Piscataway: IEEE, 2012. p. 469-477. ISSN 0743-166X. ISBN 978-1-4673-0774-1.

My contributions. *I supervised the work, contributed to the paper's conceptualization and objectives definition. I contributed to establishing evaluation methodology, formulating the statements and defining validations, and to writing the paper. (33%)*

- [3] Ficek, M.; Kencl, L.
Spatial Extension of the Reality Mining Dataset
In: The 7th IEEE International Conference on Mobile Ad-hoc and Sensor Systems. New York: IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 2010. pp. 666-673. ISBN 978-1-4244-7489-9.

My contributions. *I supervised the work, contributed to the paper's conceptualization and objectives definition. I contributed to establishing evaluation methodology, formulating the statements and defining validations, and to writing the paper. (33%)*

- [4] Dufková, K.; Le Boudec, J.-Y.; Kencl, L.; Bjelica, M.
Predicting User-Cell Association in Cellular Networks from Tracked Data
In: Mobile Entity Localization and Tracking in GPS-less Environments. Berlin: Springer, 2009. p. 19-33. Lecture Notes in Computer Science. ISSN 0302-9743. ISBN 978-3-642-04378-9.

My contributions. *I initiated the collaboration and motivated the work, contributed to the paper's conceptualization and objectives definition. I contributed to establishing evaluation methodology, formulating the statements and defining validations, and to writing the paper. (33%)*

- [5] Dufková, K.; Bjelica, M.; Moon, B.; Kencl, L.; Le Boudec, J.-Y.
Energy Savings for Cellular Network with Evaluation of Impact on Data Traffic Performance
In: Proceedings of European Wireless Conference. Piscataway: IEEE, 2010. pp. 916-923. ISBN 978-1-4244-5999-5.

My contributions. *I initiated the collaboration and motivated the work, proposing the initial idea of cell association adjustment. I contributed to the paper's conceptualization, objectives definition and technical solution. I contributed to establishing evaluation methodology, formulating the statements and defining validations, and to writing the paper. (33%)*

- [6] Baena Martínez, E.; Ficek, M.; Kencl, L.
Mobility Data Anonymization by Obfuscating the Cellular Network Topology Graph
In: Proceedings of the 2013 IEEE International Conference on Communications (ICC).
Piscataway: IEEE, 2013. pp. 2032-2036. IEEE International Conference on Communications.
ISSN 1550-3607. ISBN 978-1-4673-3122-7.

My contributions. *I initiated the research direction and motivated and supervised the work. I contributed to the paper's conceptualization, objectives definition and technical solution. I contributed to establishing evaluation methodology, formulating the statements and defining validations, and to writing the paper. (33%)*

- [7] Tománek, O.; Kencl, L.
CLAudit: Planetary-scale Cloud Latency Auditing Platform
In: Proceedings of the 2013 IEEE 2nd International Conference on Cloud Networking (CloudNet). Piscataway: IEEE, 2013. p. 138-146. ISBN 978-1-4799-0566-9.

My contributions. *I initiated the research direction and motivated and supervised the work, ensured funding and technological background for the project work, contributed to the paper's conceptualization, objectives definition and technical solution, including implementation architecture. I contributed to establishing evaluation methodology, formulating the statements and defining validations, and to writing the paper. (50%)*

- [8] Tománek, O.; Mulinka, P.; Kencl, L.
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Computer Networks. 2016, 107(1), 104-120. ISSN 1389-1286.

My contributions. *I initiated the research direction and motivated and supervised the work, ensured funding and technological background for the project work, contributed to the paper's conceptualization, objectives definition and technical solution, including implementation architecture. I contributed to establishing evaluation methodology, formulating the statements and defining validations, and to writing the paper. (33%)*

- [9] Uhlíř, V.; Tománek, O.; Kencl, L.
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In: UCC '16 Proceedings of the 9th International Conference on Utility and Cloud Computing.
New York: ACM, 2016. p. 263-268. ISSN 2373-6860. ISBN 978-1-4503-4616-0.

My contributions. *I initiated the research direction and motivated and supervised the work, ensured funding and technological background for the project work, contributed to the paper's conceptualization, objectives definition and technical solution. I contributed to establishing evaluation methodology, formulating the statements and defining validations, and to writing the paper. (33%)*

- [10] Kouba, Z.; Tománek, O.; Kencl, L.
Evaluation of Datacenter Network Topology Influence on Hadoop MapReduce Performance
In: 5th IEEE International Conference on Cloud Networking (Cloudnet). Piscataway: IEEE, 2016. p. 95-100. ISBN 978-1-5090-5093-2.

My contributions. *I initiated the research direction and motivated and supervised the work, ensured funding and technological background for the project work, contributed to the paper's conceptualization, objectives definition and technical solution. I contributed to establishing evaluation methodology, formulating the statements and defining validations, and to writing the paper. (33%)*

[11] Staněk, J.; Kencl, L.

SIP Protector: Defense Architecture Mitigating DDoS Flood Attacks Against SIP Servers

In: Proceedings of the 2012 IEEE International Conference on Communications (ICC 2012).

Piscataway: IEEE, 2012. pp. 6733-6738. ISSN 1550-3607. ISBN 978-1-4577-2053-6.

My contributions. *I initiated the research direction and motivated and supervised the work, ensured funding and experimental data for the project work, contributed to the paper's conceptualization, objectives definition and technical solution. I contributed to establishing evaluation methodology, formulating the statements and defining validations, and to writing the paper. (50%)*

[12] Staněk, J.; Kuthan, J.; Kencl, L.

Characteristics of Real Open SIP-Server Traffic

In: Proceedings, 14th International Conference on Passive and Active Measurement, PAM 2013.

Berlin: Springer, 2013, pp. 187-197. Lecture Notes in Computer Science. ISSN 0302-9743. ISBN 978-3-642-36515-7.

My contributions. *I initiated the research collaboration and helped motivate the work, contributed to the paper's conceptualization and objectives definition. I contributed to establishing evaluation methodology, formulating the statements and defining validations, and to writing the paper. (33%)*

[13] Staněk, J.; Kencl, L.; Kuthan, J.

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In: 2014 IFIP Networking Conference, Proceedings. Piscataway: IEEE, 2014, pp. 1-9. ISBN 9783901882586.

My contributions. *I initiated the research collaboration and helped motivate the work, contributed to the paper's conceptualization, objectives definition and technical solution. I contributed to establishing evaluation methodology, formulating the statements and defining validations, and to writing the paper. (33%)*

[14] Kencl, L.; Loeb, M.

DNA-inspired information concealing: A survey

Computer Science Review. 2010, 4(4), 251-262. ISSN 1574-0137.

My contributions. *I initiated the research collaboration and helped motivate the work, contributed to the paper's conceptualization, objectives definition, application field analysis and technical solution, including formulating algorithmic steps and theoretical proofs. I contributed to establishing evaluation methodology, formulating the statements, defining validations and to writing the paper. (50%)*

[15] Staněk, J.; Kencl, L.; Sorniotti, A.; Androulaki, E.

A Secure Data Deduplication Scheme for Cloud Storage

In: Proceedings of the 18th Financial Cryptography and Data Security conference 2014. Berlin:

Springer, 2014. p. 99-118. Lecture Notes in Computer Science. ISSN 0302-9743. ISBN 978-3-662-45471-8.

My contributions. *I initiated the research collaboration and helped establish funding and motivating the work. I contributed to the paper's conceptualization, objectives definition and technical solution. I contributed to establishing evaluation methodology, formulating the statements and defining validations, and to writing the paper. (25%)*

[16] Staněk, J.; Kencl, L.

Enhanced Secure Thresholded Data Deduplication Scheme for Cloud Storage

IEEE Transactions on Dependable and Secure Computing. 2018,(99), 694-707. ISSN 1545-5971.

My contributions. *I helped motivating the work, drove incremental improvements to research direction and supervised the work. I contributed to the paper's conceptualization, objectives definition and technical solution. I contributed to establishing evaluation methodology, formulating the statements and defining validations, and to writing the paper. (50%)*

[17] Mulinka, P.; Casas, P.; Kencl, L.

Hi-Clust: Unsupervised Analysis of Cloud Latency Measurements Through Hierarchical Clustering

In: Proceedings of the 2018 IEEE 7th International Conference on Cloud Networking (CloudNet). Piscataway: IEEE, 2018. p. 1-7. ISBN 978-1-5386-6831-3.

My contributions. *I initiated the research collaboration and helped establish funding and motivating the work. I contributed to the paper's conceptualization and objectives definition and enabled access to experimental data. I contributed to establishing evaluation methodology and to reviewing the manuscript pre-submission. (33%)*

[18] Mulinka, P.; Casas, P.; Kensuke, F.; Kencl, L.

HUMAN - Hierarchical Clustering for Unsupervised Anomaly Detection & Interpretation

In: 11th International Conference on Networks of the Future (NoF 2020). St. Paul, Minnesota: IEEE, 2020. p. 132-140. ISSN 2377-8652. ISBN 978-1-7281-8055-7.

My contributions. *I initiated the research collaboration and helped establish funding and motivating the work. I contributed to the paper's conceptualization and objectives definition and enabled access to experimental data. I contributed to establishing evaluation methodology and to reviewing the manuscript pre-submission. (25%)*