

## LIST OF PUBLICATIONS

## Summary:

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## Applications developed

**Sahil Ajimera, Igor Khokhlov, Leon Reznik** Sensor Quality Assessment - available at Google Play – see available at Google Play – see

<https://play.google.com/store/apps/details?id=com.dataqualitylab.sensorquality>, ver. 1.0, December 9, 2019

**Igor Khokhlov, Leon Reznik** Smartphone Data Collection Tool, - available at Google Play – see <https://play.google.com/store/apps/details?id=com.dataqualitylab.collectinfo.collectinfo>, ver. 1.11, December 7, 2018

**Igor Khokhlov, Leon Reznik** System Security Evaluation: Cloud version - available at Google Play – see <https://play.google.com/store/apps/details?id=com.igorkh.trustcheck.securitycheckcloud>, ver. 1, November 1, 2018

**Igor Khokhlov, Milan Bhaskar, Leon Reznik** Detector of Unverified Apps - available at Google Play – see [https://play.google.com/store/apps/details?id=dataqualitylab.rit.ver\\_app\\_finder](https://play.google.com/store/apps/details?id=dataqualitylab.rit.ver_app_finder), updated March 12, 2018

**Milan Bhaskar, Igor Khokhlov, Leon Reznik** Unverified App Finder - available at Google Play – see [https://play.google.com/store/apps/details?id=project.afinal.rit.capstone\\_milans\\_app](https://play.google.com/store/apps/details?id=project.afinal.rit.capstone_milans_app), updated March 2, 2018

**Igor Khokhlov, Leon Reznik** System Security Evaluation application - available at Google Play – see <https://play.google.com/store/apps/details?id=com.igorkh.trustcheck.securitycheck>, ver. 1.2, updated January 25, 2018

## Books

[1] **L.Reznik/Ed.** *Advancing Computing and Information Sciences*. RIT Cary Graphic Arts Press, 2005, ISBN 1-933360-05-4

[2] **L.Reznik, V.Kreinovich/Eds.** *Soft Computing in Measurement and Information Acquisition*, Springer Verlag, Heidelberg-New York, 2003, ISBN 3-540-00246-4, 284 pp.

[3] **L.Reznik, V.Dimitrov, J.Kacprzyk/Eds.** *Fuzzy System Design: Social and Engineering Applications*, Physica Verlag, Heidelberg-New York, 1998, ISBN 3-7908-1118-1, 334 pp.

[4] **L.Reznik** *Fuzzy Controllers* Elsevier-Newnes, Oxford-Boston, 1997, ISBN 0-7506-3429-4, 287 pp.

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- [10] **L.Reznik** *General Principles and Purposes of Computational Intelligence in Systems Science and Cybernetics*, [Ed. F. Parra-Luna], In: *Encyclopedia of Life Support Systems*, Developed under the Auspices of the UNESCO, EOLSS Publishers, Oxford, UK, 2003 (available on-line at <http://www.eolss.net/>)
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- [13] **L. Reznik** *What Is Intelligent Measurement?* In: *Computing with Words in Information /Intelligent Systems*, L.A. Zadeh and J.Kacprzyk/Eds. Physica Verlag, Heidelberg – New York, 1999, ISBN 3-7908-1217-X, p.78 - 89
- [14] **L.Reznik** *Fuzzy Controller Design for Different Applications: Evolution, Methods, and Practical Recommendations* In: *Fuzzy System Design: Social and Engineering Applications*, L. Reznik, V.Dimitrov, J.Kacprzyk/Eds. Physica Verlag, Heidelberg- New York, 1998, p.185-201
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- [18] **I. Khokhlov, L. Reznik and S. Chuprov**, "Framework for Integral Data Quality and Security Evaluation in Smartphones" *IEEE Systems Journal*, DOI: 10.1109/JSYST.2020.29853432020,
- [19] **A. Heyman, L.Reznik, M.Negnevitsky, A. Hoffman** *Fuzzy System Design for Security and Environment Control Applications*, *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems*, Vol. 23, Suppl. 1 (December 2015), pp. 43-56
- [20] **K. K. Semenov, L. Reznik, and G. N. Solopchenko** *Fuzzy Intervals Application for Software Metrological Certification in Measurement and Information Systems*, *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems*, Vol. 23, Suppl. 1 (December 2015), pp. 95–104
- [21] **L. Reznik, S.E. Lyshevski** *Data Quality Indicators Composition and Calculus: Engineering and Information Systems Approaches*, *Sensors & Transducers*, Vol. 185, Issue 2, February 2015, pp. 140-148 (also available online at [http://www.sensorsportal.com/HTML/DIGEST/february\\_2015/Vol\\_185/P\\_2612.pdf](http://www.sensorsportal.com/HTML/DIGEST/february_2015/Vol_185/P_2612.pdf))
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- [25] **G.N.Solopchenko, K.K. Semenov, V.Kreinovich and L.Reznik** *Measurement's Result and its Error as Fuzzy Variables: Background and Perspectives*, Key Engineering Materials, vol. 437, May 2010, pp 487-491
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- [27] **L.Reznik and V.Kreinovich** *Fuzzy Models in Measurement*, IEEE Transactions on Fuzzy Systems, vol. 16, No.4, August 2008, pp. 851-862
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- [35] **L.Reznik and A.Little** *Fuzzy Controller Design From A Practitioner's Point Of View - The Review of Methodologies*, Australian Journal of Intelligent Information Processing Systems, 1995, vol.2, No.4, pp.1- 9
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- [43] **Khokhlov I., Reznik L.**, “What is the Value of Data Value in Practical Security Applications”, IEEE/NDIA/INCOSE Systems Security Symposium 2020, Crystal City, Virginia, USA, July 2020 Accepted for publication.
- [44] **Chuprov S., Viksnin I., Kim I., Reznik L., Khokhlov I.**, “Reputation and Trust Models with Data Quality Metrics for Improving Autonomous Vehicles Traffic Security and Safety”,

IEEE/NDIA/INCOSE Systems Security Symposium 2020, Crystal City, Virginia, USA, July 2020  
Accepted for publication.

[45] **Khokhlov I., Reznik L.**, “Knowledge Graph in Data Quality Evaluation for IoT Applications”, 2020 IEEE World Forum on Internet of Things, New Orleans, Louisiana, USA, June 2020. Accepted for publication.

[46] **Chuprov S., Marinenkov E., Viksnin I., Reznik L., Khokhlov I.**, “Image Processing in Autonomous Vehicle Model Positioning and Movement Control”, 2020 IEEE World Forum on Internet of Things, New Orleans, Louisiana, USA, June 2020. Accepted for publication.

[47] **I. Khokhlov, A. Pudage and L. Reznik**, “Sensor selection optimization with genetic algorithms,” *Proc. IEEE Conf. on Sensors*, Montreal, Canada, October 27-30, 2019.

[48] **Khokhlov I., Perez M., Reznik L.**, “Machine Learning in Anomaly Detection: Example of Colluded Applications Attack in Android Devices”, 18th IEEE International Conference on Machine Learning and Applications - ICMLA 2019, Boca Raton, FL, USA, December 16-19, 2019,

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