List of Publications

Marat Zhanikeev, 2021-06-10

Github: https://github.com/maratishe + https://github.com/maratishe + https://maratishe.github.io/ Slideshare: https://is.gd/WbkKZV Google Scholar: https://is.gd/wbkZV Google Scholar: https://is.gd/wbkZV Google Scholar: https://is.gd/wbkZV And the standard of the stan



[1] Books and Bookchapters (newest first, all peer-reviewed)

- [1] <u>M.Zhanikeev</u>, "Converged Information-Centric Spaces based on Wireless Data Hubs", Pervasive Computing: Next Generation Platforms for Intelligent Information-Centric Spaces, ISBN 978-0-12-803663-1, Elsevier, p.195-230, April 2016.
- [2] <u>M.Zhanikeev</u>, "Building IoT Ecosystems from Mobile Clouds at Network Edge", Internet of Things (IoT) in 5G Mobile Technologies, ISBN 978-3-319-30911-8, Springer, p.197-227, April 2016.
- [3] <u>M.Zhanikeev</u>, "Vehicular Clouds based on GroupConnect and Self Organization", Cognitive Vehicular Networks, ISBN 978-1-4987-2192-9, CRC Press, p.169-198, February 2016.
- [4] <u>M.Zhanikeev</u>, "Video Streaming overs Wireless Channels -- 4G and Beyond", Advances in Mobile Computing and Communications: 4G and Beyond, ISBN 978-1-4987-0113-6, CRC Press, p.319-282, February 2016.
- [5] <u>M.Zhanikeev</u>, "Opportunistic Multiconnect with P2P WiFi and Cellular Providers", Advances in Mobile Computing and Communications: 4G and Beyond, ISBN 978-1-4987-0113-6, CRC Press, p.271-318, February 2016.
- [6] <u>M.Zhanikeev</u>, "Circuit Emulation for Big Data Transfers in Clouds", Networking for Big Data, CRC, ISBN 978-1482263497, p.359-392, September 2015.
- [7] <u>M.Zhanikeev</u>, "Streaming Algorithms for Big Data Processing on Multicore", Big Data: Algorithms, Analytics, and Applications, ISBN 978-1-4822-4055-9, CRC, p.215-240, February 2015.
- [8] <u>M.Zhanikeev</u>, "Methods and Algorithms for Fast Hashing in Data Streaming", Cryptography: Algorithms and Implementations Using C++, ISBN 978-1-4822-2890-8, CRC, p.299-334, November 2014.
- [9] <u>M.Zhanikeev</u>, "Multi-Source Stream Aggregation in the Cloud", Advanced Content Delivery, Streaming, and Cloud Services, ISBN 978-1-118-57521-5, Wiley, p.219-242, September 2014.
- [10] Y.Tanaka, <u>M.Zhanikeev</u>, "Active Network Measurement: Theory, Methods, and Tools", ITU Association of Japan, ISBN 978-4916128072, Tokyo, June 2009.

[2] Journal Papers (newest first, all peer-reviewed)

- [1] <u>M.Zhanikeev</u>, "A Method for Secure Wireless Grouping at Network Edge", Wireless Personal Communications, (in print). (IF:1.2)
- [2] <u>M.Zhanikeev</u>, "On a Formal Specification of Big Data Processing Suitable for Distributed Storage and Streaming", International Journal of Innovation Management (IJIM), vol.V8N1, p.43-46, June 2020. (SJR:1.3)
- [3] <u>M.Zhanikeev</u>, "The Last Man Standing Technique for Proof-of-Location in IoT Infrastructures at Network Edge", Wireless Communications and Mobile Computing, article no.7317019, 12 pages, June 2019. (IF:0.9)
- [4] <u>M.Zhanikeev</u>, "Penalty Migration as a Performance Signaling Method in Energy-Efficient Clouds", Annals of Telecommunications, vol.72, p.1-13, May 2017. (IF:0.722)
- [5] <u>M.Zhanikeev</u>, "Improving Performance in Dense Wireless Spaces by Controlling Bulk Traffic", Mobile Information Systems (MIS), vol.2017, article no.8013971, p.1-11, October 2016. (IF:1.462)

- [6] <u>M.Zhanikeev</u>, "Fog Caching and a Trace-Based Analysis of its Offload Effect", International Journal of Information Technologies and Systems Approach (IJITSA), vol.10(2), p.1-19, July 2016. (IF:0.39)
- [7] <u>M.Zhanikeev</u>, "Performance Management of Cloud Populations via Cloud Probing", IPSJ Journal of Information Processing, vol.24, no.1, p.99-108, January 2016. (SJR:0.3)
- [8] <u>M.Zhanikeev</u>, "DiffHub: An Efficient Cloud Sync Technology based on Binary Diffs", IPSJ Journal of Information Processing, vol.23, no.5, p.683-692, November 2015. (SJR:0.3)
- [9] <u>M.Zhanikeev</u>, "A Cloud Visitation Platform to Facilitate Cloud Federation and Fog Computing", IEEE Computer, vol.48, issue 5, p.80-83, May 2015. (IF:1.438)
- [10] <u>M.Zhanikeev</u>, "How variable bitrate video formats can help P2P streaming boost its reliability and scale", Springer Journal of Electronic Commerce Research, vol.15(1), p.22-47, February 2015. (IF:1.632)
- [11] <u>M.Zhanikeev</u>, "A holistic community-based architecture for measuring end-to-end QoS at data centres", Inderscience International Journal of Computational Science and Engineering (IJCSE), vol.10, no.3, p.315-324, January 2015. (IF:0.59)
- [12] M.Zhanikeev, Y.Tanaka, "A Graphical Method for Detection of Flash Crowds in Traffic", Springer Telecommunication Systems Journal, vol.57, issue 1, p.91-105, September 2014. (IF:0.705)
- [13] <u>M.Zhanikeev</u>, "A lock-free shared memory design for high-throughput multicore packet traffic capture", International Journal of Network Management (IJNM), vol.24, p.304-317, June 2014. (IF:0.517)
- [14] <u>M.Zhanikeev</u>, "A Method for Reliable P2P Video Streaming using Variable Bitrate Video Formats", JSSST Journal of Computer Software, vol.31, p.234-245, May 2014.
- [15] <u>M.Zhanikeev</u>, "Searching for the Most Cost Effective Method in Browser-Based Visualizations: Screen Size, Pinch to Scale, Search and Browse", The Journal of the Institute of Image Electronics Engineers of Japan (IIEEJ), vol.43, no.1, February 2014.
- [16] M.Zhanikeev, "On How Smart Cities Can Improve Social Utility of Their Citizens' Commutes", IPSJ Journal of Information Processing, vol.22, no.2, p.253-262, April 2014. (SJR:0.3)
- [17] <u>M.Zhanikeev</u>, "Optimizing Virtual Machine Migration for Energy-Efficient Clouds", IEICE Transactions on Communications, vol.E97-B, no.2, p.450-458, February 2014. (IF:0.252)
- [18] <u>M.Zhanikeev</u>, "Experiments with application throughput in a browser with full HTML5 support", IEICE Communications Express, vol.2, no.5, p.167-172, May 2013. (IF:0.320)
- [19] J.Hong, C.Hong, Y.Kiriha, <u>M.Zhanikeev</u>, "Managing Clouds, Smart Networks and Services: A Report on APNOMS 2011", Journal of Network and Systems Management, vol.20, issue 1, p.134-142, March 2013. (IF:0.796)
- [20] <u>M.Zhanikeev</u>, Y.Tanaka, "Modelling Network Performance of End Hosts", IEICE Transactions on Information and Systems, vol.E95-D, no.7, p.1872-1881, July 2012. (IF:0.245)
- [21] <u>M.Zhanikeev</u>, Y.Tanaka, "A Framework for Detection of Traffic Anomalies Based on IP Aggregation", IEICE Transactions on Information and Systems, vol.E92-D, no.1, p.16-23, January 2009. (IF:0.39)

[3] International Conference Proceedings (newest first, all peer-reviewed)

- [1] N.Kuge, <u>M.Zhanikeev</u>, "Educational Content Delivery in Mixed Online/Offline University Campuses", Future Technologies Conference (FTC) (accepted, in print), October 2021.
- [2] <u>M.Zhanikeev</u>, "Modeling Components for Cut-Through Performance Analysis of Network Switches", 16th IEEE International Conference on Network and Service Management (CNSM), November 2020.
- [3] <u>M.Zhanikeev</u>, "A jQuery-like Platform for Standardized Dataset Processing Logic", International Conference on Innovation and Management, Sapporo, Japan, February 2020.
- [4] <u>M.Zhanikeev</u>, "Relative Wireless Positioning for Multiple Client Devices Using Delta Triangulation", 9th International Conference on Electronics, Communications, and Networks (CECNet) and Frontiers in Artificial Intelligence and Applications, vol.320, IOS Press, October 2019.
- [5] <u>M.Zhanikeev</u>, "A Method for Secure Wireless Grouping at Network Edge", 4th IEEE Cyber Science and Technology Congress (CyberSciTech), Fukuoka, Japan, August 2019.
- [6] M.Zhanikeev, "Subflow Cut-Through Optimization with Migration using N-by-M Circuit Switchboard", 7th IEEE International Conference on Cloud Networking (CloudNet), Tokyo, Japan, October 2018.
- [7] <u>M.Zhanikeev</u>, "Ultrasound Relative Positioning for IoT Devices in Dense Wireless Spaces", 24th IEEE International Conference on Embedded and Real-Time Computing Systems and Applications

- (RTCSA), Hakodate, Japan, August 2018.
- [8] <u>M.Zhanikeev</u>, "Towards a Packet Traffic Genome Project as a Method for Realtime Sub-Flow Traffic Analysis", 42nd IEEE International Conference on Computers, Software, and Applications (COMPSAC), Tokyo, Japan, July 2018.
- [9] M.Zhanikeev, "What if We Atomize Student Data and Apps and Put Them on Docker Containers?", IBM Cloud Academy Conference, Tokyo, Japan, May 2018.
- [10] M.Zhanikeev, "Theory and Practice for Fog Infrastructure based on Standalone Cloudified IoT Boxes", IEEE TRON Symposium (TRONSHOW), December 2017.
- [11] <u>M.Zhanikeev</u>, "Large-Scale Crowdsourcing by Vehicular Data Packets in a Sparse Roadside Infrastructure", 10th IEEE Conference on Service-Oriented Computing and Applications (SOCA), Kanazawa, Japan, November 2017.
- [12] M.Zhanikeev, "The Switchboard Optimization Problem and Heuristics for Cut-Through Networking", The 23rd IEEE International Symposium on Local and Metropolitan Area Networks (LANMAN), Osaka, Japan, June 2017.
- [13] M.Zhanikeev, "Optimization Strategies for the Crowdsourced Processing of Large Tasks in the Cloud", 1st EAI International Conference on Big Data and Cyber-Physical-Social Computing (BIGDATACPS), Nagasaki, Japan, November 2016.
- [14] M.Zhanikeev, "Volume and Irregularity Effects on Massively Multicore Packet Processors", Network Operations and Management Symposium (APNOMS), Kanazawa, Japan, October 2016.
- [15] M.Zhanikeev, "Fog Cloud Caching at Network Edge via Local Hardware Awareness Spaces", 36th IEEE International Conference on Distributed Computing Systems (ICDCS 2016), Hakodate, Japan, p.184-188, June 2016.
- [16] M.Zhanikeev, "How to Build Infrastructureless Information-Centric Wireless Spaces using Autonomous Hubs", 2nd International Conference on IoT in Urban Space (Urb-IoT), Tokyo, Japan, p.102-104, May 2016.
- [17] M.Zhanikeev, "Multidimentional Classification Automation with Human Interface based on Metromaps", 4th International Congress on Advanced Applied Infomatics, Okayama, Japan, p.534-539, July 2015.
- [18] M.Zhanikeev, "A New VNE Method for More Responsive Networking in Many-to-Many Groups", 7th International Conference on Ubiquitous and Future Networks (ICUFN), Sapporo, Japan, p.438-443, July 2015.
- [19] <u>M.Zhanikeev</u>, "A Cloud Visitation Platform for Federated Services at Network Edge", CISSE Online Conference, December 2014.
- [20] M.Zhanikeev, "On Context Management Using Metro Maps", 7th IEEE International Conference on Service Oriented Computing and Applications (SOCA), Matsue, Japan, p.309-313, November 2014.
- [21] <u>M.Zhanikeev</u>, "Replayable BigData for Multicore Processing and Statistically Rigid Sketching", Internet Conference, Hiroshima, Japan, November 2014.
- [22] M.Zhanikeev, "Coins in Cloud Drives Can Use OAuth for Micropayments and Resource Metering Alike", 9th International Conference on Future Internet Technologies (CFI), Tokyo, Japan, June 2014.
- [23] M.Zhanikeev, "A Software Design and Algorithms for Multicore Capture in Data Center Forensics", 9th ACM Symposium on Information, Computer, and Communication Security Workshops (ASIACCS/SFCS), Okayama, Japan, p.11-18, June 2014.
- [24] M.Zhanikeev, "A New Practical Design for Browsable Over-the-Network Indexing", International Conference on Information Science, Electronics and Electrical Engineering (ISEEE), Sapporo, Japan, p.1686-1690, April 2014.
- [25] M.Zhanikeev, "Virtual Wireless User: A Practical Design for Parallel MultiConnect Using WiFi Direct in Group Communication", 10th International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous), Springer LNICS vol.131, Tokyo, Japan, p.782-793, December 2013. (SJR:0.2)
- [26] M.Zhanikeev, "A Method for Extremely Scalable and Low Demand Live P2P Streaming based on Variable Bitrate", 1st International Symposium on Computing and Networking (CANDAR, former ICNC), Matuyama, Japan, p.461-467, December 2013.
- [27] M.Zhanikeev, "End-to-End Network Performance Estimation Using Signal Complexity", International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS), Okayama, Japan, p.73-78, November 2013.

- [28] <u>M.Zhanikeev</u>, H.Watanabe, "A Model and Simulation of EV Use in Environments with V2H and Battery Replacement Infrastructure", ITS World Congress, Tokyo, Japan, October 2013.
- [29] M.Zhanikeev, "Experiments with Practical On-Demand Multi-Core Packet Capture", 15th Asia-Pacific Network Operations and Management Symposium (APNOMS), Nagasaki, Japan, p.1-3, September 2013.
- [30] M.Zhanikeev, "A Home Gateway Box with Meter, Probe and L2 Qo\$ Policy Edge", IEEE Conference on Computers, Software and Applications (COMPSAC), Kyoto, Japan, p.550-555, July 2013.
- [31] M.Zhanikeev, "A Practical Software Model for Content Aggregation in Browsers using Recent Advances in HTML5", IEEE Conference on Computers, Software and Applications (COMPSAC), Kyoto, Japan, p.151-156, July 2013.
- [32] M.Zhanikeev, R.Yamamoto, K.Yamori, Y.Tanaka, "A Method for Side Splitting of Packet Traces", 13th Asia-Pacific Network Operation and Management Symposium (APNOMS), Taipei, Taiwan, p.1-7, September 2011.
- [33] J.O.Song, <u>M.Zhanikeev</u>, O.Yoshie, Y.Tanaka, "An Efficient Model for Remote Display Service of Cloud Computing", International Workshop on Smart Info-Media Systems in Asia (SISA), Manila, Philippines, September 2010.
- [34] M.Zhanikeev, Y.Tanaka, "Application of Graph Theory to Clustering in Delay Space", 8th Asia-Pacific Symposium on Information and Telecommunication Technologies (APSITT), Paper No.B-7-2, Kuching, Malaysia, p.1-6, June 2010.
- [35] D.P.Van, M.Zhanikeev, Y.Tanaka, "Traffic Trace Engineering", Management Enabling the Future Internet for Changing Business and New Computing Services, Springer LNCS vol.5787, Jeju, Korea, p.1-10, September 2009. (SJR:0.3)
- [36] M.Zhanikeev, Y.Tanaka, "Lightweight Traffic Monitoring and Analysis Using Video Compression Techniques", Management Enabling the Future Internet for Changing Business and New Computing Services, Springer LNCS vol.5787, Jeju, Korea, p.92-101, September 2009. (SJR:0.3)
- [37] M.Randriamananjara, <u>M.Zhanikeev</u>, Y.Tanaka, "Estimating Throughput Reliability on Long End-to-End Paths", 12th Asia-Pacific Network Operations and Management Symposium (APNOMS), Paper No. 12-1, Jeju, Korea, September 2009. (SJR:0.3)
- [38] M.Yap, M.Zhanikeev, Y.Tanaka, "A Validity Tester for Active Measurement Tools", 11th International Conference on Advanced Communication Technology (ICACT), Phoenix Park, Korea, p.305-310, February 2009.
- [39] D.Van, M.Zhanikeev, Y.Tanaka, "Effective High Speed Traffic Replay Based on IP Space", 11th International Conference on Advanced Communication Technology (ICACT), Phoenix Park, Korea, p.151-156, February 2009.
- [40] M.Zhanikeev, Y.Tanaka, T.Ogishi, "Probing Based Topology Inference for Large Scale Community Networks", Management of Convergence Networks and Services, Springer LNCS vol.5297, Seoul, Korea, p.92-101, February 2009. (SJR:0.3)
- [41] E.Ishikawa, S.Xu, <u>M.Zhanikeev</u>, Y.Tanaka, "Selection of FDL Slot Length in Optical Packet Switching Networks with Fibre Delay Lines", 7th Asia-Pacific Symposium on Information and Telecommunication Technologies (APSITT), Bandos, Maldives, p.214-219, April 2008.
- [42] M.Zhanikeev, Y.Tanaka, "Modelling and Analysis of End-to-End Network Performance", 7th Asia-Pacific Symposium on Information and Telecommunication Technologies (APSITT), Bandos, Maldives, p.141-146, April 2008.
- [43] T.Q.Le, <u>M.Zhanikeev</u>, Y.Tanaka, "Detection and Identification of Neptune Attacks and Flash Crowds", Management of Convergence Networks and Services, Springer LNCS vol.4773, Busan, Korea, p.571-574, September 2007. (SJR:0.3)
- [44] M.Yap, <u>M.Zhanikeev</u>, Y.Tanaka, "Point of Reference in Perception of Network Performance by Active Probing", Management of Convergence Networks and Services, Springer LNCS vol.4773, Busan, Korea, p.205-214, September 2007. (SJR:0.3)
- [45] M.Zhanikeev, Y.Tanaka, "Quantitative Analysis of Temporal Patterns in Loosely Coupled Active Measurement Results", Management of Convergence Networks and Services, Springer LNCS vol.4773, Busan, Korea, p.415-424, September 2007. (SJR:0.3)
- [46] T.Q.Le, <u>M.Zhanikeev</u>, Y.Tanaka, "Methods of Distinguishing Flash Crowds from Spoofed DoS Attacks", 3rd EuroNGI Conference on Next Generation Internet Networks (NGI), Trondheim, Norway, p.167-173, May 2007.
- [47] T.Q.Le, M.Zhanikeev, Y.Tanaka, "Anomaly Identification Based on Flow Analysis", IEEE TENCON (Region 10 Conference), Hong Kong, China, Paper No.SC1.3, 4 pages, November 2006.

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- [49] M.Zhanikeev, Y.Tanaka, "Temporal Patterns in Size and Rate of Traffic Flows", 12th International Telecommunications Network Strategy and Planning Symposium (Networks), New Delhi, India, Technical Session 4, 6 pages, November 2006.
- [50] W.Tan, M.Zhanikeev, Y.Tanaka, "Rate-Based and Gap-Based Available Bandwidth Estimation Techniques in Cross-Traffic Context", Management of Convergence Networks and Services, Springer LNCS vol.4238, Busan, Korea, p.73-81, September 2006. (SJR:0.3)
- [51] M.Zhanikeev, Y.Tanaka, "Temporal Patterns and Properties in Multiple-Flow Interactions", Management of Convergence Networks and Services, Springer LNCS vol.4238, Busan, Korea, p.92-101, September 2006. (SJR:0.3)
- [52] T.Q.Le, <u>M.Zhanikeev</u>, Y.Tanaka, "Detecting and Identifying Network Anomalies by Component Analysis", Management of Convergence Networks and Services, Springer LNCS vol.4238, Busan, Korea, p.501-504, September 2006. (SJR:0.3)
- [53] M.Zhanikeev, S.Xu, Y.Tanaka, "Active Performance Measurement for IP over All-Optical Networks", 2nd IEEE and IFIP International Conference in Central Asia on Internet (ICI), Tashkent, Uzbekistan, Session 7, 5 pages, September 2006.
- [54] M.Zhanikeev, Y.Tanaka, "A Testbed for Agent-Based Multi-Purpose Extensible Active Measurement", 2nd International IEEE/Create-Net Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities (TridentCom), Barcelona, Spain, Track 2, Session 4, 9 pages, March 2006.
- [55] M.Zhanikeev, J.McKeown, Y.Tanaka, "Data Sources for Proactive Network Management", 8th Asia-Pacific Network Operations and Management Symposium (APNOMS), Okinawa, Japan, p.410-421, September 2005.
- [56] M.Zhanikeev, Y.Tanaka, "Towards the Improvement of Performance Anomaly Prediction", 1st IEEE and IFIP International Conference in Central Asia on Internet (ICI), Bishkek, Kyrgyz Republic, Session 7, 5 pages, September 2005.
- [57] M.Zhanikeev, Y.Tanaka, "Network Performance Optimization through Measurement", International Network Optimization Conference (INOC), Lisbon, Portugal, p.265-272, March 2005.
- [58] M.Zhanikeev, Y.Tanaka, "Network Management Using Active Probing", 12th International Conference on Telecommunication Systems, Modeling and Analysis (ICTSM), Monterey, USA, p.236-245, July 2004.

Apart from the above, I omitted <u>60 local technical conference</u>, <u>108 local technical meeting</u> presentations, and <u>4 invited</u> speeches.