

Kirill Krinkin



- Associated Professor at St.Petersburg Electrotechnical University (<http://eltech.ru>), acting head of Software Engineering Department
- Head of Open Source and Linux Lab (<http://osll.ru>)

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Education

2004, PhD in computer science. Thesis about constructing of routing algorithms for dynamic networks in case significant data incompleteness. Saint-Petersburg State Electrotechnical University(www.eltech.ru).

2000, Engineering Degree. Graduate work is about composite windows driver model for DAC/ADC devices.
Komsomolsk-na-Amure State Technical University (www.knastu.ru)

Professional communities

- Member of IEEE
- Member of ACM
- Member of Advisory Board of FRUCT
- IARIA SMART Conference Technical Program Committee
- ruSMART Conference Technical Program Committee
- SECR'2015 Technical Program Committee

Research interests

- Location Based Services
- Localization and Mapping in Robotics (SLAM)
- Virtualization technologies
- Wireless networks and routing algorithms

Last teaching activities

- *Since 2000, Computer networks*
Saint-Petersburg State Electrotechnical University
The course provides theoretical information about IP networks fundamentals, including OSI network stack model, each level protocols overview, TCP/IP and UDP/IP protocols in depth, routing algorithms, socket concept, Quick overview of interprocess communication mechanisms in different OS (unix, windows); practical part includes mastering with raw/user sockets, different protocols, client-

servers application modeling.

- *Since 2008. Storage Technologies Foundations Saint-Petersburg State Elechrotechnical University*
This course is about storage systems and algorithms fundamentals. It contains theoretical data about memory types, storage devices construction, architecture of enterprise storage systems. Data protection algorithms and distributed data management are being considered.
- *Since 2009. Qt for GUI development Saint-Petersburg State Elechrotechnical University*
This course aims to develop practical experience with Qt programming. Theoretical part is considering GUI architecture, memory management, meta-object extensions of C++. Practical exercises contain set of small individual tasks which help to understand one separated aspect. Graduate work is full-functional application.
- *Since 2007. High performance computing and parallel algorithms*
This course is targeted for MSc students and aims putting together modern approaches for high performance data processing. The main focus of this course is thread and process concepts in different programming environment, cluster and grid calculations, inter-process communication implementations, message passing interface (MPI).

Last professional activities

- *Since 2010. Qt and Mobile development trainings*
Qt and mobile development training around the Russia (Pertozavodsk, Nizhny Novgorod, Novosibirsk, Saint-Petersburg, Moscow) Also Qt training in India Mysore in 2010. This trainings are targeted on Beginners and professional development. Usually participants listen for theoretical basics, have lots of practical exercises and doing course project with publication in OVI store.
- *Since 2008. Open Source and Linux Lab (osll.ru)*
The Laboratory is based in Saint-Petersburg with support of Finnish-Russian University Cooperation Program (fruct.org). The main goal of this laboratory is increase educational and scientific activities in ITC domain. Our approach is connecting university professors and students with real industry players. That type of collaboration allows do scientific researches on the front burner areas with industry support.

Selected conferences participation and publications

- Huletski A., Kartashov D., **Krinkin K.** The Artificial Landmark Design for Mobile Robots Localization and Mapping // Proceedings of the 17th Conference of Open Innovations Association FRUCT Yaroslavl, Russia, 20-24 April 2015. Publisher: ITMO University, Saint-Petersburg, Russia, ISSN 2305-7254, ISBN 978-5-7577-0493-7 Pp. 56-61
- **K.V.Krinkin**, K.G. Yudenok. Performance Analysis of a “Smart Space” Integration Agent with a LBS Platform. Symposium Proceedings of 2nd International Scientific Symposium “Sense. Enable. SPITSE.”, St. Peterburg Electrotechnical University “LETI”, St. Peterburg, 2015, pp. 199-202
- Huletski A., Kartashov D., **Krinkin K.** Fast artificial landmark detection for indoor mobile robots — Computer Science and Information Systems (FedCSIS), 2015 Federated Conference on — 13-16 Sept. 2015, Lodz Poland, DOI: 10.15439/2015F232
- Huletski A., Kartashov D., **Krinkin K.** Evaluation of the Modern Visual SLAM Methods — AINL-ISMW FRUCT Conference Proceedings, November 2015 Saint-Petersburg, Russia.

- D. Korzun, I. Galov, A. Kashevnik, N. Shilov, K. Krinkin, Y. Korolev. Integration of Smart-M3 Applications: Blogging in Smart Conference // 11th International Conference on Next Generation Wired/Wireless Advanced Networking. Saint-Petersburg 23-25 August 2011.
- N. Amelichev, M. Krinkin, K. Krinkin. Behavior of Network Applications during Seamless 3G/WLAN Handover // 11th International Conference on Next Generation Wired/Wireless Advanced Networking. Saint-Petersburg 23-25 August 2011.
- MAEMO-based Scalable Platform for Construction of User-driven Social Location Based Services. Demo at IEEE CCNC 2010, January 9-12, 2010, Las Vegas, USA
- Prakash, S.P.Shiva ; Nagabhushan, T.N. ; Krinkin, Kirill Energy Optimized Path Selection in Cluster Based Routing for Wireless Mesh Network Computational Intelligence and Networks (CINE) 2015
- Kirill Krinkin and Kirill Yudenok Geo-Coded Environment for Integrated Smart Systems — in The Thirteenth International Conference on Networks (ICN 2014), Nice, France, 23-27 February 2014, ISSN: 2308-4413, pp. 215-220
- Implementation of IPv4 Reflection Scheme for Linux-Based Storage Systems / Kirill Krinkin, Mike Krinkin, Internet of Things, Smart Spaces, and Next Generation Networks and Systems Lecture Notes in Computer Science ISSN 0302-9743, Ч. 8638, 2014, С. 567-576
- Krinkin K. Ecalo A, Yanovsky V. Adaptive routing algorithms for dynamic computer systems with routing data incompleteness. Monograph. SPb.: Publisher SPbETU, 2007 p. 116