Kirill Krinkin

Kirill Krinkin is an Adjunct Professor, Head Software Engineering and Computer applications Department in Saint Petersburg State Electrotechnical University "LETI", Director of International Innovation Institute on Artificial Intelligence, Cybersecurity, and Communications (Popov Institute). He is a professional member of IEEE, ACM, Robotics, and Automation Society. For the last more than twenty years, Kirill has been doing research and development with international companies and Universities in Software Engineering, Autonomous Mobile Robots, and related domains. Kirill Krinkin is an Author and co-author of more than 100 technical papers. He is actively giving lectures in universities on Mobile Robotics and operating systems development. He is an organizer of many hands-on STEM schools in Russia and Europe. He is a supervisor of the student team in Artificial Intelligence driving Olympics Challenge – a benchmark the state of the art of artificial intelligence in autonomous driving technologies in standardized simulation and hardware environments for tasks related to multi-sensory perception and embodied AI. His team took the 1st place twice in this challenge in 2019 at ICRA2019 and NeuroIPS2019 conferences.

Integration AI to a society. Threats, benefits, challenges

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Abstract

Modern AI applications give us many benefits in an immense amount of domains. In many cases the performance of AI systems significantly overtake human abilities. Technologies grow much faster than society is able to seamlessly adapt them. There are many problems and contradictions which are hindering wide applications of new kind of systems. A few examples: personal data privacy conflicts to data availability for machine learning algorithms; absence of fully interpretable AI systems based on machine learning; the lack of standards allowing produce reliable AI products; uncertainty with responsibility transferring from human to autonomous systems like self driving cars; rapid division of labour system transformation causes vanishing some professions and creating new ones. The main threats, benefits and challenges of AI systems will be summarized and modern approaches to solving existing problems will be discussed