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Theory of gyroscopic effect for rotating objects

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As AI continues to progress, one of the challenges we face is to involve robotics to be automated the tasks that are repetitive, dangerous, or vulnerable to human error. However, automation without intelligence creates a system that cannot respond to variables, new environments, or dynamic requirements. So AI provides a perfect platform to develop intelligent bots. By adding cognitive services to the bot, we can make our bot smart—with capabilities like language understanding, image recognition, text recognition, translation, and more. The idea is combining AI with robotics creates smarter autonomous systems. With machine learning, image recognition, cognitive services, and more robots can learn and respond to requirements, beyond simple commands. Intelligent robotics uses AI to increase collaboration between people and devices. So the great deal of our mission is to let AI enables the next generation of robots to adapt to dynamic situations and communicate naturally with people. Therefore, we have to keep on infusing advanced robotics with AI enables the next generation of robotics to be collaborative, assistive, and cognitive with societies and people.

Biography

Dr. Ryspek Usubamatov studied Mechanical and Manufacturing Engineering at Bauman Moscow State Technical University that graduated as a professional engineer in 1966 and received his Ph.D. in 1972 at the same university. After several years of postdoctoral research, he obtained the degree of Dr. Tech. Sc at the Kyrgyzstan Academy of Sciences. He has published more than 400 research manuscripts in reputed journals, 8 books, 30 brochures, and 60 patents of inventions. His fundamental theories presented in the books: -R Usubamatov, Productivity Theory for Industrial Engineering, Taylor & Francis, 2018, London, New York, Boca Raton.

-R Usubamatov, Theory of Gyroscopic Effects for Rotating Objects, 2nd ed. Springer, Cham, Switzerland, 2022. He is member of the several international scientific and engineering societies and Editorial Board Member of the ten international journals. Currently, he is a part-time Professor of Kyrgyz State Technical University after I. Razzakov, Bishkek, Kyrgyzstan

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