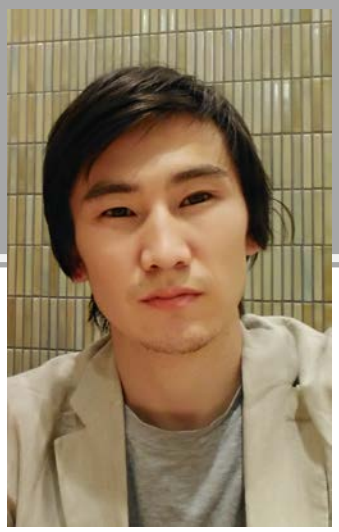
Zhanat KAPPASSOV

Tel. : **+7 701 501 5756**
Email: zhkappassov@nu.edu.kz



Information

Highest Degree: **PhD**, ISIR, UPMC, Paris, France, 2017
Research Interests: **Tactile Robotics**
Languages: Kazakh, Russian - bilingual,
English, Français

Education

Dec. 2013 – March 2017 **PhD** in robotics
University of Pierre and Marie Curie, Paris, France
Thesis: *Touch driven dexterous robot arm control.*

Sep. 2006 – May 2011 **Engineer**
Tomsk State University of Control Systems and Radioelectronics, Tomsk, Russia.
Thesis: *DC/AC inverter.*

Professional Competencies

Robotic manipulation and control, Robot perception,
3D printing,
Power Electronics,
ROS, LINUX, GIT, Gazebo, ODE, Open-CV, MathCAD 14, Matlab2011b, C++,
SolidWorks 2015, LabVIEW,
Latex

Experience

2017 – now	Postdoctoral researcher of robotics at Nazarbayev University
2016	Invited researcher at the Université Pascal, France
2015	Invited researcher at Key State Research Laboratory of China, Shengyang, China
2011 – 2013	Teaching Assistant at Nazarbayev University
2011 – 2011	Engineer at Power Systems Research Institute, Tomsk, Russia
2010	Internship in Taiwan at ITRI. www.itri.org.tw Supervisor: Dr. Yoshihiro Konishi
2009 – 2010	Technician at TUSUR, Tomsk, Russia

Awards and Recognition

2016	TOYOTA Student Participation Award (ISER2016)
2012	Youth Research Grant, Chevron
2011	Best graduate student of Tomsk city
2009 – 2011	Excellent student researcher, Activist student researcher Tomsk

Workshops

2015 – Shadow Robot company, London, UK

2012 – National Instruments, Moscow, Russia.

2009 – NURSAT telecommunication company, Almaty, Kazakhstan.

2007 – 1C Predpriyatie 8.0, Tomsk, Russia.

Academic Service

Reviewer for Robotics and Automation Letters (RA-L), IROS, ICRA, Transactions on Mechatronics, Journal Sensors and Actuators

Publications

- Z. Kappassov, J. Corrales, V. Perdereau, "Touch driven controller and tactile features for physical interactions", *Autonomous Robots*, 2018 (submitted)

- Z. Kappassov, J. Corrales, V. Perdereau, "Simulation of Tactile Sensing Arrays for Touch-Driven Robot Hands in Physical Interaction Tasks", *IEEE IROS*, 2018 (submitted)

- Z. Kappassov, D. Baimukashev, S. Salakchinov, O. Adiyatov, Y. Massalin, H. A. Varol, "A Series Elastic Tactile Sensing Array for Tactile Exploration of Deformable and Rigid Objects", *IEEE IROS*, 2018 (submitted)

- Z. Kappassov, Y. Massalin, Jose Sanchez, Juan-Antonio Corrales Ramon, and Youcef Mezouar, "Vibro-Tactile Data Set of squeezed granular objects", *International Symposium on Experimental Robotics*, 2018 (submitted)

- Z. Kappassov, Z. Kuanyshuly, A. Aubakirov, H.A. Varol, "Multi-wavelength optical tactile sensor for physical robot interactions", *Sensors*, 2018 (in the process, not submitted).

- A. Mazhitov, A. Adilkhanov, O. Adiyatov, and Z. Kappassov, "Redundant Planar Manipulator with Haptic Feedback", *ROSCon*, 2018.

- Z. Kappassov, J. Corrales, V. Perdereau, "Tactile sensing in dexterous robot hands—Review", *RAS*, 2015

- Z. Kappassov, J. Corrales, V. Perdereau, "Touch Driven Robot Arm Control via Tactile Servo", ISER (Springer Tracts in Advanced Robotics), Japan, 2016.

- A. Vasquez, Z. Kappassov, V. Perdereau, "In-hand Object Shape Identification Using Invariant Proprioceptive Signatures", *in Proc. IEEE IROS*, 2016

- Z. Kappassov et al. "3D printed robot hand", *ICMA*, 2013

Research Grant

- Social Policy Grant "Robotic Artificial Tactile Perception", 10kUSD was received and accomplished. Three BS and three MS students have been involved in the project.

Teaching

- Graduation project advisor of three Senior Robotics students
- Instructor of laboratory sessions of ROBT201 Electrical Circuits
- Instructor of laboratory sessions of ROBT206 Microcontrollers