



## SPECIAL SESSION SS01

**2020 IEEE 19th International Power Electronics and Motion Control Conference (IEEE-PEMC 2020)** will include Special Sessions, which are organized on highly specialized topics within conference scope that were not included in the previous editions of the conference. The organizers of those sessions must observe the scope of the conference and submit session proposal to the Conference secretariat for acceptance. Please provide data of the session included in the form below. At least one (and max. two) session organizer is required to provide contact data and short biography.

### Session details:

<b>Session title: <u>Mobile Robotics</u></b>	
<b>Session description (session scope, novelty, goals; 100-200 words):</b> The development of modern mobile robotic technologies is a matter of different disciplines with constantly augmenting application in various maintenance. Rapid development of intelligent control technics and sensors has brought also changes in this field of robotics. To overcome traffic and environment issues mobile robotics use a number of sensors for vision and navigation system, actuators to control mechanical systems and computers to process the data.	<b>Keywords, topics:</b> Autonomous systems, Mobile robots, Robot control, Sensors

### Organizer(s) details:

<b>First (main) organizer (title, name and surname):</b> Prof. Anton Rassõlkin	
E-mail: <a href="mailto:anton.rassolkin@taltech.ee">anton.rassolkin@taltech.ee</a>	Affiliation: Tallinn University of Technology, Tallinn, Estonia
<b>Short bio:</b> Anton Rassõlkin is holding position of professor in Mechatronics at the Tallinn University of Technology (TalTech), Department of Electrical Power Engineering and Mechatronics. The main research interests are mechatronics and electrical drives, particularly for electric transportation, as well as autonomous vehicles.	
<b>Second (optional) organizer (title, name and surname):</b> Prof. Galina L. Demidova	
E-mail: <a href="mailto:demidova@itmo.ru">demidova@itmo.ru</a>	Affiliation: ITMO University, St. Petersburg, Russia
<b>Short bio:</b> Galina L. Demidova is an Associate Professor at the Faculty of Control Systems and Robotics at ITMO University. Her current research interests include adaptive control, fuzzy logic control, motion control, automatic control, fuzzy neural networks, hybrid intelligent systems, genetic algorithms, electromechanical systems.	

#### Conference secretariat:

IEEE-PEMC2020  
 Department of Power Electronics,  
 Electrical Drives and Robotics  
 B. Krzywoustego 2,  
 44-100 Gliwice, Poland  
 tel.: +48 32 237 12 47, +48 32 237 13 04  
 E-mail: [ieee-pemc2020@polsl.pl](mailto:ieee-pemc2020@polsl.pl)

[www.ieee-pemc2020.org](http://www.ieee-pemc2020.org)

