



Politechnika Warszawska
Wydział Samochodów i Maszyn Roboczych

IX International Conference
"Mechatronics Systems of Vehicles and Heavy Machinery"
30.11.2017 r.



Framework of conference plan (11:15 - 15:40)
Multimedia room



shim-pol

shim-pol

Start of Conference (11¹⁵ ÷ 11³⁰)
Opening of the Conference

First Session (11³⁰ ÷ 12⁵⁰)

11³⁰ ÷ 11⁵⁰ – **Piotr Piórkowski**: *Electric vehicles and its charging infrastructure's autonomization*

11⁵⁰ ÷ 12¹⁰ – **Jędrzej Maćzak**: *Internet of Things*

12¹⁰ ÷ 12³⁰ – **Krzysztof Polakowski**: *Dangers to which electric vehicle users may be exposed and ways to prevent them*

12³⁰ ÷ 12⁵⁰ – **Artur Witkowski**: *Presentation of SHIM-POL A.M. Borzymowski*

Break (12⁵⁰ ÷ 13⁰⁰)

Second Session (13⁰⁰ ÷ 14⁴⁰)

13⁰⁰ ÷ 13²⁰ – **Stanisław Radkowski**: *10th anniversary of the creation of the Integrated Laboratory of the Mechatronics System of Vehicles and Construction Machinery - summary of scientific work*

13²⁰ ÷ 13⁴⁰ – **Krzysztof Szczurowski**: *Laboratory of Vehicles Mechatronics - summary of research projects*

13⁴⁰ ÷ 14⁰⁰ – **Michał Bartyś**: *Laboratory of Automation Networking Systems - summary of research projects*

14⁰⁰ ÷ 14²⁰ – **Zbigniew Żebrowski**: *Laboratory of Heavy Machinery Mechatronics Systems - summary of research projects*

14²⁰ ÷ 14⁴⁰ – **Marcin Wojs**: *Laboratory of Agricultural Machines Mechatronics - summary of research projects*

Third Session (14⁴⁰ ÷ 15⁴⁰)

Poster presentations (lunch)

Poster presentations

1. **Krzysztof Biskup, Jacek Dybała, Szymon Gontarz, Krzysztof Nadulicz, Przemysław Szulim:** *Passive and active magnetic methods as the basis for a new approach to research related to detection, eradication and neutralization of threats of terrorism and organized crime*
2. **Krzysztof Biskup, Szymon Gontarz, Krzysztof Więclawski:** *Sensoric system in a acquiring information on passing vehicles*
3. **Sebastian Brol, Krystian Skrzypiec, Marian Bartoszek, Adam Stawiarski, Mariusz Rosiak, Łukasz Winchula, Piotr Mróz, Sebastian Sdziej, Rafał Czok, Sandra Kaczanowska, Krzysztof Jakubczyk:** *Conception of device for gutter corner welding*
4. **Rafał Czok, Sebastian Brol:** *Influence of hydraulic motor selection on range of vehicle with hydraulic-pneumatic drive*
5. **Bernard Fryśkowski:** *Spark plug insulator form factor*
6. **Otto Grygorov, Vsevolod Stryzhak, Daria Ziubanova:** *Increase performance of hoisting and transportation machines through modern drives application*
7. **Marcin Jasiński, Jędrzej Mączak, Stanisław Radkowski, Przemysław Szulim:** *Camers tests of vision system for plant /weed classification*
8. **Gennadij Krutikov Anatolievich , Mariana Stryzhak Georgievna:** *Influence of the control scheme for impact pneumatic drive on its operating characteristics*
9. **Kamil Kujawski, Przemysław Szulim, Robert Gumiński:** *Self-balancing mobile robot: Mechanical construction and mathematical models*
10. **Piotr Mróz, Sebastian Brol:** *Impact of size of valve orifice for duration of decompression of gas in pneumatic-hydraulic accumulator*
11. **Krzysztof Rokicki:** *Modeling knowledge in vehicle diagnostics using object-oriented data models*
12. **Jan Szczepaniak, Roman Rogacki, Jacek Wojciechowski, Michał Maleszka, Jarosław Mac, Marcin Szczepaniak, Marek Szycha, Maciej Ciechanowski:** *Precyzyjny siewnik punktowy jako urządzenie mechatroniczne*
13. **Agnieszka Szegda, Sebastian Brol:** *Influence of storage on wheel magnetism*
14. **Agnieszka Szegda, Sebastian Brol:** *Influence of exploitation of automotive wheel on projections of its induction vector*
15. **Halina Trzaskowska, Krzysztof Więclawski, Tomasz Nowak:** *Research elemental composition of particulate filters*
16. **Damian Walczak:** *Design of a vehicle smoke measuring device for road traffic*
17. **Aleksandra Waszczuk-Młyńska, Stanisław Radkowski:** *Hilbert transformations in fault diagnosis*
18. **Krzysztof Więclawski, Krzysztof Szczurowski, Damian Walczak, Łukasz Zieliński:** *Modeling of gas injector , used in compression-ignition dual- fuel engines, based on current-voltage waveforms*