

## **SUMMARY OF BACKGROUND AND EXPERIENCE**

### **BOGDAN THADDEUS FIJALKOWSKI**

**Full Professor of Cracow University of Technology in Krakow  
and State Higher Vocational School in Nowy Sacz, Poland**

#### **Academic Training**

Master of Science	Electrics, Szczecin University of Technology (at present West-Pomeranian University of Technology (Zachodnio-Pomorski Uniwersytet Technologiczny), Szczecin, Poland, 1959
Doctor of Philosophy	Electronics, Mining and Metallurgical Academy (Akademia Gorniczo-Hutnicza), Cracow, Poland, 1965
Doctor of Science	Dynamics, Poznan University of Technology (Politechnika Poznanska), Poznan, Poland, 1988
Titular Professor	Engineering Sciences, Cracow University of Technology (Politechnika Krakowska), Cracow, Poland, 1997
Full Professor	Engineering Sciences, Cracow University of Technology (Politechnika Krakowska), Cracow, Poland, 2000

#### **Professional Experience**

- 1958-61 Teaching Assistant, Chair of Theoretical Electrotechnics, Szczecin University of Technology (Politechnika Szczecinska), Szczecin, Poland
- 1961-65 Teaching Senior Assistant, Chair of Mining Electrotechnics, Mining and Metallurgical Academy (Akademia Gorniczo-Hutnicza), Cracow, Poland
- 1965-68 Assistant Professor, Chair of Mining Electrotechnics, Mining and Metallurgical Academy (Akademia Gorniczo-Hutnicza), Cracow, Poland
- 1968-69 Consultants for Automation and Mechanisation Works of the Non-ferrous Metal Industry - "ZAM", Kety, Poland
- 1968-72 Assistant Professor and Chairman, Mining Automation and Cybernetics Laboratory, Mining Electrotechnics Institution, Institute for Automation of Electric Drives and Industrial Equipment, Mining and Metallurgical Academy (Akademia Gorniczo-Hutnicza), Cracow, Poland
- 1971-72 Assistant Professor (part time), Department of Electrical Engineering, Saint-Cross University of Technology (Politechnika Swietokrzyska), Kielce, Poland
- 1972-87 Assistant Professor and Chairman, Automotive Electrotechnics and Electronics Laboratory, Special Vehicles Institution, Institute for Automotive Vehicles and Combustion Engines, Cracow University of Technology (Politechnika Krakowska), Cracow, Poland
- 1987-89 Assistant Professor and Chairman, Automotive Electrotechnics and Electronics Institution, Institute for Automotive Vehicles and Combustion Engines, Cracow University of Technology (Politechnika Krakowska), Cracow, Poland
- 1989-91 Associate Professor and Chairman, Automotive Electrotechnics and

- Electronics Institution, Institute for Automotive Vehicles and Combustion Engines, Cracow University of Technology (Politechnika Krakowska), Cracow, Poland
- 1991-93 University Professor and Chairman, Automotive Electrotechnics and Electronics Institution, Institute for Automotive Vehicles and Combustion Engines, Cracow University of Technology (Politechnika Krakowska), Cracow, Poland
- 1993-97 University Professor and Chairman, Automotive Mechatronics Institution, Institute for Automotive Vehicles and Combustion Engines, Faculty of Mechanics, Cracow University of Technology (Politechnika Krakowska), Cracow, Poland
- 1997-99 Titular Professor and Chairman, Automotive Mechatronics Institution, Institute for Automotive Vehicles and Combustion Engines, Faculty of Mechanics, Cracow University of Technology (Politechnika Krakowska), Cracow, Poland
- 1999-02 Titular Professor and Chairman, Automotive Mechatronics Institution, Institute of Electrotechnics and Industrial Electronics, Faculty of Electrical and Computer Engineering, Cracow University of Technology (Politechnika Krakowska), Cracow, Poland
- 1999-00 Titular Professor and Director, Institute of Electrotechnics and Industrial Electronics, Faculty of Electrical and Computer Engineering, Cracow University of Technology (Politechnika Krakowska), Cracow, Poland
- 1999-02 Full Professor and Director, Institute of Electrotechnics and Industrial Electronics, Faculty of Electrical and Computer Engineering, Cracow University of Technology (Politechnika Krakowska), Cracow, Poland
- 2002- Emeritus Professor, The Convent of Seniors, Cracow University of Technology (Politechnika Krakowska), Cracow, Poland
- 2012- Full Professor, Mechatronics Institution, Institute of Technology, State Higher Vocational School (Panstwowa Wyższa Szkoła Zawodowa), Nowy Sacz, Poland

## **Vocational Experience**

“Mercury-arc and Thyristor Converters Training”, Swedish Government’s Scientific Scholarship at Allmänna Svenska Elektriska Aktiebolaget (ASEA) Works in Ludvika and Kungliska Tekniska Högskolan (KTH) in Stockholm, Sweden, 1960

“Education Conference on Learning Automates” (“Konferencja szkoleniowa n.t. Automaty uczące się”), organised by Polish Academy of Sciences (Polska Akademia Nauk), Jabłonna, Poland, 17-22.10.1966

“International Training on Thyristor Converters”, organised by ASEA, at present ABB, Västerås, Sweden, January/February, 1972

“International Course on Contemporary Problems in Mechanics of Great Systems” (“Międzynarodowy kurs n.t. Współczesne problemy mechaniki wielkich systemów”), organised by Polish Academy of Sciences (Polska Akademia Nauk), Jabłonna, Poland, 1974

“Infrared Instrumentation Training”. organised by AGA Infrared Systems AB, Lidingö, Sweden, 29.05- 02.06.1992

“Workshop on Emerging and Future Trends in Microelectronics”, organised

by NATO ARW, Bendor (Ile de Bendor), France, July 17-21, 1995

"*Workshop on Power Electronics in Transportation (WPET '96)*", organised by IEEE, Dearborn, Michigan, USA, October 24-25, 1996

"*Workshop on Power Electronics in Transportation (WPET '98)*". organised by IEEE, Dearborn, Michigan, USA, October 22-23, 1998,\

### **Committees, Honors and Awards**

University Vice Ombudsman, The Rector's Commission on Mutual Under-standing,  
Cracow University of Technology, Cracow, Poland (1991-98)

Member, Mechanics Faculty Council, Cracow University of Technology, Cracow,  
Poland 1988-99)

Member, Electrical and Computer Engineering Faculty Council, Cracow University  
of Technology, Cracow, Poland (1993-2002)

Member, Programme Council of the Information System Centre, Cracow University  
of Technology, Poland (2000-2005)

Signatory of the Memorandum of Understanding (MoU) for the establishment  
of World Electric Vehicle Association - WEVA, Toronto, Canada (1989)

Promoter of PhD theses:

Tutaj J.: *Estymacja jakości energii samochodowych komutatorowych pradnic mechanoelektrycznych z komutatorami elektronicznymi.* Akademia Gorniczo-Hutnicza, Krakow, 1966 (In Polish)

Nabaglo T.: *Synteza ukladu sterowania semiaktywnego zawieszenia samochodu z elementami magnetoreologicznymi (Synthesis of semi-active suspension control system with magnetorheological elements).* Politechnika Krakowska, 2006 (In Polish)

Reviewer and Referee of PhD theses:

Paszkowski J.: *Wyznaczanie niewspółosiowości części mechanicznych samochodowych rozdzielaczy zapłonu metoda pomiarów równomierności iskier katów zwarcia styków przerywacza.* Politechnika Warszawska, 1991 (In Polish)

Hong H.: *Optimum performance of Solenoid Injectors for Direct Injection of Gaseous Fuels in IC engines.* School of Degrees, Concordia University, Montreal, Quebec, Canada, 1995

Juszczuk W.: *Zastosowanie silnika zasilanego z przemiennika częstotliwości do napędu cementowego pieca obrotowego.* Instytut Elektrotechniki, Warszawa-Miedzylesie, 1996 (In Polish)

Reviewer and Referee of DSc dissertations:

Józef Tutaj: - *Ujście systemowe dynamiki wielofunkcyjnego pradnicowo-rozrusznika silnika spalinowego pojazdu samochodowego (Dynamical Systems Approach of a Multifunctional Generator/Starter for the Combustion Engine of an Automotive Vehicle).* Seria Mechanika, Monografia, 409, Wydawnictwo Naukowe Politechniki Krakowskiej im. Tadeusza Kościuszki, Krakow 2012 (In Polish).

Stanisław Rajba - *TEORIA I MODELE MATEMATYCZNE BEZPRZEWODO-*

*WYCH SIECI SENSOROWYCH Z DOSTĘPEM LOSOWYM*, Dysertacja została opracowana na Narodowym Uniwersytecie Lotniczym Ministerstwa Edukacji i Nauki Ukrainy i przewidziana do obrony przed Komisją o specjalności 05.12.02 – Systemy i Sieci Telekomunikacyjne. Obrona odbyła się 28 sierpnia 2014 r. o godz. 1530 na posiedzeniu Specjalizowanej Rady Naukowej D 26.062. 17 na Narodowym Uniwersytecie Lotniczym w Kijowie, Ukraina.

Guest Editor, *Journal of Circuits, Systems and Computers -- Special Issue on Automotive Electronics (1993-95)*

Reviewer and Referee, “IEEE Transactions on Circuits and Systems - Part I”, USA (1999)

Reviewer and Referee, “IEEE Transactions on Fuzzy Systems”, USA (1999)

Reviewer and Referee, “International Journal of Vehicle Design” published by Inderscience Publishers (2011)

Reviewer and Referee, “International Journal of Advanced Robotic Systems” published by InTech - open science | open minds (2013)

Reviewer and Referee, “International Journal of Technology Management (IJTM)” published by Inderscience Publishers <http://www.inderscience.com/ijtm>, Dr. M.A. Dorgham, Editor. (2014)

Reviewer of books:

Pomierny J.: *Laboratorium elektrotechniki samochodowej (Automotive Electrics Laboratory Manual)*. Skrypt Uczelniany Nr 72, Wyższa Szkoła Inżynierska, Opole 1981 (In Polish)

Horecki S.: *Elektrotechnika samochodowa (Automotive Electrics)*. Skrypt Uczelniany Nr 67 & 137, Wyższa Szkoła Inżynierska, Opole 1982 & 1990 (In Polish)

Szklarski L. et al.: *Electric Drive Systems Dynamics – Selected Problems*. PWN Warszawa and Elsevier Amsterdam 1990

Ocioszynski J.: *Elektrotechnika i elektronika w motoryzacji (Electrotechnics and Electronics in Motorization)*. Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 1995 (In Polish)

Szklarski L., et al.: *Automatyka Napedu Elektrycznego (Electric Drive Automation)*, Wydawnictwa Akademii Górnictwo-Hutniczej, Kraków 1995 (In Polish)

Kurytnik I.P. and M. Karpinski: *Bezprzewodowa transmisja informacji (Wireless Information Transmission)* Wydawnictwo PAK, Gliwice 2008 (In Polish)

Karpiński M.: *Bezpieczeństwo informacji (Information Security)* Wydawnictwo PAK, Gliwice 2012 (In Polish)

Tutaj J.: *Ujęcie systemowe dynamiki wielofunkcyjnego pradnico-rozrusznika*

*silnika spalinowego pojazdu samochodowego (Dynamical Systems Approach of a Multifunctional Generator/Starter for the Combustion Engine of an Automotive Vehicle).* Redaktor naukowy: Bogdan Fijalkowski, Monografia, Seria Mechanika, Wydawnictwo Naukowe Politechniki Krakowskiej im. Tadeusza Kościuszki, Krakow 2012 (In Polish).

Reviewer of conference technical papers: over 250 papers, for EVS, ISATA, SAE and so on.

- Member, Tutorial Commission, Polish Committee of Automatic Information Processing (Polski Komitet Automatycznego Przetwarzania Informacji - PKAPI) at Supreme Technical Organisation (Naczelnna Organizacja Techniczna -- NOT), Cracow, Poland (1968-72)
- Member, Power Electronics and Electrical Drives Section, Committee of Electro-technics, Polish Academy of Sciences (Polska Akademia Nauk -- PAN), Warsaw, Poland
- Member, Automotive Science and Problems Commission, Cracow Division of Academy of Sciences (Oddział Krakowski Polskiej Akademii Nauk -- PAN), Cracow, Poland
- Member, Section of Mechatronics, Committee of Mechanics, Polish Academy of Sciences (Polska Akademia Nauk - PAN), Warsaw, Poland
- Member, Section of Mechatronics, Committee of Machine Construction, Polish Academy of Sciences (Polska Akademia Nauk – PAN), Warsaw, Poland
- Member, Scientific Committee, Ogólnopolska Konferencja Naukowa -- "KONMOT '76": 'Postęp w badaniach pojazdów samochodowych' (All-Poland Scientific Conference -- "KONMOT '76": 'Progress in research of automotive vehicles'), Krakow-Krościenko-Szczawnica, Poland (20-23 October 1976)
- Member, Scientific Committee, The 10<sup>th</sup> International Electric Vehicle Symposium – EVS-10, Hong Kong (3-5 December 1990)
- Member, Programme Committee, 24<sup>th</sup> International Symposium on Automotive Technology and Automation - ISATA, International Dedicated Conference on Mechatronics, Florence Italy (20-24 May 1991)
- Member, Programme Committee, 24<sup>th</sup> International Symposium on Automotive Technology and Automation - ISATA, International Dedicated Conference on Electric/Hybrid Vehicles: An Emerging Global Industry, Florence -- Italy (20 -24 May 1991)
- Member, Programme Committee, 25<sup>th</sup> International Symposium on Automotive Technology and Automation - ISATA, International Dedicated Conference on Mechatronics, Florence - Italy (1-5 June 1992)
- Member, Programme Committee, 25<sup>th</sup> International Symposium on Automotive Technology and Automation - ISATA, International Dedicated Conference on Zero Emission Vehicles - The Electric/Hybrid and Alternative Fuel Challenge, Florence - Italy (1-5 June 1992)
- Member, Scientific Committee and Paper Selection Panel, the 11<sup>th</sup> International Electric Vehicle Symposium, Florence - Italy (27-30 September 1992)
- Member, ROVA'93 Committees, 1<sup>st</sup> International Conference on Road Vehicle Automation -- ROVA'93 International, Bolton - UK (24-26 May 1993)
- Member, Programme Committee, 26<sup>th</sup> International Symposium on Automotive

- Technology and Automation - ISATA, International Dedicated Conference on Mechatronics, Aachen - Germany (13-17 September 1993)
- Member, Programme Committee, 26<sup>th</sup> International Symposium on Automotive Technology Automation - ISATA, International Dedicated Conference on Electric, Hybrid and Alternative Fuel Vehicles: Progress in Technology & Infrastructure, Aachen - Germany (13-17 September 1993)
- Member, Scientific Committee, Krajowa Konferencja Niekonwencjonalne Napędy Pojazdów i Maszyn Roboczych (Native Conference on Unconventional Drives of Vehicles and Construction Machines), Warsaw -- Poland (18 March 1994)
- Member, Scientific Committee, Ogólnopolska Konferencja Naukowa - „KONMOT '94": 'Ekonomiczne i ekologiczne aspekty rozwoju pojazdów samochodowych i silników spalinowych' (All-Poland Scientific Conference - "KONMOT '94": 'Economical and ecological development aspects of automotive vehicles and combustion engines'), Cracow - Poland (6, 7 October 1994)
- Member, Programme Committee, 27<sup>th</sup> International Symposium on Automation -- ISATA, International Dedicated Conference on Mechatronics, Aachen -- Germany (31 October - 4 November 1994)
- Member, Programme Committee, 27<sup>th</sup> International Symposium on Automotive Technology and Automation - ISATA, International Dedicated Conference on Electric, Hybrid and Alternative Fuel Vehicles, Aachen - Germany (31 October -- 4 November 1994)
- Member, Programme Committee, 27<sup>th</sup> International Symposium on Automotive Technology and Automation -- ISATA, International Dedicated Conference on Supercars (Advanced Ultralight Hybrids), Aachen -- Germany (31 October -- 4 November 1994)
- Member, Scientific Committee, Krajowa Konferencja Niekonwencjonalne Napędy Pojazdów i Maszyn Roboczych, Warszawa (18 marca 1994)
- Member, Scientific Committee, Ogólnopolska Konferencja Naukowa -- "KONMOT '94": 'Ekonomiczne i ekologiczne aspekty rozwoju pojazdów samochodowych i silników spalinowych', Kraków (6, 7 października 1994)
- Member, Programme Committee, 27<sup>th</sup> International Symposium on Automotive Technology and Automation - ISATA, International Dedicated Conference on Electric, Hybrid and Alternative Fuel Vehicles, Aachen -- Germany (31 October -- 4 November 1994)
- Member, Programme Committee, 27<sup>th</sup> International Symposium on Automotive Technology and Automation - ISATA, International Dedicated Conference on Supercars (Advanced Ultralight Hybrids), Aachen - Germany (31 October -- 4 November 1994)
- Member, ROVA'95 Committees, 2<sup>nd</sup> International Conference on Road Vehicle Automation -- ROVA'95 International, Bolton - UK (11-13 September 1995)
- Member, Programme Committee, 28th International Symposium on Automotion -- ISATA, International Dedicated Conference on Mechatronics, Stuttgart -- Germany (18<sup>th</sup> - 22<sup>nd</sup> September 1995)
- Member, Programme Committee, 29<sup>th</sup> International Symposium on Automotive Technology and Automation -- ISATA, International Dedicated Conference on Mechatronics, Florence -- Italy (3<sup>rd</sup> - 6<sup>th</sup> June 1996)
- Member, Programme Committee, International Conference on "ZERO EMISSION VEHICLES BRNO 96", Brno -- Czech Republic (11 -12 June 1996)
- Member, Scientific Committee, Ogólnopolska Konferencja Naukowa -- "KONMOT

- '96": 'Perspektywy rozwojowe konstrukcji, technologii i eksploatacji pojazdów samochodowych i silników spalinowych', Kraków (październik 1996)
- Member, Programme Committee, 30<sup>th</sup> International Symposium on Automotive Technology and Automation -- ISATA, International Conference on Mechatronics, Florence - Italy (16<sup>th</sup> - 19<sup>th</sup> June 1997)
- Member, Programme Committee, 30<sup>th</sup> International Symposium on Automotive Technology and Automation -- ISATA, International Conference on Electric, Hybrid and Alternative Fuel Vehicles, Florence - Italy (16<sup>th</sup> - 19<sup>th</sup> June 1997)
- Member, Programme Committee, 31<sup>st</sup> International Symposium on Automotive Technology and Automation - ISATA, Programme Track on Automotive Mechatronics Design & Engineering, Düsseldorf - Germany (2<sup>nd</sup> - 5<sup>th</sup> June 1998)
- Member, Programme Committee, 31<sup>st</sup> International Symposium on Automotive Technology and Automation -- ISATA, Programme Track on Advanced Manufacturing in the Automotive Industry, Düsseldorf -- Germany (2<sup>nd</sup> - 5<sup>th</sup> June 1998)
- Member, International Steering and Programme Committee, International Conference on "ZERO EMISSION VEHICLES KARLOVE VARY 98", Karlove Vary - Czech Republic (18-20 June 1998)
- Member, International Program Committee, International Conference on Advances in Vehicle Control and Safety -- AVCS'98, Amiens -- France (July 1-3, 1998)
- Member, Scientific Committee, Ogólnopolska Konferencja Naukowa - "INTER-KONMOT '98": 'Konstrukcja, Technologia i Eksplotacja Pojazdow Samochodowych i Silników Spalinowych u Progu XXI Wieku', Zakopane -- Poland (14-17 października 1998)
- Member, Programme Committee, 32<sup>nd</sup> International Symposium on Automotive Technology and Automation -- ISATA, Programme Track on Automotive Mechatronics Design & Engineering, Vienna -- Austria (14-18 June 1999)
- Member, Programme Committee, 32<sup>nd</sup> International Symposium on Automotive Technology and Automation -- ISATA, Programme Track on Clean Power Sources and Environmental Implications in the Automotive Industry, Vienna -- Austria (14-18 June 1999)
- Member, Programme Committee, 32<sup>nd</sup> International Symposium on Automotive Technology and Automation -- ISATA, Programme Track on Automotive Electronics and New Products, Vienna -- Austria (14-18 June 1999)
- Member, International Steering and Programme Committee, 4<sup>th</sup> International Conference on Unconventional Electromechanical and Electrical Systems -- UEES, St. Petersburg -- Russia (21-24 June 1999)
- Member, Programme Committee, SAE International Automotive and Transportation Congress and Exhibition, ATTC 2001, Barcelona, Spain, 2001 (October 1-3, 2001)
- Member, The Convent of Seniors, Cracow University of Technology (Konwent Seniorów Politechniki Krakowskiej), 2002 (Recent)
- Member, Programme Council (Rada Programowa), Centre of the Education and Research in a Discipline of the Informatics Application, Cracow University of Technology (Centrum Kształcenia i Badan w Zakresie Zastosowań Informatyki, Politechnika Krakowska), 2001-2004
- Member, Program Committee, Intelligent Building Congress, Cracow, Poland, 2002
- Member, Honorary Committee (Komitet Honorowy), International Motorisation

- Conference (Miedzynarodowa Konferencja Motoryzacyjna) AUTOPROGRES-KONMOT 2002, Construction Development, Technology and Exploitation of Vehicles (Doskonalenie Konstrukcji, Technologii i Eksplotacji Pojazdów), Pasym k/Olsztyna, 21-24 maja 2002
- Member, Honorary Committee (Komitet Honorowy), International Motorisation Conference (Międzynarodowa Konferencja Motoryzacyjna) AUTOPROGRES-KONMOT 2004, Safety and Ecology of Vehicles (Bezpieczeństwo i Ekologia Pojazdow), Zakopane, 23-26 września 2004
- Member, AVCS International Program Committee, International Conference on Advances in Vehicle Control and Safety, I3M: International Mediterranean Modeling Multi-conference, Genova, Italy, October 28-30, 2004
- Member, Honorary Committee (Komitet Honorowy), International Motorisation Conference (Międzynarodowa Konferencja Motoryzacyjna) AUTOPROGRES-KONMOT 2006, Safety and Ecology of Vehicles (Bezpieczenstwo i Ekologia Pojazdow), Rynia k/Warszawy, 26-28 maja 2006
- Member, Honorary Committee (Komitet Honorowy), International Motorisation Conference (Miedzynarodowa Konferencja Motoryzacyjna) KONMOT-AUTOPROGRES 2008, Motoryzacja w dobie zrownowazonego rozwoju swiata), Szczawnica, Poland, 9 – 11 pazdziernika 2008
- Member, Honorary Committee, International Automotive Conference KONMOT 2012, Design and Exploitation of Automobiles – Safety and Environment Protection. 27-28 September 2012, Cracow (Krakow), Poland.
- Member, Main Tracks' Committee, IEEE SMC 2013, International Conference on Systems, Man, and Cybernetics, October 13-16, 2013, Manchester, UK**
- Member, Honorary Committee, International Automotive Conference KONMOT 2013, Design and Exploitation of Automobiles – Safety and Environment Protection. 29-30 September 2013, Cracow (Krakow), Poland.
- Member, Scientific Committee (Komitet Naukowy), Motorisation Conference (Konferencja Motoryzacyjna) KONMOT 2014, Rozwój pojazdów samochodowych – Budowa, Eksplotacja, Ekologia i Bezpieczeństwo), Kraków, Poland, 25 – 26 września 2014 r.
- Member, Program Committee, IEEE SMC 2014, International Conference on Systems, Man, and Cybernetics, October 5-8, 2014, San Diego, California, USA
- Chairman, Session on Transmission, Suspension and Steering Controls, 24<sup>th</sup> International Symposium on Automotive Technology and Automation - ISATA, International Dedicated Conference on Mechatronics, Florence - Italy (20-24 May 1991)
- Chairman, Session on Hybrid Electric Vehicles, 24<sup>th</sup> International Symposium on Automotive Technology and Automation -- ISATA, International Dedicated Conference on Electric/Hybrid Vehicles: An Emerging Global Industry, Florence - Italy (20-24 May 1991)
- Chairman, Session on Propulsion, Braking, Suspension and Guidance Controls, 25<sup>th</sup> International Symposium on Automotive Technology and Automation - ISATA, International Dedicated Conference on Mechatronics, Florence - Italy (1-5 June 1992)
- Chairman, Session on Hybrids, the 11<sup>th</sup> International Electric Vehicle Symposium, Florence - Italy (27-30 September 1992)
- Chairman, Session on Power Electronics Control Systems, V Symposium nt.

- 'Podstawowe Problemy Energoelektroniki' - PPE'93 (V<sup>th</sup> Symposium on Power Electronics Problems - PPE'93), Ustron - Poland (15-18 March 1993)
- Chairman, Session Four on Driver Assistance and Cooperative System 1, International Conference on Road Vehicle Automation -- ROVA'93 International, Bolton -- UK (24-26 May 1993)
- Chairman, Sessions on Propulsion, Braking, Suspension and Guidance Controls -- I and II, 26<sup>th</sup> International Symposium on Automotive Technology and Automation -- ISATA, International Dedicated Conference on Mechatronics, Aachen -- Germany (13-17 September 1993)
- Chairman, Session on Hybrid Vehicles - I, 26<sup>th</sup> International Symposium on Automotive Technology and Automation - ISATA, International Dedicated Conference on Electric, Hybrid and Alternative Fuel Vehicles: Progress in Technology and Infrastructure, Aachen - Germany (13-17 September 1993)
- Chairman, Sessions on Electric Drives and Hybrid Vehicles, Konferencja: Niekonwencjonalne napędy pojazdów i maszyn roboczych, Warszawa -- Poland, (18 III 1994)
- Chairman, Sessions on Integrated Chassis Control, 27<sup>th</sup> International Symposium on Automotive Technology and Automation -- ISATA, International Dedicated Conference on Mechatronics, Aachen -- Germany (31 October -- 4 November 1994)
- Chairman, Sessions on Hybrid Powertrains, 27th International Symposium on Automotive Technology and Automation - ISATA, International Dedicated Conference on Electric, Hybrid and Alternative Fuel Vehicles, Aachen -- Germany (31 October -- 4 November 1994)
- Chairman, Session on Computer Vision and Image Understanding II, 2<sup>nd</sup> International Conference on Road Vehicle Automation -- ROVA'95 International, Bolton -- UK (11-13 September 1995)**
- Chairman, Session on Automotive Sensors and Mechatronics, 2<sup>nd</sup> International Conference on Road Vehicle Automation - ROVA'95 International, Bolton -- UK (11-13 September 1995)
- Chairman, Sessions on Integrated Chassis Control I & II, 28<sup>th</sup> International Symposium on Automotive Technology and Automation -- ISATA, International Dedicated Conference on Mechatronics, Stuttgart -- Germany (18<sup>th</sup> - 22<sup>nd</sup> September 1995)
- Chairman, Sessions on Electronic Systems I & II, 28th International Symposium on Automotive Technology and Automation -- ISATA, International Dedicated Conference on Mechatronics, Stuttgart -- Germany (18<sup>th</sup> - 22<sup>nd</sup> September 1995)
- Chairman, Session on Noise, Vibration and Crush Analyses, 29<sup>th</sup> International Symposium on Automotive Technology and Automation -- ISATA, International Dedicated Conference on Mechatronics, Florence - Italy (3<sup>rd</sup> - 6<sup>th</sup> June 1996)
- Chairman, Session on Manufacturing & Machining Aspects, 29th International Symposium on Automotive Technology and Automation -- ISATA, International Dedicated Conference on Mechatronics, Florence -- Italy (3<sup>rd</sup> - 6<sup>th</sup> June 1996)
- Chairman, Sessions on Flexible Manufacturing, 29<sup>th</sup> International Symposium on Automotive Technology and Automation -- ISATA, International Dedicated Conference on Mechatronics, Florence -- Italy (3<sup>rd</sup> - 6<sup>th</sup> June 1996)
- Chairman, Sessions on Zero Emission Vehicles, International Conference

on "ZERO EMISSION VEHICLES BRNO 96", Brno -- Czech Republic (11-12 June 1996)

Chairman, Sessions on Hybrid Vehicle, 30<sup>th</sup> International Symposium on Automotive Technology and Automation -- ISATA, International Dedicated Conference on Hybrid, Electric and Alternative Fuel Vehicles, Florence -- Italy (16<sup>th</sup> - 19<sup>th</sup> June 1997)

Chairman, Sessions on Ultrainductors, Ultracapacitors and Ultraflywheels, 30<sup>th</sup> International Symposium on Automotive Technology and Automation -- ISATA, International Dedicated Conference on Hybrid, Electric and Alternative Fuel Vehicles, Florence - Italy (16<sup>th</sup> - 19<sup>th</sup> June 1997)

Chairman, **Panel Discussion on EMERGING & FUTURE TRENDS IN AUTOMOTIVE ELECTRONICS**, 31<sup>st</sup> International Symposium on Automotive Technology and Automation -- ISATA, Programme Track on Automotive Electronics & New Products, Düsseldorf - Germany (2<sup>nd</sup> -- 5<sup>th</sup> June 1998)

Chairman, Session on Supporting Systems -- II, 32<sup>nd</sup> International Symposium on Automotive Technology and Automation -- ISATA, Vienna -- Austria (14<sup>th</sup> -- 18<sup>th</sup> June 1999)

Chairman, Session on Power Electronics and Control of Electrical Systems, 4th International Conference on UNCONVENTIONAL ELECTROMECHANICAL AND ELECTRICAL SYSTEMS, St. Petersburg - Russia (21-24 June 1999)

Chairman. Session on Powertrain and Heat Transfer/Exchange, SAE International Automotive and Transportation Congress and Exhibition, ATTC 2001, Barcelona, Spain, 2001 (October 1-3,2001)

Chairman. Session on Electronics, SAE International Automotive and Transportation Congress and Exhibition, ATTC 2001, Barcelona, Spain, 2001 (October 1-3, 2001)

Chairman. Session on Chassis and Total Vehicle, SAE International Automotive and Transportation Congress and Exhibition, ATTC 2001, Barcelona, Spain, 2001 (October 1-3, 2001)

Chairman, (Co-chairman – Prof. Dariusz Żardecki), Sesja I – Konstrukcja (Session I – Construction), X MIEDZYNARODOWE SYMPOZJUM Instytutu Pojazdów Mechanicznych i Transportu WAT -- POJAZDY 2009 -- “Doskonalenie konstrukcji oraz metod eksploatacji pojazdów mechanicznych” (X International Symposium VEHICLES 2009), przy współpracy z Wolgogradskim Państwowym Uniwersytetem Technicznym, Rynia -- Poland (15 – 17 czerwca 2009 r.)

Co-chairman (Chairman - Professor L. A. Sinicki), Session on Mathematical Modelling and Computer Simulation, 3<sup>rd</sup> International Scientific & Technical Conference on "Mathematical Modelling in Electrotechnics, Electronics and Electro-energetics", Lvov -- Ukraine (25 - 30 October 1999)

Recipient, 1956 -- Silver Mark of Distinction, Academic Sport Association (Akademickie Zrzeszenie Sportowe - AZS) Award

Recipient, 1958 -- 50<sup>th</sup> Anniversary Jubilee Honorary Mark of Distinction, Academic Sport Union (Akademicki Związek Sportowy - AZS) Award (1908-1956)

Recipient, 1967 -- The Minister of Higher Education and Technology's Award

Recipient, 1969 -- The Rector of Mining and Metallurgical Academy's Award;

Recipient, 1972 -- The Rector of Mining and Metallurgical Academy's Award  
Recipient, 1979 -- Gold Cross of Merit, The President, Republic of Poland  
Recipient, 1980 -- The Rector of Cracow University of Technology's Award  
Recipient, 1983 -- 20<sup>th</sup> Anniversary of Employment in National Education Jubilee Award (1958-1978)  
Recipient, 1984 -- 25<sup>th</sup> Anniversary of Employment in National Education Jubilee Award (1958-1983)  
Recipient, 1986 -- The Rector of Cracow University of Technology's Award  
Recipient, 1988 -- 30<sup>th</sup> Anniversary of Employment in National Education Jubilee Award (1958-1993)  
Recipient, 1988 -- 50th Anniversary Jubilee Medal, Aircraft Factory - "PZL-MIELEC" (1938-1988)  
Recipient, 1989 -- The Minister of National Education Award  
Recipient, 1991 -- Honorary Mark of Distinction, Cracow University of Technology's Award  
Recipient, 1992 -- The Rector of Cracow University of Technology's Award  
Recipient, 1993 -- 35<sup>th</sup> Anniversary of Employment in National Education Jubilee Award (1958-1993)  
Recipient, 1995 -- 50<sup>th</sup> Anniversary Jubilee Medal, Szczecin University of Technology's Award (1945-1995)  
Recipient, 2002 -- Medal for Distinction in National Education, The President, Republic of Poland  
Recipient, 2003 -- 45<sup>th</sup> Anniversary of Employment in National Education Jubilee Award (1958-2003)

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2. *Sterowanie maszyny wyciagowej pradu stałego z przekształtnikami rteciovymi*, Zeszyty naukowe Politechniki Szczecinskiej, Nr 36, Prace Monograficzne, Nr 9, Politechnika Szczecinska, Szczecin 1962, 59 p. (In Polish)
3. *Laboratorium elektrotechniki gorniczej* (with the others), Czesc I - Cwiczenia dla studentów Wydzialu Elektrotechniki Gorniczej i Hutniczej, Skrypty Uczelniane, Nr 66, Akademia Górnictwo-Hutnicza, Kraków 1962, 246 p. 1 (In Polish)
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18. "Adaptive speed control of D.C. motor", (with L. Szklarski and P. Degeratu), *Proceedings of the Third Congress of the Federation of Automatic Control -- IFAC*, Automatic and Remote Control, Session 9: Position and Speed Control, London, England, 20-25 June 1966, pp. 90.1-90.9
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  25. "For the automotive gas turbine hybrid-electric vehicles". *World Electric Vehicle Journal*, Vol.4, 2010 WEVA. Pp. 000575-000586. "Novel internal combustion engine without crankshaft and connecting rod mechanisms". *Journal of KONES Powertrain and Transport*. Vol. 18, No.4. 2011.
  26. Mechanical Homogeneous Continuous Dynamical Systems Holor Algebra – Steady-State Alternating Velocity. *Int. J. of Applied Mechanics and Engineering*, 2016, vol.21, No.4, pp. 805-826
  27. A New Fuel-Injection Mechatronic Control Method for Direct-Injection Internal Combustion Engines. (Co-author J. Tutaj), *acta mechanica et automatica*, vol.x no.x (xxxx)
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### **Non-Published Works for Institutions and Industry**

1. Zastosowanie tranzystorow w ukladach napedowych (A transistors application in drive systems). Praca własna w Katedrze Elektrotechniki Gorniczej AGH prowadzona w 1961 roku (In Polish).
2. Tranzystorowy wzmacniacz pradu stałego typu modulator-demodulator (A transistor DC amplifier of the modulator-demodulator type). Praca własna w Katedrze Elektrotechniki Gorniczej AGH prowadzona w latach 1962-65 (In Polish).
3. Uklady do usuwania wzrostu napiecia podczas obciążenia podkrytycznego w przekształtnikach (Voltage-rise suppression systems during the critical load for static converters). Praca własna w Katedrze Elektrotechniki Gorniczej AGH prowadzona w latach 1960-61 (In Polish).
4. Tranzystorowy uklad sterowania i zabezpieczania przekształtników rtęciowych i poloprzewodnikowych (A transistor control and safeguard system for mercury-arc and semi-conductor static converters). Praca własna w Katedrze Elektro-techniki Gorniczej AGH prowadzona w latach 1961-62 (In Polish).
5. Projekt pierwszej krajowej maszyny wyciągowej z przekształnikami rteciami da KWK „Bolesław Smiały” (Project of a first country mine wiader with the mercury-arc static converters). Praca wykonana na zlecenie Jaworznicko-Mikołowskiego Zjednoczenia Przemysłu Węglowego w Mysłowicach prowadzona w latach 1962-63 (In Polish).
6. Tranzystorowy wzmacniacz pradu stałego z modulacją szerokości impulsów prostokątnych (A transistor DC amplifier with the rectangular pulse-width modulation). Praca własna w Katedrze Elektrotechniki Gorniczej AGH prowadzona w latach 1964-66 (In Polish).
7. Uklad proporcjonalnej regulacji predkosci obrotowej silnika pradu stałego zasilanego przez sterowane przekształtniki (A proportional angular-speed regulation system of a DC motor supplied by the controlled static converters). Praca własna w Katedrze Elektrotechniki Gorniczej AGH prowadzona w latach 1964-67 (In Polish).
8. Programowanie liniowe na elektronicznych maszynach liczących (Linear programming with an application of the analog computers). Praca wykonana na zlecenie Katedry Ekonomii Politycznej AGH prowadzona w 1965 roku (In Polish).
9. Tranzystorowy uklad automatycznego sterowania i regulacji predkosci obrotowej silnika asynchronicznego pierscieniowego (A transistor automatic angular-speed control and regulation system of the slip-ring asynchronous motor). Praca prowadzona w Katedrze Elektrotechniki Gorniczej AGH prowadzona w latach 1966-68 (In Polish).
10. Tranzystorowy uklad automatycznego sterowania i regulacji predkosci obrotowej silników asynchronicznych klatkowych w napedach przenosników (A transistor automatic angular-speed regulation and control system of the squirrel-cage asynchronous motor). Praca własna prowadzona w Katedrze Elektrotechniki Gorniczej AGH prowadzona w latach 1966-68 (In Polish).
11. A cybernetic automatic regulation and control system of the DC motor. Praca własna w Katedrze Elektrotechniki Gorniczej AGH prowadzona w latach 1965-67 (In Polish).
12. Uklad do tlumienia oscylacji wysokiej częstotliwości w przekształtnikach (High-frequency oscillation suppression system in the static converters). Praca własna w Katedrze Elektrotechniki Gorniczej AGH prowadzona w latach 1965-67 (In Polish).

13. Tranzystorowy sterownik tyristorow falownikow autonomicznych (A transistor controller of the autonomous inverter thyristors). Praca wykonana na zlecenie Zakladow Konstrukcyjno-Mechanizacyjnych Przemyslu Weglowego w Gliwicach prowadzona w latach 1966-68 (In Polish)
14. Tranzystorowy sterownik tyristorow przerwnika pradu stałego z modulacją częstotliwości powtarzania impulsów (A transistor controller of the DC chopper thyristors with the frequency pulse-repetition modulation). Praca własna w Zakładzie Automatyki Górnictwa Instytutu Automatyki Napedu i Urządzeń Przemysłowych AGH prowadzona w latach 1966-68 (In Polish).
15. Zalozenia dla opracowania dokumentacji koncepcyjnej dla polprzewodnikowego automatyzowanego napedu dla odlewu polciaglego miedzi (Assumptions for a semiconductor automatic drive for the copper samicontinuous casting). Praca wykonana na zlecenie Zakładu Automatyzacji i Mechanizacji Przemysłu Metali Niezelaznych w Kętach (In Polish).
16. Mutatorowy przemiennik częstotliwości o mocy 380 kVA wraz z tranzystorowa aparatura sterująca i regulacyjna (A mutator frequency changer with 380 kVA output and its transistor control and regulation apparatus). Praca wykonana na zlecenie Zakladow Konstrukcyjno-Mechanizacyjnych Przemyslu Weglowego w Gliwicach prowadzona w latach 1968-69 (In Polish).
17. Tyristorowy przemiennik częstotliwości o mocy 150 kVA wraz z tranzystorowa aparatura sterująca i regulacyjna (A thyristor frequency changer with 150 kVA output and its transistor control and regulation apparatus). Praca wykonana na zlecenie Zakladow Konstrukcyjno-Mechanizacyjnych Przemyslu Weglowego w Gliwicach prowadzona w latach 1968-72 (In Polish).
18. Koncepcja modernizacji napedu maszyny wyciągowej szybu P-1 Kopalni Miedzi „Polkowice” (A concept of the mine winder-drive modernization for the Copper Mine „Polkowice” Shaft P-1). Praca wykonana na zlecenie Kombinatu Górnictwo-Hutniczego Miedzi w Lubinie prowadzona w 1969 roku (In Polish).
19. Tyristorowy przekształtnik napedu elektrycznego pradu stałego o mocy 200 kW (A thyristor converter of the DC electric drive). Praca wykonana na zlecenie Zakladow Konstrukcyjno-Mechanizacyjnych Przemyslu Weglowego w Gliwicach prowadzona w latach 1967-69 i nagrodzona Nagrodą Rektora AGH w 1969 roku (In Polish).
20. Przewozny tyristorowy przemiennik częstotliwości do regulacji prędkości obrotowej silników asynchronicznych i synchronicznych (Mobile thyristor frequency changer for an angular-speed regulation of the asynchronous and synchronous motors). Praca wykonana na zlecenie Komitetu Nauki i Techniki w Warszawie prowadzona w 1969 roku (In Polish).
21. Statyczny układ Scherbiusa do napedu suszarki w KWB „Kalawsk” w Węglincu (A static Scherbius system for the continuous dryer in the Lignite Mine „Kalawsk”, Węglowiec). Praca wykonana na zlecenie COB-P Górnictwa Odkrywkowego „POLTEGOR” we Wrocławiu prowadzona w latach 1969-72 i nagrodzona Nagrodą Rektora AGH w 1972 roku (In Polish).
22. Problemy modernizacji i optymizacji napedu elektrycznego maszyn górnictwa odkrywkowego (Modernization and optimization problems of open-cast mining machines). Praca wykonana na zlecenie SII TG CBP Górnictwa Odkrywkowego „POLTEGOR” we Wrocławiu i KWB „Turow” w Turoszowie prowadzona w 1970 roku (In Polish).

23. A thyristor electric drive of the mining locomotives. Praca wykonana na zlecenie SIiTG CBP Gornictwa Odkrywkowego „POLTEGOR” we Wrocławiu i KWB „Turow” w Turoszowie prowadzona w 1970 roku (In Polish).
24. Symistorowo-tranzystorowy układ regulacji predkosci obrotowej silnika asynchronicznego pierscieniowego do napedu wentylatora tunelu aerodynamicznego (A symistor-transistor angular-speed regulation system of the slip-ring asynchronous motor for the aerodynamic tunnel ventilator drive). Praca wykonana na zlecenie Zakładu Mechaniki Gorotworu PAN w Krakowie prowadzona w latach 1970-72 (In Polish).
25. Tranzystorowy układ regulacji predkosci obrotowej silników asynchronicznych i synchronicznych (A transistor angular-speed regulation system of the asynchronous and synchronous motors). Praca własna w Zakładzie Automatyki Górnictwa Instytutu Automatyki Napedu i Urządzeń Przemysłowych AGH prowadzona w latach 1970-72 (In Polish).
26. Automatyzacja napedu mechanizmu obrotu koparki (Automatization of the excavator rotary mechanism). Praca wykonana na zlecenie SIiTG CBP Gornictwa Odkrywkowego „POLTEGOR” we Wrocławiu i KWB „Turow” w Turoszowie prowadzona w 1971 roku (In Polish).
27. Przemienniki częstotliwości dla napedu przenosników tasmowych (Frequency changers for the belt-conveyor drives). Praca wykonana na zlecenie SIiTG CBP Gornictwa Odkrywkowego „POLTEGOR” we Wrocławiu i KWB „Turow” w Turoszowie prowadzona w 1971 roku (In Polish).
28. Modernizacja napedu elektrycznego przenosników tasmowych w górnictwie odkrywkowym (Modernization of belt-conveyor drives in open-cast mining). Praca wykonana na zlecenie SIiTG CBP Gornictwa Odkrywkowego „POLTEGOR” we Wrocławiu i KWB „Turow” w Turoszowie prowadzona w 1971 roku (In Polish).
29. Modernizacja przenosnika zrzutowego zwalowarki ARaB-5000 (Modernization of the sifter ARsB-5000 conveyor). Praca wykonana na zlecenie SIiTG CBP Gornictwa Odkrywkowego „POLTEGOR” we Wrocławiu i KWB „Turow” w Turoszowie prowadzona w 1971 roku (In Polish).
30. Opracowanie podtematu „Napedy i sterowanie optymalne maszyn wyciągowych” do tematu „Kryteria doboru napedów elektrycznych w górnictwie z uwagi na wskaźniki techniczne i ekonomiczne” (An elaboration of the subtheme „Drives, and optimal control of the mine winders” for the theme „Selection criteria of electrical drives in mining from the viewpoint of technical and economical indices”). Praca wykonana na polecenie Prezydium Komitetu Górnictwa PAN w 1971 roku (In Polish).
31. Koreferat do projektu koncepcyjnego układu przetwarzającego prąd przemienny na prąd stały do zasilania elektromagnesów w Miedzynarodowym Laboratorium Silnych Pol Magnetycznych Instytutu Niskich Temperatur i Badań Strukturalnych PAN we Wrocławiu (Co-report to a concept project of the AC-to-DC converting system for electromagnet supply in International Laboratory of High Magnetic Fields, Institute of Low Temperature and Structural Investigations, PAN in Wrocław). Praca wykonana na zlecenie Miedzynarodowego Laboratorium Silnych Pol Magnetycznych Instytutu Niskich Temperatur i Badań Strukturalnych PAN prowadzona w 1971 roku (In Polish).
32. Statyczny układ Scherbiusa do napedu przenosnika zrzutowego zwalowarki ARsB-5000 w KWB „Turow” w Turoszowie (A static Scherbius system for the stacker's conveyor drive). Praca wykonana na zlecenie COP Górnictwa Odkrywkowego „POLTEGOR” we Wrocławiu prowadzona w latach 1971-72 (In Polish).
33. Zautomatyzowane stanowisko do badań sprzęgiel samochodu osobowego *FSM Syrena*. (An automated stand for clutches testing of the *FSM Syrena* passenger car). Praca

- wykonana na zlecenie OBR Samochodów Małolitrażowych w Bielsku-Białej prowadzona w latach 1972-73 (In Polish).
34. Efekty techniczno-ekonomiczne zastosowania energo-elektronicznego urządzenia obciążającego (Technical and economical effects of the energo-electronic loading device application). Praca wykonana na zlecenie OBR Sprzętu Komunikacyjnego WSK – PZL Mielec prowadzona w 1973 roku (In Polish).
35. Zautomatyzowane stanowisko do badań rozruszników samochodu osobowego *Polski FIAT 126p* (An automated stand for the starters testing of the *Polski PIAT 126p* passenger car). Praca wykonana na zlecenie OBR Samochodów Małolitrażowych w Bielsku-Białej prowadzona w 1973 roku (In Polish).
36. Układ elektroniczny umożliwiający rozruch i regulację prędkości jazdy wozka golfowego *Melex* (An electronic system for a starting and travel-speed regulation of the golf cart *Melex*). Praca wykonana na zlecenie OBR Sprzętu Komunikacyjnego WSK –PZL -- Mielec w Mielcu prowadzona w latach 1974-75 (In Polish).
37. Tyristorowy przerwnik prądu stałego (A thyristor DC chopper). Praca własna w Zakładzie Pojazdów Specjalnych Instytutu Pojazdów Samochodowych i Silników Spalinowych Politechniki Krakowskiej prowadzona w latach 1975-76 (In Polish).
38. Sterownik tyristorowego przerywnika prądu stałego (A thyristor DC chopper's controller). Praca własna w Zakładzie Pojazdów Specjalnych Instytutu Pojazdów Samochodowych i Silników Spalinowych Politechniki Krakowskiej prowadzona w latach 1974-76 (In Polish).
39. Zadajnik indukcyjny do sterowania napędu elektrycznego (An induction governor for the electric drive control). Praca własna w Zakładzie Pojazdów Specjalnych Instytutu Pojazdów Samochodowych i Silników Spalinowych Politechniki Krakowskiej prowadzona w latach 1975-76 (In Polish).
40. Badania trakcyjne i zakłocen radioelektrycznych samochodów ciężarowych *STAR* (Traction and radioelectronic interference investigations of the *STAR* trucks). Praca wykonana na zlecenie FSC Starachowice Prowadzona w latach 1975-76 (In Polish).
41. Badania stanowiskowe i trakcyjne samochodu miejskiego z napędem elektrycznym *Melex city-car* (Stand and traction investigations of a city automobile with the electric drive *Melex city-car*). Praca wykonana na zlecenie OBR Sprzętu Komunikacyjnego WSK –PZL-MIELEC w Mielcu prowadzona w latach 1975-76 (In Polish).
42. Badania elektrycznego samochodu miejskiego produkcji USA firmy *Sebring Vanguard citi-car* (Investigations of a city electric automobile *Vanguard citi-car* manufactured by *Sebring* in the USA). Praca wykonana na zlecenie OBR Sprzętu Komunikacyjnego WSK–PZL-MIELEC w Mielcu prowadzona w latach 1975-76 (In Polish).
43. Tyristorowy napęd elektryczny samochodu dostawczego *NYSA 522 electronic* (A thyristor electric drive for the *NYSA 522 electronic* van). Praca wykonana na zlecenie OBR Samochodów Dostawczych w Lublinie, Oddział Zamiejscowy w Nysie prowadzona w latach 1975-76 (In Polish).
44. Opinia projektu racjonalizatorskiego nr Ew. 2241/76 nt. „Zmiana sposobu rozruchu i regulacji predkosci obrotowej układu dwusilnikowego w wózkach WA-2001 – WPA-1312. Praca wykonana na zlecenie OBR Maszyn Transportowych i Ziemiańskich Kombinatu Przemysłowego Stalowa Wola prowadzona w latach 1976-78 (In Polish).
45. Tyristorowy napęd elektryczny dla wózków platformowych i widłowych (A thyristor electric drive for the platform and fork-lift trucks). Praca wykonana na zlecenie OBR Maszyn Transportowych i Ziemiańskich Kombinatu Przemysłowego Stalowa Wola prowadzona w latach 1976-78 (In Polish).
46. Tyristorowy napęd elektryczny dla wózków podnosnikowych WN-1206/7/8 (A thyristor electric drive for the fork-lift trucks). Praca wykonana na zlecenie Fabryki

Urządzeń Transportowych w Suchedniowie prowadzona w latach 1976-79 i zakończona wdrożeniem do produkcji seryjnej (In Polish).

47. Tester sterownika tyristorowego przerywnika prądu stałego wozka platformowego (A tester for the DC thyristor chopper controller of the platform truck). Praca wykonana na zlecenie OBR Maszyn Transportowych i Ziemnych Kombinatu Przemysłowego Stalowa Wola prowadzona w latach 1978-79 (In Polish).
48. Badania laboratoryjne i trakcyjne tranzystorowego zapłonu akumulatorowego dla samochodów *Polski FIAT 125p* i *126p*, oraz *Polonez* (Laboratory and traction investigations of the transistor storage-battery ignitron system for the passenger cars *Polski FIAT 125p* i *126p*, oraz *Polonez*). Praca wykonana na zlecenie Krakowskiej Fabryki Aparatury Pomiarowej MERA--KFAP prowadzona w 1979 roku (In Polish).
49. Badania stanowiskowe i trakcyjne ogumienia (Stand and traction investigations of the rubber tires). Praca wykonana na zlecenie ZOS "STOMIL" w Dębicy prowadzona w latach 1977-79 (In Polish).
50. Opracowanie i wykonanie prototypowego napedu hybrydowo elektrycznego dla autobusu miejskiego *AUTOSAN H10* (An elaboration and a manufacture of a prototype hybrid-electric drive for the city bus *AUTOSAN H10*). Praca wykonana w ramach Problemu Rządowego PR-8 (In Polish).
51. Opracowanie i wykonanie elektronicznego układu napedowego tachografu (An elaboration and a manufacture of the electronic tachograph drive system). Praca wykonana na zlecenie Sanockiej Fabryki Autobusów *AUTOSAN* prowadzona w 1986 roku (In Polish).
52. Opracowanie i wykonanie prototypowego układu automatycznej regulacji temperatury we wnętrzu autobusu *AUTOSAN H10* (An elaboration and a manufacture of an automatic temperature regulation system inside the autobus *AUTOSAN H10* body). Praca wykonana na zlecenie Sanockiej Fabryki Autobusów *AUTOSAN* prowadzona w 1986 roku (In Polish).
53. Recenzja wydawnicza książki pt. *Bezprzewodowa transmisja informacji* (Wireless Transmission of Information), Autorzy Igor Piotr Kurytnik i Mikołaj Karpinski, Wydawnictwo PAK, 2008. s. 228 (In Polish).
54. Recenzja wydawnicza książki pt., *Bezpieczeństwo informacji* (Information Safety). Autor: Mikołaj Karpinski, Wydawnictwo PAK, 2012 (In Polish).
55. Recenzja wydawnicza monografii: *Ujęcie systemowe dynamiki wielofunkcyjnego prądnico-rozrusznika silnika spalinowego pojazdu samochodowego* (Dynamical Systems Approach of a Multifunctional Generator/Starter for the Combustion Engine of an Automotive Vehicle). Autor Józef Tutaj; Redaktor naukowy: Bogdan Fijalkowski, Seria Mechanika, Monografia, 409, Wydawnictwo Naukowe Politechniki Krakowskiej im. Tadeusza Kościuszki, Kraków 2012 (In Polish).
56. Recenzja pracy habilitacyjnej: *Ujęcie systemowe dynamiki wielofunkcyjnego prądnico-rozrusznika silnika spalinowego pojazdu samochodowego* (Dynamical Systems Approach of a Multifunctional Generator/Starter for the Combustion Engine of an Automotive Vehicle). Autor **Józef Tutaj**, Seria Mechanika, Monografia, 409, Wydawnictwo Naukowe Politechniki Krakowskiej im. Tadeusza Kościuszki, Kraków 2012 (In Polish).
57. OPINIA o dysertacji dla uzyskania stopnia naukowego doktora nauk technicznych nt.: „TEORIA I MODELE MATEMATYCZNE BEZPRZEWODOWYCH SIECI SENSOROWYCH Z DOSTĘPEM LOSOWYM” Autor dysertacji: **Rajba Stanisław syn Wilhelma**. Dysertacja została opracowana na Narodowym Uniwersytecie Lotniczym Ministerstwa Edukacji i Nauki Ukrainy i obroniona przed Komisjąpecjalności 05.12.02 – Systemy i Sieci Telekomunikacyjne. Obrona odbyła się |28 sierpnia 2014 r.

na posiedzeniu Specjalizowanej Rady Naukowej D 26.062.17 na Narodowym Uniwersytecie Lotniczym, pod adresem 03680, Kijów, prospekt Kosmonauty Komarowa, 1, budynek 11, sala 111. Wyższa Szkoła Zawodowa w Nowym Sączu. Nowy Sącz 2014.

58. OPINIA o dysertacji dla uzyskania stopnia naukowego doktora nauk technicznych nt.: „METODY I MODELE ZAPEWNIENIA BEZPIECZEŃSTWA BEZPRZEWODOWYCH SIECI SENSOROWYCH” Autor dysertacji: Aleksander Marek Bogusław Dysertacja została opracowana na Narodowym Uniwersytecie Lotniczym Ministerstwa Edukacji i Nauki Ukrainy i przewidziana do obrony przed Komisją o specjalności 05.13.21 – Systemy Bezpieczeństwa Informacji. Obrona odbędzie się 30 sierpnia 2016 r. na posiedzeniu Specjalizowanej Rady Naukowej D 26.062.17 na Narodowym Uniwersytecie Lotniczym, pod adresem 03680, Kijów, prospekt Kosmonauty Komarowa, 1, budynek 11, sala 111.

## **Patents**

1. "Tranzystorowy uklad sterowania i zabezpieczania przekształników rteciovych i pol-przewodnikowych" (with J. Zawilinski), *Urzad Patentowy PRL, Opis patentowy* 49855, Kl. 21c3, 2 (H 02 j), Zglosz. 1964-02-20, Opubl. 1965-11-0277 (In Polish)
2. "Uklad do usuwania wzrostu napiecia podczas obciążenia podkrytycznego prostownikow", *Urzad Patentowy PRL, Opis patentowy* 50174, Kl. 21d2, 12/03 (H 02 n), Zglosz. 1964-02-20, Opubl. 1965-11-17 (In Polish)
3. "Uklad proporcjonalnej regulacji obrotow silnika pradu stałego zasilanego przez sterowane przekształtniki" (with L. Szklarski and P. Degeratu), *Urzad Patentowy PRL, Opis patentowy* 52156, Kl. 23c/01 59/01 (H 02 p), Zglosz. 1964-06-27, Opubl. 1966-10-20 (In Polish)
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作者 : [Fijalkowski, B. T.] 来源数据库 : 美国电气和电子工程师协会会议论文  
DOI : [10.1109/PET.1996.56 5928](https://doi.org/10.1109/PET.1996.565928) 原始语种摘要 : One of the trends in integrated high-and medium-power electronics (macro- and mesoelectronics) in transportation is towards novel AC-DC /DC-AC, DC-AC/AC-DC and AC-AC macrocommutators for electrically-powered and mechatronically-controlled intelligent main battle tank propulsion and dispulsion spheres, incorporating two automotive gas turbo-autoabsorb- or autodriveable flywheels that are based on the Fijalkowski turbine boosting system with the brushless AC commutatorless or AC-DC/DC-AC macrocommutator magneto-electric generators /motors, and two autodrive- or auto-absorbable sprocket wheels and two autodrive- or autoabsorbable tensioner wheels as well as fourteen autodrive or autoabsorbable road wheels with the brushless DC-AC/AC-DC or AC-AC macrocommutator magnetoelectric and reluctance. [http://d.scholar.cnki.net/detail/SPIETEMP\\_U/SPIE120813100734](http://d.scholar.cnki.net/detail/SPIETEMP_U/SPIE120813100734)
594. cnki.com.cn: Novel mobility and steerability enhancing concept of all-electric intelligent articulated tracked vehicles. 作 : [Fijalkowski, B. T.] 来源数据库 美国电气和电子工程师协会会议论文  
OI : [10.1109/IVS.20031212913](https://doi.org/10.1109/IVS.20031212913) 原始语种摘要 : All-Electric (A-E) Intelligent Articulated Tracked Vehicles (IATV) may be recently developed in order to enhance mobility and steerability performance of conventional articulated tracked vehicles (ATV), for instance, the Swedish Hagglunds Bv206 all-terrain articulated tracked personnel carrier and; the Russian Isimbai Vityaz cross-country coupled tracked vehicle (CTV). The mobility and steerability dynamics and mechanisms of these vehicles are complicated as well as for the ATV and CTV for predicting the basic steering performance on plane motion. In this paper, the author considers a novel tri-mode hybrid mobility and tri-mode hybrid steerability concept of A-E IATVs with Drive-By-Wire (DBW) All-Wheel-Driven (AWD) tracks. The IATV's unique Electro-Mechanic (E-M) steering mechanism. [http://d.scholar.cnki.net/detail/SPIETEMP\\_U/SPIE120812252230](http://d.scholar.cnki.net/detail/SPIETEMP_U/SPIE120812252230)
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BBW AWB Dispulsion for Future Automotive Vehicles," SAE Technical Paper  
2001-01-3321, 2001, doi:10.4271/2001-01-3321. Author(s): Bogdan Fijalkowski  
Affiliated: Krakow University of Technology Abstract: Current implementation of  
novel advanced electromechanically (E-M) activated brake-by-wire (BBW) all-  
wheel-driveable (AWB) dispulsion mechatronic control hyposystems may be com-  
paratively costly. Though, as the cost of macroelectronic commutator (macro-  
commutator) and microelectronic processor (micropocessor) based controllers  
becomes increasingly cheap, fixed with bettered short-stroke linear brake-force-  
actuator motors, novel advanced E-M-activated BBW AWB dispulsion mechatronic  
control hyposystems becomea potential practical choice in the not-too-distant future.  
The size and mass of these short-stroke tubular linear DC-AC macrocommutator  
brake-force-actuator E-M motors may be comparati-vely small and light,  
respectively, in the nearest future with bettered interior permanent magnet (IPM)  
materials. Specific advantages of the novel advanced E-M-activated BBW AWB  
dispulsion mechatronic control hyposystem are cleanliness, lack of fluid and  
flexibility. This paper presents a very advanced anti-lock and/or anti-spin BBW  
AWB dispulsion mechatronic control hyposystem with E-M-activated friction disc,  
ring and/or drum brakes for controlling not only the braking forces during normal  
riding and cornering but also the braking forces between the inner and outer  
motorized and/or generatorized wheels (M&GW) in a hard turn inde-pendently.  
Event: Automotive and Transportation Technology Congress and Exposition Sector:  
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the Crankless Prime Movers," SAE Technical Paper 2001-01-3421, 2001, doi:

- 10.4271/2001-01-3421. Author(s): Bogdan Fijalkowski. Affiliated: Krakow University of Technology. Abstract: Comprehensive back-ground and feasibility studies have been performed that show a novel very advanced automotive crankless prime mover, that is, a 2-, 4- or even 5-stroke thermodynamic cycle, twin-opposed-piston, crankless internal combustion engine (ICE), called the Fijalkowski engine-generator/motor (FE-G/M), has a great deal of potential in meeting and exceeding requirements for ride-by-wire (RBW) or x-by-wire (XBW) automotive mechatronic control system, com-prizing drive-by-wire (DBW) all-wheel-drive-able (AWD) propulsion as well as brake-by-wire (BBW) all-wheel-brakeable (AWB) dispulsion mechatronic control hypo-systems for smart automotive vehicles (AV), most of all, for hybrid electric vehicles (HEV). The paper is focusing on main innovations and trends for a ride-by-wire (RBW) or x-by-wire (XBW) automotive mechatronic control system, comprising drive-by-wire (DBW) all-wheel-driveable (AWD) propulsion as well as brake-by-wire (BBW) all-wheel-brakeable (AWB) dispulsion mechatronic control hyposystems, and magneto-rheological fluid (MRF) mechatronic translational-motion-to-rotary-motion (TM-RM) & rotary-motion-to-rotary-motion (RM-RM) commutator prime mover, that is, the FE-G/M. Event: Automotive and Transportation Technology Congress and Exposition Sector: Automotive Topic: Electronic control systems. Drivetrains, Continuously variable transmissions. (08.06.2014) <http://papers.sae.org/2001-01-3421/>
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734. SAE International: Magneto-Optic Tachometers for Automotive Vehicles' Chassis. Paper #: 2002-01-2227. Published: 2002-07-09. DOI: 10.4271/2002-01-2227. Citation: [Weglarski, W. Fijalkowski, B.], "Magneto-Optic Tachometers for Automotive Vehicles' Chassis," SAE Technical Paper 2002-01-2227, 2002, doi: 10.4271/2002-01-2227. Author(s): Wojciech Weglarski. Affiliated: Krakow University of Technology. Abstract: Anti-lock braking systems (ABS) are an accident evasion system (AES) that by incorporating relevant sensory systems (SS), for instance, such as magneto-optic (M-O) tachometers, accelerometers etc., can avoid wheel locking during hard braking in an emergency, especially when the road surface is slippery. Automotive vehicles (AV) lose steering when the front wheels

- (FW) lock. An ABS uses sensors at each wheel to monitor deceleration when the fluidomechanic (F-M) or electromechanic (E-M) drum, ring or disc brakes are applied. If any of the wheels begin to lock, the ABS will modulate the brake pressure or voltage, thus '*pumping*' the fluidomechanic (F-M) or electromechanic (E-M) drum, ring or disc brakes, respectively, at the rate faster than the average human driver (HD) could. This will allow the wheel to continue rotating so avoiding locking, and the wheel will remain to react to the steering wheel (SW). Event: International Body Engineering Conference & Exhibition and Automotive & Transportation Technology Congress. Sector: Automotive. Topic: Braking systems, Steering systems, Sensors and Actuators, Noise, Drivetrains, Vehicle dynamics. (08/06.2014) <http://papers.sae.org/2002-01-2227/>
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736. TRID: Title: INTELLIGENT AUTOMOTIVE SYSTEMS: DEVELOPMENT IN FULL-TIME CHASSIS MOTION SPHERES FOR INTELLIGENT VEHICLES. Accession Number: 00787603. Record Type: Component. Abstract: This discussion talks about intelligent automotive systems, chassis motion, and artificial intelligence. The author examines concepts dealing with four-wheel-steering, four-wheel-drive, four-wheel-brake suspension spheres, conversion spheres, and propulsion spheres. Supplemental Notes: Publication Date: 1997 Published By: Wiley, New York. Authors: [**Fijalkowski, Bogdan**]. Pagination: p. 125-142. Publication Date: 1997. Serial: [Advanced vehicles and infrastructure systems](#). TRT Terms: [Artificial intelligence](#); [Vehicle dynamics](#). Subject Areas: Data and Information Technology. Source Agency: UC Berkeley Transportation Library. Source Data: PATH Record Number 11851. Files: PATH. Last Modified: Mar 3, 2000 12:00AM. (08.06.2014) <http://trid.trb.org/view.aspx?id=649477>
737. marspapers.org: A CONCEPT OF THE ALL-ELECTRIC PRESSURIZED ARTICULATED TRIAD MARTIAN ROVING VEHICLE. [**Bogdan Thaddeus Fijalkowski**], Automotive Mechatronics Institution, Institute of Electrotechnics & Industrial Electronics, Faculty of Electrical & Computer Engineering, Thaddeus Kosciuszko Memorial Krakow University of Technology, Poland. Abstract: The extremely high-mobility extraterrestrial all-electric pressurized articulated triad Martian roving vehicle (MRV) "Bekker" type will be designed for the usage of maneuverability in overriding mounds of narrow ridges and anti-overturn stability on steep slopes. This MRV will be the train of two or three vehicle-units (VU) propelled electro-mechanically and coupled articulately with the aid of the mechatronically neural network (NN) fuzzy-logic (FL), that is, neuro-fuzzy (NF) mechatronically controlled articulation inter-unit (IU) electromechanical couplers (coupling joints) and/or steering mechanisms. The drive-by-wire (DBW) four-wheel drive (4WD) middle-unit (MU) will operate as single one, that is, like a lunar roving vehicle (LRV) "Bekker" type, as far as its mobility permits. The added DBW two-wheel

- drive (2WD) front- and/or rear-unit (RU) should not impair normal operation. The two or three VUs will be coupled when the human- and/or telerobotic-driver (H&TD) anticipates that the single 4WD MU cannot handle a certain terrain or obstacle, or failing that judgment, after a 4WD MU becomes immobilized. (08.06.2014) <http://www.mars papers. org/abstr/Fijalkowski 2001abstr. htm>
738. marspapers.org: A CONCEPT OF THE ALL-ELECTRIC PRESSURIZED ARTICULATED TRIAD MARTIAN ROVING VEHICLE. [Bogdan Thaddeus Fijalkowski]. Automotive Mechatronics Institution, Institute of Electrotechnics & Industrial Electronics, Faculty of Electrical & Computer Engineering, Thaddeus Kosciuszko Memorial Krakow University of Technology, Poland (08.06.2014) <http://www.marspapers.org/papers/ Fijalkowski 2001.pdf>
739. emp.etf.rs: ELEKTRIČNO TRODELNO VOZILO ZA ISPITIVANJE MARSA. [B.T. Fijalkovski, J.W. Krosnicki]. Politehnika Krakowska, Poljska. M.G. Bekkero dedicatum. Rezime Vanzemaljsko potpuno električno trodelno vozilo za ispitivanje Marsa (MRV) "Beker"-ovog tipa biće napravljeno za prelaska svih uzvišnja unutar uskih grebena i sa stabilnošću u pogledu prevrtanja na strmim nagibima. Ovo MRV ce biti početak razvoja za dva do tri vozila na elektromehanički pogon i spojnicama sa mekatroničkim prekidačkim logičkim upravljanjem na pojedinačnim elektro-mehaničkim spojnicama i/ili upravljackim mehanizmima. Autori razvijaju treću generaciju samohodnih VAP (Very Advanced Propulsion) sfera kao jedan od glavnih delova programa njihove samohodne tehnologije i automatizacije (ATA). Glavni naporis i razvoja (R&D) samih autora dostigli su najviši nivo dizajna i konstrukcije na novim eksperimentalnim planetarnim elektromehaničkim motori-zovanim vozilima bez prenosa sa gumama od isprepletane žice sa DC elektro-mehaničkim makro-komutatorima za felna motore koji su primjenjeni u samo-hodnom pogonu. Osnova elastičnosti točka od isprepletane žice se sastoji u jednoj ili vise kržnih traka od isprepletane žice napravljenih od vrlo jakih kompozitnih vlakana sa malim transvezalnim vijugama u obliku bureta, koji pokazuje svoje prednosti – gladak rad, mala masa unutar koncepta velike mobilnosti sa integriranim oprugama u vešanju, veliki otisak i odlično savladavanje prepreka. Ovaj rad takođe opisuje dizajn i konstrukciju novog koncepta planetarnih elektromehaničkih vozila bez prenosa sa gumama od isprepletane žice kao kompaktnim, sa velikim torzionim momentom, VAP sferama za vanzemaljska električna upravljana trozglobna vozila MRV "Beker"-ovog tipa. (08.06.2014) [http://emp.etf.rs/radovi/Semestarski/vlada\\_martac/5Vozilo za Mars.pdf](http://emp.etf.rs/radovi/Semestarski/vlada_martac/5Vozilo za Mars.pdf)
740. TRID: Title: DBW 4WD PROPULSION & BBW 4WB DISPULSION CONTROL SYSTEMS FOR INTELLIGENT VEHICLES. Accession Number: 00801626. Record Type: Component. Abstract: An intelligent vehicle (IV) has become increasingly sophisticated, incorporating a novel mobility enhancing concept, such as mechatronic predictive and adaptive drive-by-wire (DBW) four-wheel-driveable (4WD) propulsion and/or brake-by-wire (BBW) four-wheel-brakeable (4WB) dispulsion control systems using four individual estimated values of the steered, motorised and/or generatorised wheel (SM&GW) power, the use of which permits the human driver (HD) and/or tele-robotic driver (TD) to 'tune' the IV to improve and optimize its performance for active safety measures in a particular type of terrain or mission scenario because smooth IV acceleration and/or deceleration as well as specific fuel consumption (SFC) is kept by managing the four individual estimated values of the SM&GW power. To meet these requirements, the novel mechatronic predictive and adaptive DBW 4WD propulsion and/or BBW 4WB dispulsion control systems using four individual estimated values of the SM&GW power was found to

be effective. The paper describes the mechatronic predictive and adaptive DBW 4WD propulsion and/or BBW 4WB dispulsion control systems using four individual estimated values of the SM&GW power which provides efficient control for the novel automotive magneto-rheological fluid (MRF) translational motion (TM) to rotational motion (RM) or vice versa (TM-RM/RM-TM) commutator prime mover, that is, the crankless, '*boxer*' piston-type internal combustion engine (ICE) named the Fijalkowski engine so that a desired value of the ICE power is determined from four individual desired values of the SM&GW power. It is also easy to add the throttle-by-wire (TBW) traction and/or cruise (T&C) control mode to the above mentioned mechatronic prediction and adaptive control systems. The author selected neuro-fuzzy (NF) reasoning based motion control that is mechatronic predictive and adaptive DBW 4WD propulsion and/or BBW 4WB dispulsion control algorithmsto the mechatronically controlled IV. Fuzzy logic (FL) was chosen because of the following characteristics. It is easier to implement driver skills using NF reasoning based motion control than using conventional motion control algorithms. (A) For the covering abstract see ITRD E106484. Corporate Authors: EMPHATIC VENTURES 43 SHERIFOOT LANESUTTON COLDFIELD, BIR-MINGHAM B75 5DU United Kingdom. Authors: [FIJALKOWSKI, B T] Pagination: p. 8/8-8/15. Publication Date: 2000 Conference: TELEMATICS AUTOMOTIVE 2000, HELD 11-13 APRIL 2000, BIRMINGHAM, UK. VOLUME 2: SESSIONS 5-8: TRAFFIC MANAGEMENT, EMERGING TECHNOLOGIES, NAVIGATION AND COMPUTING, TELEMETRY AND CONTROL SYSTEMS. References (3). TRT Terms: Control; Development; Driver support systems; Driving; Mathematical models; Motor vehicle navigational aids. ITRD Terms: Control; Development; Driver assistance system; Driving (veh); Mathematical model. Subject Areas: Planning and Forecasting. Source Agency: Transport Research Laboratory Crowthorne House, Nine Mile Ride Wokingham, Berkshire RG40 3GA United Kingdom. Source Data: IRRD E106507. Files: ITRD Last Modified: Nov 8 2000 12:00AM. (09.06.2014) <http://trid.trb.org/view/2000/C/669878>

741. TRID:Title: ELECTRICALLY-ENERGISED AND MECHANICALLY-CONTROLLED AXLELESS AWL & AWS FULL-TIME CHASSIS MOTION SPHERES FOR SMART TRI-MODE SUPERCARS, Accession Number: 00777451. Record Type: Component. Abstract: This paper looks at the possibility of creating , through artificial intelligence, a vehicle that has: four-wheel drive, four-wheel brakes four-wheel steering, and four-wheel absorbable suspension. Supplemental Notes: Publication Date: 1997 Published By: J. Wiley, New York. Authors: [FIJALKOWSKI, B T & Krosnicki, J W]. Pagination: p. 40-49. Publication Date: 1997. Conference: International Conference on Road Vehicle Automation (2nd : 1995 : Bolton Institute) Road vehicle automation II : towards systems integration. TRT Terms: Antilock brake systems; Artificial intelligence; Vehicle dynamics. Subject Areas: Data and Information Technology. Source Agency: UC Berkeley Transportation Library. Source Data: PATH Record Number 16121. Files: PATH. Last Modified: Nov 17 1999 12:00AM. (09.06.2014) <http://trid.trb.org/view/1997/C/511136>
742. TRID: Title: ALL-WEATHER AND ALL-TERRAIN INTELLIGENT VEHICLE FOR LAW ENFORCEMENT APPLICATIONS. Accession Number: 00786306. Record Type: Component. Abstract: This paper describes Omnimobil, an all-weather and all-terrain intelligent vehicle, designed for law enforcement applications. The unit will have two types of moving modes: IR vision-based camera mode and US sonar mode. Fuzzy logic is used as the basis for the linguistic motion control's

propulsion, dispulsion, suspension and conversion spheres. Supplemental Notes: Publication Date: 1994 Published by: IEEE Service Center, Piscataway NJ. Corporate Authors: Daimler-Benz A.G., Mercedesstrade 136 Stuttgart-Unterturk Germany; Siemens Automotive Corporation; Subaru Kogyo Kabushiki Kaisha; Komatsu Seisakujo; European Strategic Programme of Research and Development in Information Technology; Massachusetts Institute of Technology; Department of Civil Engineering, 77 Massachusetts Avenue Cambridge, MA 02139 USA; Prometheus (Program); Ishikawajima Harima Jukogyo Kabushiki Kaisha; Applied AI Systems, Inc.; Universitat der Bundeswehr Munchen; Daihatsu Jidosha Kabushiki Kaisha; Fraunhofer-Institut fur Informations-und Datenverarbeitung; University of Michigan, Ann Arbor; Artificial Intelligence Laboratory Ann Arbor, MI 48109 USA; University of Illinois, Chicago; Intelligent Vehicle Highway Systems Laboratory Chicago, IL 60607 USA; Mazda Motor Corporation; Hiroshima Japan; Tohoku Daigaku; Matsushita Tsushin Kogyo Kabushiki Kaisha; Etak, Inc; Texas A&M University, College Station; Department of Electrical Engineering College Station, TX 77843 USA; University of California, Berkeley, Department of Electrical Engineering and Computer Sciences Berkeley, CA 94720 USA; Ecole nationale superieure des mines de Paris; Universitat der Bundeswehr Munchen. Institut fur Systemdynamic und Flugmechanik; Universite Paris-Sud; Universitat Koblenz-Landau; Michigan State University, East Lansing, MI 48824 USA; Michigan Department of Transportation; State Transportation Building, 425 West Ottawa Street, P.O. Box 30050 Lansing, MI 48909 USA; University of Maryland, College Park; Center for Automation Research College Park, MD 20742 USA; United States. Defense Advanced Research Projects Agency; United States. Army Engineer Topographic Laboratories; Centre de morphologie mathematique; Kuo li ching hua ta hsueh (Hsin-chu shih, Taiwan); Universitat de Girona; Technische Universitat Munchen, 21 Arcesstrasse 8000 Munich Germany; Universite de technologie de Compiegne; Institut national de recherche en informatique et en automatique (France); Centre d'automatique de Lille; Universitat der Bundeswehr Munchen. Fakultat fur Luft- und Raumfahrt-technik; Nanyang Technological University, School of Computer Engineering, Nanyang Avenue Singapore 639798 Singapore; St. Patrick's College (Maynooth, Ireland); Politechnika Krakowska, ul.Warszawska 24, Krakow Poland; University of Nottingham, Department of Psychology Nottingham NG7 2RD United Kingdom; Universidade do Porto; University College London, London United Kingdom; University of South-ampton; Transportation Research Group, Highfield Campus University Road Southampton SO17 1BJ United Kingdom; Tele Atlas B.V.; Keio Gijuku Daigaku; Castle Rock Consultants 18 Liberty Street SWLeesburg, VA 22075 USA; DRIVE (Program: European Communities). Authors: [Fijalkowski, Bogdan]. Pagination: p. 509-514. Publication Date: 1994. Conference: Intelligent Vehicles '94 Symposium. Proceedings of the Intelligent Vehicles '94 Symposium. Location: Paris , France. Date: 1994. TRT Terms: Autonomous land vehicles; Fuzzy logic; Fuzzy systems; Law enforcement; Suspension systems. Subject Areas: Security and Emergencies; Vehicles and Equipment. Source Agency: UC Berkeley Transportation Library. Source Data: PATH Record Number 7965. Files: PATH, STATEDOT. Last Modified: Mar 3, 2000 12:00AM. (09.06.20`14) [http://trid.trb.org/\\_view/1994/C/641459](http://trid.trb.org/_view/1994/C/641459)

743. TRID: Title: SMART ELECTROMECHANICAL CONVERSION ACTUATORS FOR INTELLIGENT ROAD VEHICLES: APPLICATION TO FRONT- AND/OR REAR WHEEL RACK-AND- PINION STEERING GEARS. Accession Number:

00640911. Record Type: Component. Availability: Find a library where document is available Order URL: Abstract: The improvement Four-Wheel-Steered (4WS) conversion automotive high- technology (high-tech) has made significant progress during the 1990s. An evolutionary factor behind this has been the increasing requirements for an active safety and a ride comfort of Intelligent Road Vehicles (IRV). A major contribution to this progress is the introduction and fast growing application rate of mechanically controlled and electrically powered Rack-and-Pinion (R&P) steering gears. As the standard incontrolled and fluidically powered R&P steering gear can only provide a constant assistance characteristic, whereas the IRV ideally requires a variable support, the introduction of mechanically controlled and electrically powered R&P steering gear is initiated, mainly to adapt the level of power assistance to the vehicle speed. To achieve these objectives a further increase in the flexibility and controllability of the R&P steering gear is required. Only the expanded use of Electronic Control Unit (ECU) combined with more complex smart electro-mechanical conversion actuators can make these objectives achievable. For the covering abstract see IRRD 859610. Corporate Authors: Pentech Press Limited Graham Lodge, Graham RoadLondon NW4 3DG United Kingdom. Authors: **[FIJALKOWSKI, B T Krosnicki, J W]** Pagination: p. 16-25. Publication Date: 1993. Conference: [ROAD VEHICLE AUTOMATION. PROCEEDINGS OF THE 1ST INTERNATIONAL CONFERENCE ON 24-26 MAY 1993, VEHICLE SYSTEMS RESEARCH CENTRE, SCHOOL OF ENGINEERING, BOLTON INSTITUTE, BOLTON, UK](#). ISBN: 0-7273-1806-3. TRT Terms: Automatic control; Automation; Automobiles; Conferences; Control; Design; Four wheel drive; Steering. Subject Areas: Design. Source Agency: Transport Research Laboratory, Crowthorne House, Nine Mile RideWokingham, Berkshire RG40 3GA United Kingdom. Source Data: 9311TR023E. Files: ITRD. Last Modified: Jan 24 1994 12:00AM. (10-06-2014) <http://trid.trb.org/view/1994/C/641459>
744. TRID: Title: ACTIVE SAFETY & RIDE COMFORT BETTERING OF INTELLIGENT ROAD VEHICLES BY CONVERSION & SUSPENSION AND PROPULSION & DISPULSION CONTROLS. Accession Number: 00640914. Record Type: Component. Availability: Find a library where document is available. Order URL: <http://worldcat.org/isbn/0727318063>. Abstract: In the 1990s, the Very Advanced Conversion (VAC) and the Very Advanced Suspension (VAS) as well as the Very Advanced Propulsion (VAP) and the Very Advanced Dispulsion (VAD) automotive high- technologies (high-tech) of mechatronics that combines mechanics and electronics have become remarkably advanced and can now be applied to Intelligent Road Vehicles (IRV). This improves active safety and ride comfort, steerability and stability. It also improves driveability and comfortability for passengers, and reduces Specific Fuel Consumption (SFC). The following are described: a) the Four-Wheel-Steered (4WS) conversion; b) the Four-Wheel-Activated (4WA) suspension; c) the Four-Wheel-Driven (4WD) propulsion) the Four-Wheel-Braked (4WB) dispulsion. (A) For the covering abstract see IRRD 859610. Corporate Authors: Pentech Press Limited, Graham Lodge, Graham RoadLondon NW4 3DG United Kingdom. Authors: **[FIJALKOWSKI, B T]** Pagination: p. 57-70. Publication Date: 1993. Conference: [ROAD VEHICLE AUTOMATION. PROCEEDINGS OF THE 1ST INTER-NATIONAL CONFERENCE ON 24-26 MAY 1993, VEHICLE SYSTEMS RE-SEARCH CENTRE, SCHOOL OF ENGINEERING, BOLTON INSTITUTE, BOLTON, UK](#). ISBN: 0-7273-1806-3. References (29). TRT Terms: Automatic control; Automation; Braking; Conferences; Control; Four wheel drive; Motors; Suspension systems.

Subject Areas: Data and Information Technology; Vehicles and Equipment. Source Agency: Transport Research Laboratory, Crowthorne House, Nine Mile Ride Wokingham, Berkshire RG40 3GA United Kingdom. Source Data: 9311TR027E. Files: ITRD. Last Modified: Jan 24 1994 12:00AM. (10.06.2014) <http://trid.trb.org/view/1993/C/384099>

745. TRID: Title: UNCONVENTIONAL INTERNAL COMBUSTION ENGINES FOR AUTOMOTIVE VEHICLES. Translated Title: NEKONVENCIO-NALNI MOTORI SUS ZA MOTORNA VOZILA. Accession Number: 00498179. Record Type: Component. Availability: Find a library where document is available. Order URL: <http://worldcat.org/issn/03501027>, Abstract: The article describes the use of two novel unconventional internal combustion engines for motor vehicles which provide a significant decrease in fuel consumption. It outlines the technical characteristics of an automotive gas turbine which is based on the **Fijalkowski** turbine boosting system and on the **Fijalkowski** engine, i.e. a crankshaftless rectilinear reciprocating internal combustion engine which converts mechanical energy supplied to the pistons into electrical energy. The use of both systems has been adjusted and tested on four-wheel-drive hybrid motor vehicles with 4 x 2 + 2 and 4 x 4 wheel arrangements called tetrota and designed by the author. Report Numbers: 81/82. Language: Serbian. Corporate Authors: Masinski Fakultet, Kragujevac, Serbia Yugoslavia. Authors: [Fijalkowski, B]. Pagination: p. 265-274. Publication Date: 1988. Serial: Motorna Vozila Motori. Volume: 1 Issue Number: 83 Publisher: Masinski Fakultet. ISSN: 0350-1027. TRT Terms: Combustion; Energy; Fuel consumption; Gases; Motors; Tests; Turbines. Subject Areas: Energy. Source Agency: Transport and Road Research Laboratory, Old Wokingham Road Crowthorne RG11 6AU, Berkshire England. Files: ITRD, TRIS. Last Modified: Sep 30 1990 12:00AM, (10.06.2014) <http://trid.trb.org/view/1988/C/313447>
746. TRID: Title: FUTURE HYBRID ELECTROMECHANICAL VERY ADVANCED PROPULSION SYSTEMS FOR CIVILIAN WHEELED AND TRACKED ALL-TERRAIN VEHICLES WITH EXTREMELY HIGH MOBILITY. Accession Number: 00465443. Record Type: Component. Availability: National Technical Information Service, 5301 Shawnee Road Alexandria, VA 22312 USA. Order Number: DE87010697. Abstract: The design and construction on experimental proof-of-concept hybrid electromechanical VAP (Very Advanced Propulsion) systems for civilian wheeled and tracked ATVs (All-Terrain Vehicles) with extremely high mobility are discussed. These systems were to be developed using VAP technology improvements to reach a level of performance considerably better than state-of-the-art hybrid electromechanical or fluidomechanical AP (Advanced Propulsion) systems. The use of these hybrid electromechanical VAP systems for civilian wheeled electrochemical VAP systems for civilian wheeled tracked ATVs with extremely high mobility opens up wide possibilities for improving fuel economy. Supplemental Notes: Conference held in Washington, D.C., 20 October 1986. Report Numbers: CONF-8610122. Corporate Authors: Department of Energy, 1000 Independence Avenue, SW Washington, DC 20585 USA. Authors: [FIJALKOWSKI, B T]. Pagination: p. 428-442. Publication Date: 1986. Conference: International Electric Vehicle Symposium (8th) TRT Terms: All terrain vehicles; Conferences; Experimental vehicles; Hybrid vehicles; Mobility; Tracked vehicles. Subject Areas: Energy; Highways; Planning and Forecasting; Vehicles and Equipment; I72: Traffic and Transport Planning. Source Agency: Energy Research Abstracts. Files: TRIS. Last Modified: Feb 29 1988 12:00AM. (10.06. 2014) <http://trid.trb.org/view/1986/C/278292>

747. TRID: Title: POWER ELECTRONICS PROPULSION SYSTEMS FOR ENERGY-SAVING AUTOMOTIVE VEHICLES. Accession Number: 00399893. Record Type: Component. Availability: Automotive Automotion Limited, 42 Lloyd Park Avenue Croydon CRO 5SB, Surrey England. Abstract: Today greater and greater demands are being placed on the automotive industry not only for safety, comfort, reliability, flexibility, durability and mobility, but also for energy saving, particularly liquid fuel economy of all automotive vehicles. From around 1980 pure electric and hybrid electric (HE) automotive vehicles for normal road and off-road traffic have been the most important products in the very advanced propulsion (VAP) field. As far as propulsion dynamotors and dynamotorized wheels are concerned, the greatest interest has been shown in very advanced power electronics propulsion systems (PEPSs) for energy-saving automotive vehicles (ESAVs) and this paper concentrates on such propulsion systems. Supplemental Notes: ISATA 84, "In Pursuit of Technical Excellence". Proceedings Volume 1. International Symposium on Automotive Technology and Automation with particular reference to Vehicle Management Systems and Flexible Manufacturing Systems, Milan, Italy 24-28 September 1984. Report Numbers: ISATA 84016 HS-038 434. Corporate Authors: Automotive Automotion Limited, 42 Lloyd Park Avenue Croydon CRO 5SB, Surrey England; Alfa Romeo Auto SpA, Milan Italy. Authors: **[Fijalkowski, B]**. Pagination: p. 271-289. Publication Date: 1984. Conference: ISATA 84, "In Pursuit of Technical Excellence". Proceedings Volume 1. International Symposium on Automotive Technology and Automation with particular reference to Vehicle Management Systems and Flexible Manufacturing Systems, Milan, Italy 24-28 September. References (12). TRT Terms: Automobile industry; Electric vehicles; Electronic control; Fuel conservation; Hybrid vehicles; Propulsion; Vehicle power plants. Uncontrolled Terms: Propulsion systems. Subject Areas: Energy; Safety and Human Factors; Vehicles and Equipment. Source Agency: National Highway Traffic Safety Administration, 1200 New Jersey Avenue, SE Washington, DC 20590 USA. Files: HSL, USDOT. Last Modified: Oct 31 1985 12:00AM. (10.06.2014) <http://trid.trb.org/view/1984/C/218459>
748. TRID: Title: DRIVE ELECTRIC 80. CONFERENCE PAPERS. SESSION CONTROLLER AND CHARGER TECHNOLOGY. Accession Number: 00335307. Record Type: Monograph. Abstract: The following papers were presented at session 5: Minimisation of electrical losses in a battery electric vehicle (Morton,J, Jones, J and Watson,C); The drive system of the DOE near-term electric test vehicle (ETV-1) (Wilson,JWA); Controller and charger developments for the commercial electric vehicle (Shaw,F); The simple propulsion system - an alternative to the full electronic version? (Schmidhuber, KD); Thyristor control for "melex" electric cars (Staruch, S and Fijalkowski, BT). (TRRL). Report Numbers: Monograph. Corporate Authors: Drive Electric 80, 30 Millbank London England. Authors: Morton, J; Jones, J; Watson, JWA; Wilson, JWA; Shaw, F; Schmidhuber, K D; Staruch, S; **[FIJALKOWSKI, B T]**. Editors: R E Halliwell. Pagination: n.p. Publication Date: TRT Terms: Battery chargers; Conferences; Electric vehicles; Propulsion; Vehicle power plants. Uncontrolled Terms: Controllers; Propulsion systems. ITRD Terms: Battery; Catalytic converter; Conference; Delivery vehicle; Electric vehicle; Motor; Poland; Propulsion; Speed; USA. Subject Areas: Energy; Highways; Vehicles and Equipment. Source Agency: Transport Research Laboratory, Crowthorne House, Nine Mile Ride, Wokingham, Berkshire RG40 3GA United Kingdom. Source Data: IRRD 253514. Files: ITRD, TRIS. Last Modified: Nov 23 1981 12:00AM. (10.96.2014) <http://trid.trb.org/view/unknown year/M/165566>

749. InfoEach.com: Novel AC-DC/DC-AC, DC-AC/AC-DC and AC-AC Macrocommutators for Intelligent Main Battle Tank Propulsion and Dispulsion. 作者: 科技文献 资料网 时间: 2014-06-10 18:39:52 浏览: 9475 来源: 科技文献 资料网会议名称]: 1966 IEEE Workshop on Power Electronics in Transportation, Dearborn, MI, October 24-25, 1996[来源]:POWER ELECTRONICS IN TRANS-PORATION, pp 191-198 [编辑者]: CIEEE [主办单位]: IEEE Ind Electr Soc; IEEE Power Electr Soc [BT Fijalkowski] <http://rep281.infoeach.com/view-MjgxfDI5Mzg0MzA=.ht ml>
750. InfoEach.com: Electrically-Energized and Mechanically-Controlled Axleless AWD and AWS Full-Time Chassis Motion Spheres for Smart Tri-Mode Supercars. 作者: 科技文献 资料网 时间: 2014-06-10 18:45:44 浏览: 9156 来源: 科技文献 资料网 下载地址: [点击此处下载](#) [唯一标识符]: CDSTIC. ISTP. 1674583 [文献来源]: 科学技术会议录索引 (ISTP) [文献类型]: 科技会议 [标题]: Electrically-Energized and Mechanically-Controlled Axleless AWD and AWS Full-Time Chassis Motion Spheres for Smart Tri-Mode Supercars [作者]: BT Fijalkowski; JW Krosnicki [出版单位]: John Wiley & Sons Ltd Chichester [ISSN\_ISBN]: 0-471-96726-2 [会议名称]: 2nd International Conference on Road Vehicle Automation (ROVA 95), Bolton, England, September 11-13, 1995[来源]:ROAD VEHICLE AUTOMATION II - TOWARDS SYSTEMS INTEGRATION, pp 40-49 [编辑者]: ECO Nwagboso [主办单位]: Inst Phys; Int Series Road Vehicle Automat; ITS FOCUS Ltd UK; Soc Automotive Engineers, UK Sect [地址]: [BT Fijalkowski] Cracow\_Univ\_Technol, Fac Mech Engn, Krakow, Poland <http://rep274.infoeach.com/view-Mjc0fDMwOD g3Mjk=.html>
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Professor Dr Bogdan T. Fijalkowski was born in 1932 in Poland. He obtained MSc in Electrical Engineering, PhD in Power Electronics and DSc in Physical Heterogeneous Discrete Dynamical Systems from Szczecin University of Technology in 1959, Academy of Mining and Metallurgy in 1965 and Poznan University of Technology in 1988, respectively. He began his professional and electrical engineering carrier in 1955. He has been working 5 years in industry and 50 years in academia; he was the Director of the Electrotechnics & Industrial Electronics Institute, Faculty of Electrical and Computer Engineering and he was the Head of Automotive Mechatronics Institution, Faculty of Mechanical Engineering at the Cracow University of Technology, Poland. He was a visiting professor at several well-known universities. He serves as Consultant to several organizations in Poland and the United States. He is the signatory of the MoU for the establishment of World Electric Vehicles Association (WEVA). He was Guest Editor of Journal of Circuits, Systems and Computers - Special Issue on Automotive Electronics, Reviewer and Referee, IEEE Transactions on Circuits and Systems – Part I, IEEE Transactions on Fuzzy Systems, International Journal of Vehicle Design, USA, International Journal on Advanced Robotic Systems and International Journal of Technology Management (IJTM), USA. Reviewer of books and book chapters on "Automotive Electrics and Electronics", "Electric Drives Systems Dynamics", "Wireless Information Transmission" as well as "Information Security", and is listed in "Who's Who in the World", "Who's Who in Science and Engineering" and so on. He has published 32 books and book chapters as well as over 200 technical papers and 25 patents on mining and automotive electrics and electronics as well as mechatronics. Recent publications by him include books (monographs), book chapters, journal articles, and conference proceedings on topics such as mathematical models of selected aerospace and automotive discrete dynamical hypersystems as well as the civil and military, wheeled and tracked all-electric and hybrid-electric vehicles and also nano-magneto-rheological fluid (NMRF) mechatronic commutator, 'crankless' internal combustion engines with energy storage, termed the Fijalkowski engines and automotive gas turbines that are based on the Fijalkowski turbine boosting (FTB) system. In the year 2010/11, 'Springer' published his two volumes' book entitled "Automotive Mechatronics Operational and Practical Issues, which has been translated to Chinese in 2017. In the years 2016 and 2019 'IOP Publishing Ltd.' published his two interdisciplinary books entitled "Mechatronics: Dynamical systems approach and theory of holors" and "The Integrated Electro-Mechanical Drive: A mechatronic approach", respectively. He made valuable contributions to several of ASME, ISATA, ISTVS, SAE, IEEE SMC as well as EVS and WEVA conferences as a track and/or session chair and speaker and was always a pleasure to work with. A great communicator, always candid and thoughtful in his interactions with others, he was an inspiration for many of scientists. He had just accepted once again to chair a session at next conferences and scientists will accept his cheerful presence and intelligent participation. His hobby is yachting. He has the Rank of Ocean-Going Yacht Master.

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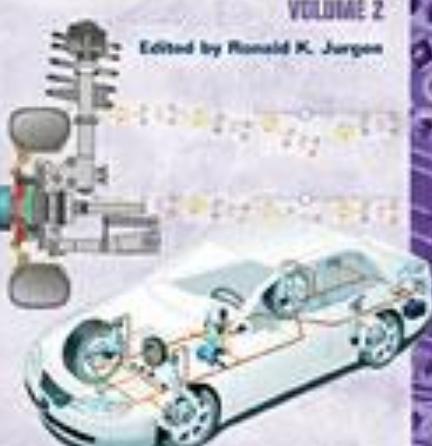
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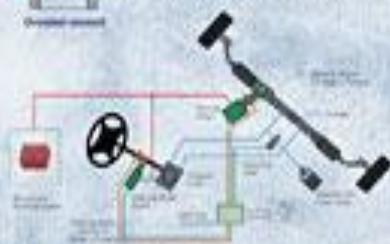
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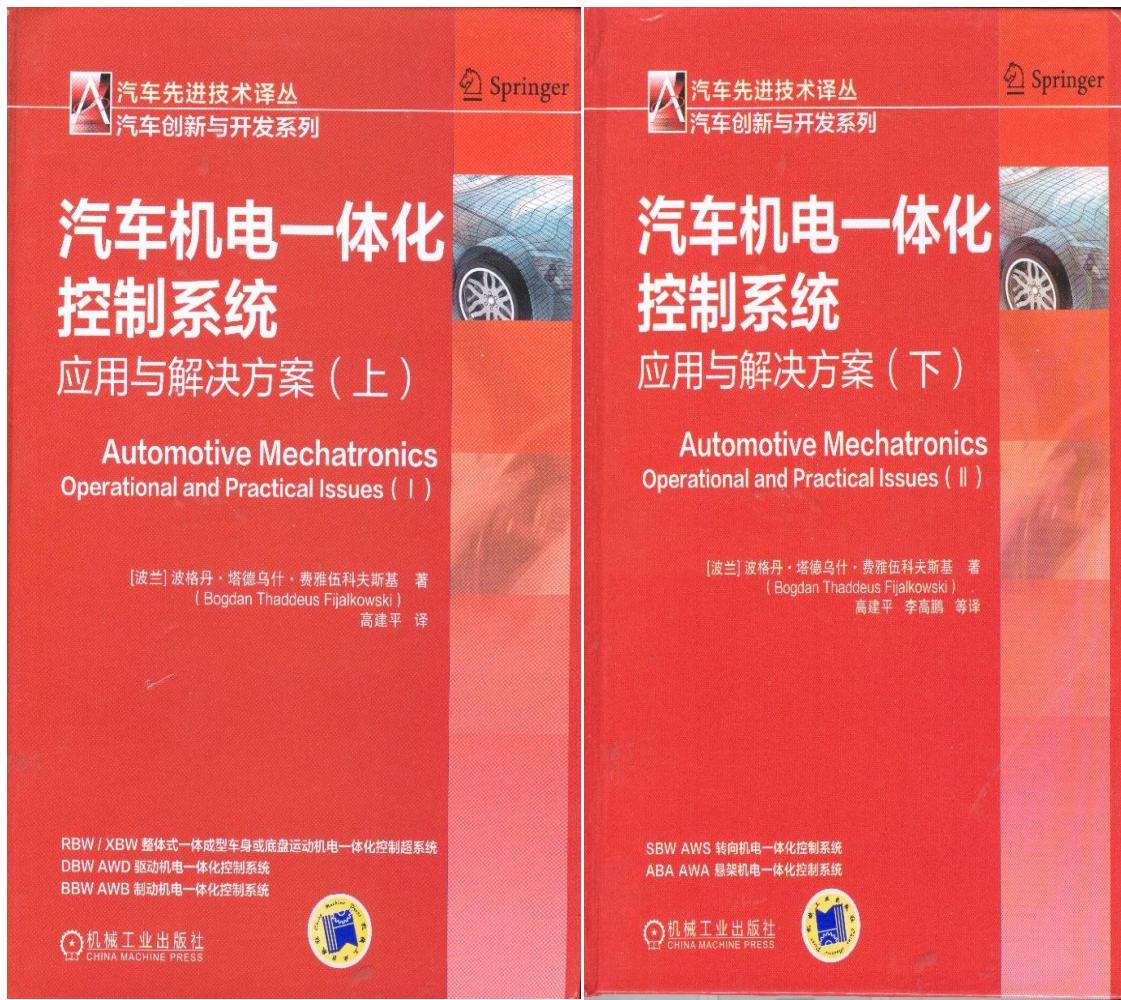
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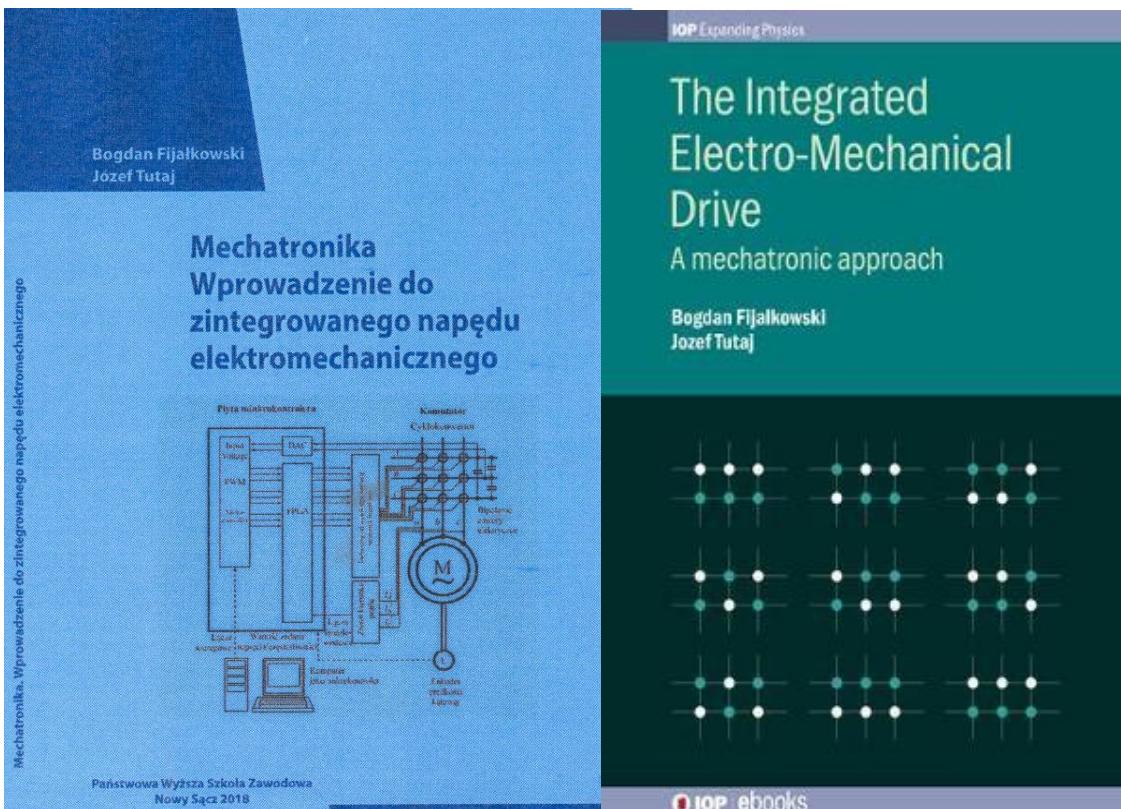
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