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 Technolo-giczny), 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 Wyzsza Szkola Zawodowa), Nowy Sacz, Poland

Vocational Experience

"Mercury-arc and Thyristor Converters Training", Swedish Government's Scientific Scholarship at Allmănna Svenska Elektriska Aktiebolaget (ASEA) Works in Ludvika and Kungliska Tekniska Hõgskolan (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), Jablonna, Poland, 17-22.10.1966

"International Training on Thyristor Converters", organised by ASEA, at present ABB, Văsterås, Sweden, January/February, 1972

"International Course on Contemporary Problems in Mechanics of Great Systems" ("*Międzynarodowy kurs n.t. Wspolczesne problemy mechaniki wielkich systemow*"), organised by Polish Academy of Sciences (Polska Akademia Nauk), Jablonna, 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 suspen-sion control system with magnetorheological elements).* Politechnika Krakowska, 2006 (In Polish)

Reviever and Referee of PhD theses:
Paszkowski J.: *Wyznaczanie niewspolosiowosci czesci mechanicznych samochodowych rozdzielaczy zapłonu metoda pomiarow rownomiernosci iskieri katow 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
Juszczyk W.: *Zastosowanie silnika zasilanego z przemiennika czestotliwosci do napedu cementowego pieca obrotowego.* Instytut Elektrotechniki, Warszawa-Miedzylesie, 1996 (In Polish)
Reviever and Referee of DSc disertations:
Józef Tutaj: - *Ujecie 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).* Seria Mechanika, Monografia, 409, Wydawnictwo Naukowe Politechniki Krakowskiej im. Tadeusza Kosciuszki, Krakow 2012 (In Polish).

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, Wyzsza Szkola Inzynierska, Opole 1981 (In Polish)

Horecki S.: *Elektrotechnika samochodowa (Automotive Electrics)*. Skrypt Uczelniany Nr 67 & 137, Wyzsza Szkola Inzynierska, 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 (Elektrotechnics and Electronics in Motorization)*. Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 1995 (In Polish)

Szklarski L., et al.: *Automatyka Napedu Elektrycznego (Electric Drive Automation)*, Wydawnictwa Akademii Górniczo-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)* Wydaw-nictwo PAK, Gliwice 2012 (In Polish)

Tutaj J.: *Ujecie 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 Kosciuszki, 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 (Naczelna 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 (Oddzial 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, Ogolnopolska Konferencja Naukowa -- "KONMOT '76": 'Postep w badaniach pojazdow samochodowych' (All-Poland Scientific Conference -- "KONMOT '76": 'Progress in research of automotive vehicles'), Krakow-Kroscienko-Szczawnica, Poland (20-23 October 1976)

Member, Scientific Committee, The 10th International Electric Vehicle Symposium – EVS-10, Hong Kong (3-5 December 1990)

Member, Programme Committee, 24th International Symposium on Automotive Technology and Automation - ISATA, International Dedicated Conference on Mechatronics, Florence Italy (20-24 May 1991)

Member, Programme Committee, 24th 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, 25th International Symposium on Automotive Technology and Automation - ISATA, International Dedicated Conference on Mechatronics, Florence - Italy (1-5 June 1992)

Member, Programme Committee, 25th 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 11th International Electric Vehicle Symposium, Florence - Italy (27-30 September 1992)

Member, ROVA'93 Committees, 1st International Conference on Road Vehicle Automation -- ROVA'93 International, Bolton - UK (24-26 May 1993)

Member, Programme Committee, 26th International Symposium on Automotive

Technology and Automation - ISATA, International Dedicated Conference on Mechatronics, Aachen - Germany (13-17 September 1993)

Member, Programme Committee, 26th 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 Napedy Pojazdow 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, 27th International Symposium on Automation -- ISATA, International Dedicated Conference on Mechatronics, Aachen -- Germany (31 October - 4 November 1994)

Member, Programme Committee, 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)

Member, Programme Committee, 27th 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 Napedy Pojazdow 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 pazdziernika 1994)

Member, Programme Committee, 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)

Member, Programme Committee, 27th 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, 2nd 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 (18th - 22nd September 1995)

Member, Programme Committee, 29th International Symposium on Automotive Technology and Automation -- ISATA, International Dedicated Conference on Mechatronics, Florence -- Italy (3rd - 6th 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 (pazdziernik 1996)

Member, Programme Committee, 30th International Symposium on Automotive Technology and Automation -- ISATA, International Conference on Mechatronics, Florence - Italy (16th - 19th June 1997)

Member, Programme Committee, 30th International Symposium on Automotive Technology and Automation -- ISATA, International Conference on Electric, Hybrid and Alternative Fuel Vehicles, Florence - Italy (16th - 19th June 1997)

Member, Programme Committee, 31st International Symposium on Automotive Technology and Automation - ISATA, Programme Track on Automotive Mechatronics Design & Engineering, Düsseldorf - Germany (2nd - 5th June 1998)

Member, Programme Committee, 31st International Symposium on Automotive Technology and Automation -- ISATA, Programme Track on Advanced Manufacturing in the Automotive Industry, Düsseldorf -- Germany (2nd - 5th 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 Advan-ces 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 Eksploatacja Pojazdow Samochodowych i Silników Spalinowych u Progu XXI Wieku', Zakopane -- Poland (14-17 pazdziernika 1998)

Member, Programme Committee, 32nd International Symposium on Automotive Technology and Automation -- ISATA, Programme Track on Automotive Mechatronics Design & Engineering, Vienna -- Austria (14-18 June 1999)

Member, Programme Committee, 32nd 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, 32nd 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, 4th 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 Ksztalcenia i Badan w Zakresie Zastosowan 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 Eksploatacji 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, Eksploatacja, 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, 24th 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, 24th 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, 25th International Symposium on Automotive Technology and Automation - ISATA, International Dedicated Conference on Mechatronics, Florence - Italy (1-5 June 1992)

Chairman, Session on Hybrids, the 11th 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 (Vth 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, 26th 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, 26th 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: Niekon-wencjonalne napedy pojazdów i maszyn roboczych, Warszawa -- Poland, (18 III 1994)

Chairman, Sessions on Integrated Chassis Control, 27th 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 Dedi-cated Conference on Electric, Hybrid and Alternative Fuel Vehicles, Aachen -- Germany (31 October -- 4 November 1994)

Chairman, Session on Computer Vision and Image Understanding II, 2nd Inter-national Conference on Road Vehicle Automation -- ROVA'95 International, Bolton -- UK (11-13 September 1995)

Chairman, Session on Automotive Sensors and Mechatronics, 2nd International Conference on Road Vehicle Automation - ROVA'95 International, Bolton -- UK (11-13 September 1995)

Chairman, Sessions on Integrated Chassis Control I & II, 28th International Symposium on Automotive Technology and Automation -- ISATA, International Dedicated Conference on Mechatronics, Stuttgart -- Germany (18th - 22nd 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 (18th - 22nd September 1995)

Chairman, Session on Noise, Vibration and Crush Analyses, 29th International Symposium on Automotive Technology and Automation -- ISATA, International Dedicated Conference on Mechatronics, Florence - Italy (3rd - 6th June 1996)

Chairman, Session on Manufacturing & Machining Aspects, 29th International Symposium on Automotive Technology and Automation -- ISATA, International Dedicated Conference on Mechatronics, Florence -- Italy (3rd - 6th June 1996)

Chairman, Sessions on Flexible Manufacturing, 29th International Symposium on Automotive Technology and Automation -- ISATA, International Dedicated Conference on Mechatronics, Florence -- Italy (3rd - 6th 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, 30th International Symposium on Automotive

Technology and Automation -- ISATA, International Dedicated Conference on Hybrid, Electric and Alternative Fuel Vehicles, Florence -- Italy (16th - 19th June 1997)

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

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

Chairman, Session on Supporting Systems -- II, 32nd International Symposium on Automotive Technology and Automation -- ISATA, Vienna -- Austria (14th -- 18th 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 ()ctober 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 Pojazdow Mechanicznych i Transportu WAT -- POJAZDY 2009 -- “Doskonalenie konstrukcji oraz metod eksploatacji pojazdow mechanicznych” (X International Symposium VEHICLES 2009), przy wspolpracy z Wolgogradskim Panstwowym Uniwersyte-tem Technicznym, Rynia -- Poland (15 – 17 czerwca 2009 r.)

Co-chairman (Chairman - Professor L. A. Sinicki), Session on Mathematical Modelling and Computer Simulation, 3rd 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 -- 50th Anniversary Jubilee Honorary Mark of Distinction, Academic Sport Union (Akademicki Zwiazek 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 -- 20th Anniversary of Employment in National Education Jubilee Award (1958-1978)

Recipient, 1984 -- 25th Anniversary of Employment in National Education Jubilee Award (1958-1983)
Recipient, 1986 -- The Rector of Cracow University of Technology's Award
Recipient, 1988 -- 30th 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 -- 35th Anniversary of Employment in National Education Jubilee Award (1958-1993)
Recipient, 1995 -- 50th 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 -- 45th Anniversary of Employment in National Education Jubilee Award (1958-2003)

Concise biographical information

FIVE THOUSAND PERSONALITIES OF THE WORLD, Edition Three, The American Biographical Institute, Inc. 1992

MEN OF ACHIEVEMENT, 1993/94, Fifteenth Edition, Published by The International Biographical Centre, Cambridge, England, 1992

WHO IS WHO IN THE WORLD

WHO IS WHO IN ENGINEERING

WHO IS WHO W POLSCE, Hübners blaues Who is Who, Schweiz, 2002

ZLOTA KSIEGA NAUKI POLSKIEJ 2000, Naukowcy przełomu wiekow, Helion, 2000

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11. A cybernetic automatic regulation and control system of the DC motor. Praca wlasna w Katedrze Elektrotechniki Gorniczej AGH prowadzona w latach 1965-67 (In Polish).
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41. Badania stanowiskowe i trakcyjne samochodu miejskiego z napedem 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).
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advancedE-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: Automotive Topic: Braking systems, Electronic control systems. (08.06. 2014) http://papers.sae.org/ 2001-01-3321/

732. SAE International: Very Advanced Automotive Powertrains with the Crankless Prime Movers. Paper #: 2001-01-3421 Published: 2001-10-01. DOI: 10.4271/ 2001-01-3421. Citation: **[Fijalkowski, B.]**, "Very Advanced Automotive Powertrains with 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/

733. SAE International:Tri-Mode Hybrid SBW AWS Diversion Mechatronic Control for Future Automotive Vehicles. Paper #: 2002-01-2213. Published: 2002-07-09. DOI: 10.4271/2002-01-2213. Citation: **[Fijalkowski, B.]**, "Tri-Mode Hybrid SBW AWS Diversion Mechatronic Control for Future Automotive Vehicles," SAE Technical Paper 2002-01-2213, 2002, doi: 10.4271/2002-01-2213. Author(s): Bogdan Fijalkowski. Affiliated: Krakow University of Technology. Abstract: An automotive vehicle steering is achieved not only by means of hand steering wheel (SW) but also by varying actual valued of the angular velocity and sense of rotation of all the electromech-anical/mechanoelectrical (E-M/M-E) steered, motorized and/or gen-eratorized wheels (SM&GW) for all-wheel driven (AWD) × all-wheel steered (AWS) automotive vehicles. The betterment tri-mode hybrid steer-by-wire (SBW) AWS diversion automotive high-tech has made significant progress during the 1990s. An

evolutionary factor behind this has been the increasing requirements or an active safety as well as ride comfort and handling (RC&H) of automotive vehicles. A major contribution to this progress is the introduction and fast growing application rate of electrically powered and mechatronically controlled rack-and-pinion (R&P) steering gears. Event: Inter-national Body Engineering Conference & Exhibition and Automotive & Transportation Technology Congress. Sector: Automotive. Topic: Braking systems, Steering systems, Four wheel steering, Noise, Drivetrains, Vehicle dynamics. (08.06.2014) http://papers.sae. org/2002-01-2213/

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 avoid-ing 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/

735. The European Library: Automotive mechatronics: OPERATIONAL AND PRACTICAL ISSUES. Harvard-Style Citation **[Fijałkowski, B., 2011]**. Automotive mechatronics: operational and practical issues. Heidelberg: Springer. Services Follow At Contributor Follow See other versions (8). CORE Similar in CORE Mendeley Add to Mendeley Zotero Add to ZOTERO. Description Includes bibliographical references and indexes. Creator Bogdan. Fijałkowski. ISBN 9789400704084 9789400711822. NBN - National bibliography number GBB105469. Location 4549.257730 4549.257730 vol. 1 (B) 629.89 v.47 (B) 629.89 4549.25773047 (2011). (08.06.2014 http://www.theeuropeanlibrary.org/tel4/record/2000001104648?Classificationcerif=T004&contentlanguage=eng&providerid=P01264&linklevel=CATALOGUE_RECORD

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 Technol-ogy, 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]**. Politechnika Krakowska, Poljska. M.G. Bekkero dedicatum. Rezime Vanzemaljsko potpuno električno trodelno vozilo za ispitivanje Marsa (MRV) “Beker”-ovog tipa biče napravljeno za prelaske svih uzvišnja unutar uskih grebena i sa stabilnošču u pogledu prevrtanja na strmim nagibima. Ovo MRV ce biti početak razvoja za dva do tri vozila na elektro-mehanički pogon i spojnicama sa mekatroničkim prekidačkim logičkim upra-vljanjem na pojedinačnim elektro-mehaničkim spojnicama i/ili upravljackim mehanizmima. Autori razvijaju treču generaciju samohodnih VAP (Very Advanced Propulsion) sfera kao jedan od glavnih delova programa njihove samohodne tehnologije i automatizacije (ATA). Glavni napori ispitivanja 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 primenjeni 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 integrisanim oprugama u vešanju, veliki otisak i odlično savladavanje prepreka.Ovaj rad takodje 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_Ma rs.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 wellas 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 MANAGE-MENT, 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-CON-TROLLED 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 LaboratoryAnn Arbor, MI 48109 USA; University of Illinois, Chicago; Intelligent Vehicle Highway Systems LaboratoryChicago, 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

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 INTELLI-GENT 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 CONFER-ENCE 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

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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**.** Re**v**iewer 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 matheatical 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 theoty of holors" and "The Integrated Electro-M3chanical 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 hobbyi s yachting. He has the Rank of Ocean-Going Yacht Master.

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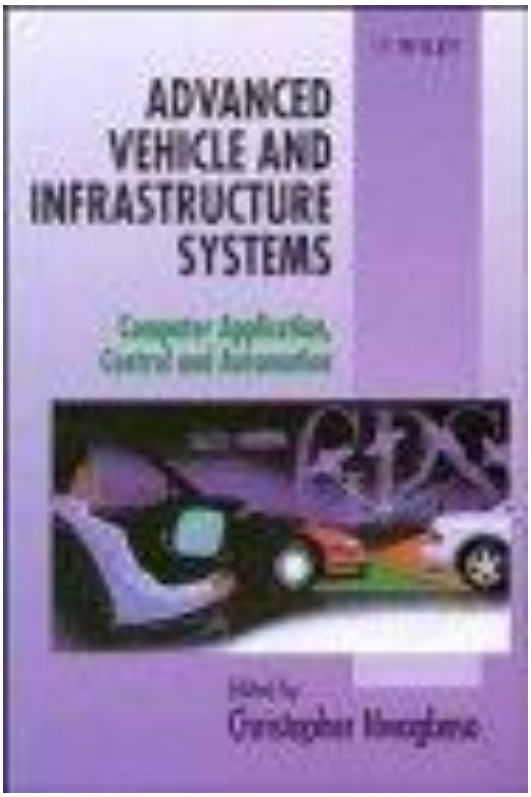

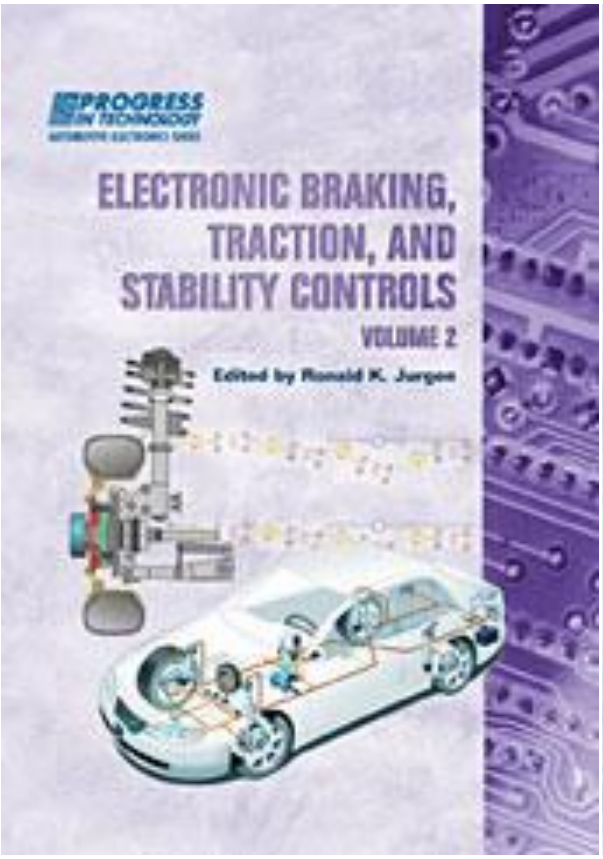

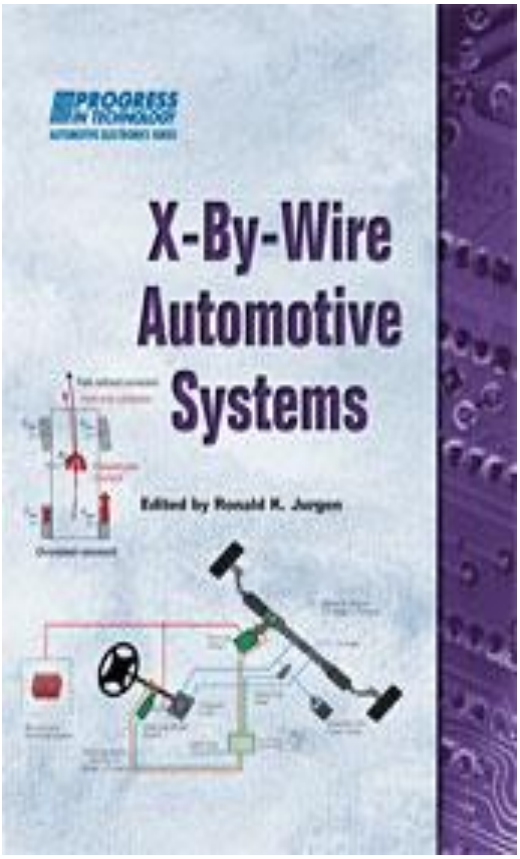

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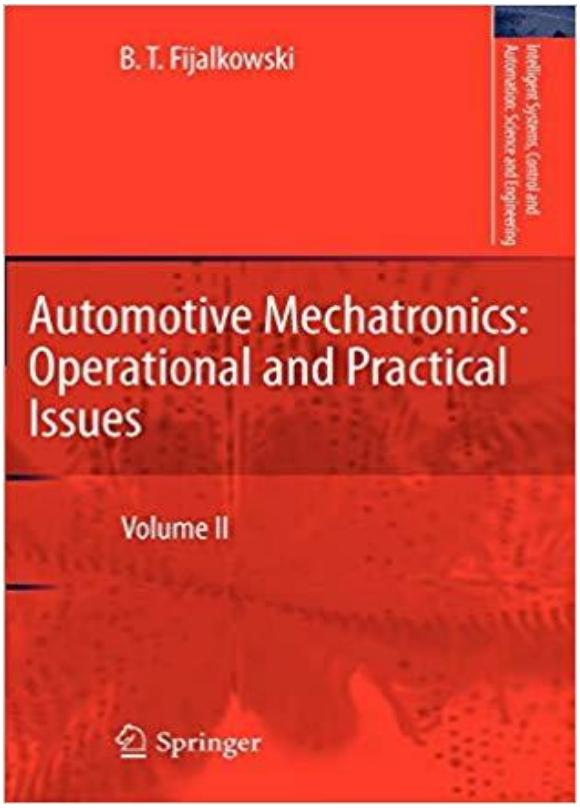
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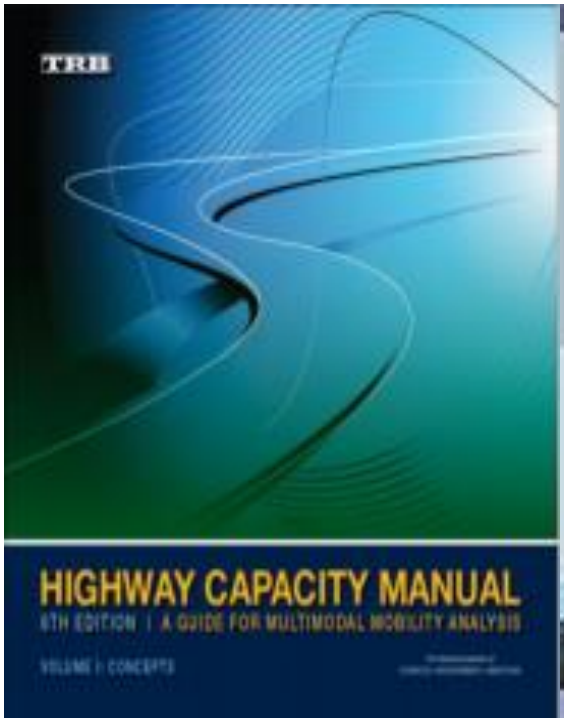
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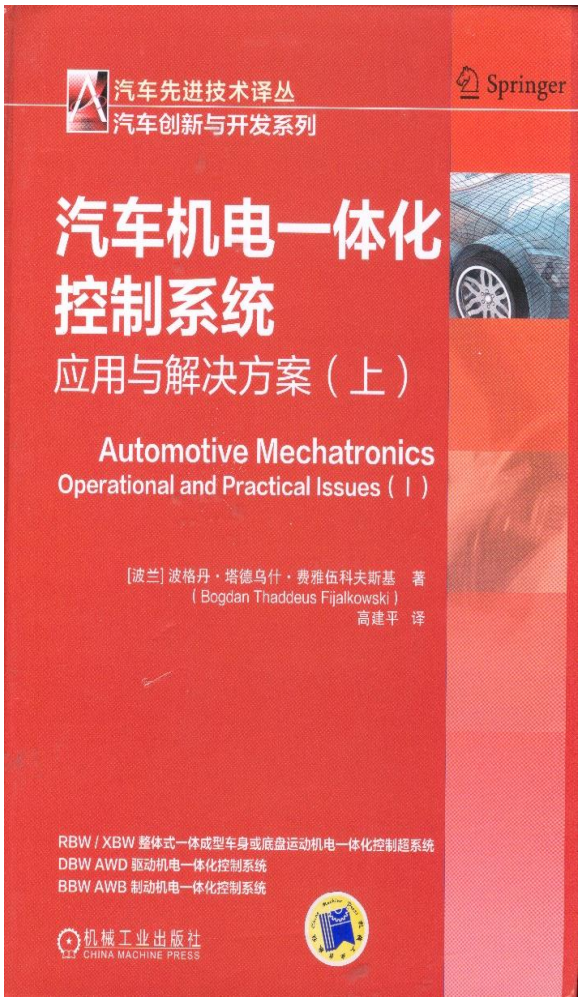
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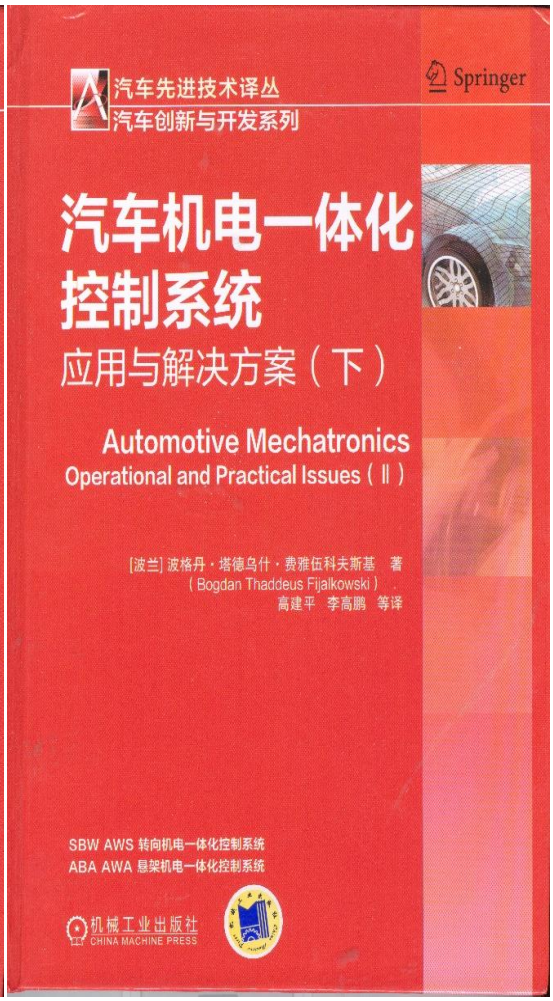
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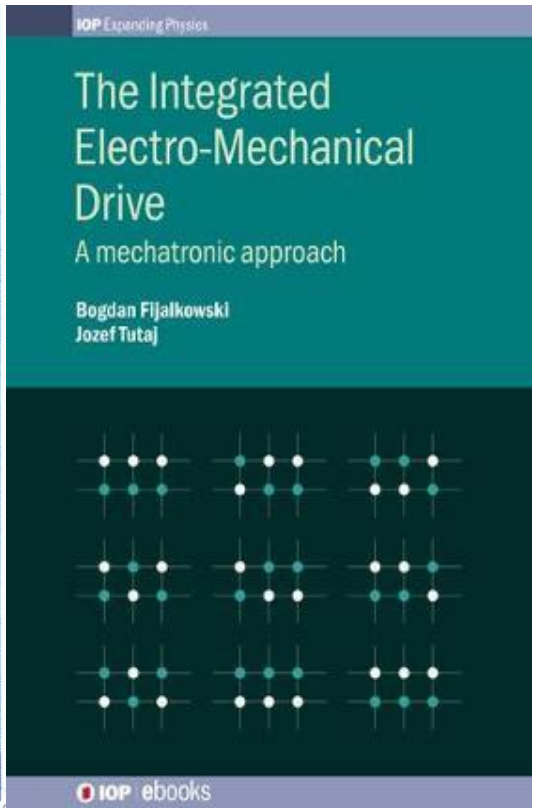
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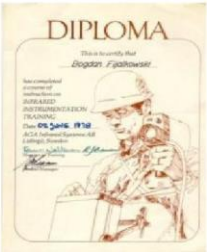
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