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Nota di contenuto	The Calculus of the Pressures in the Characteristic Points of the Engine's Cycle for a GDI Engine -- An Engine Mechanism Dynamic Analysis by Considering the Kinematic Elements as Deformable Ones -- Experimental Stand to Evaluate Engine Mass Air Flow (MAF) Sensor -- Theoretical and Experimental Research on the Polluting Emissions for an Middle Class Vehicle Equipped with Engine that Uses the Double Energy Source,Gasoline and LPG -- Analysis of the Injector for Common Rail System, Including of the Electrical Command Signal -- Influence of Tires Parameters on the Braking Process in Automobiles -- Mathematical Model for Stability Analysis of Vehicle-Driver System -- A Study on the Influence of the Miller Cycle upon the Engine's Internal Aerodynamics -- 3D Aerodynamic Simulation of the Heavy Duty Commercial Vehicle -- Research of Intelligent Control of Injection Systems for Subaru Competition Car -- Some Considerations on Optimal Placement of the Arm Hydraulic Cylinder to an Excavator -- Aspects Regarding Fuel Consumption ad the Pollutant Products of Internal Combustion Engines for Commercial Vehicles -- The Influence of the Hybridization Factor on the Energetic Performance in Test Cycles.

This proceedings book includes papers that cover the latest developments in automotive vehicles and environment, advanced transport systems and road traffic, heavy and special vehicles, new materials, manufacturing technologies and logistics and advanced engineering methods. Authors of the papers selected for this book are experts from research, industry and universities, coming from different countries. The overall objectives of the presentations are to respond to the major challenges faced by the automotive industry, and to propose potential solutions to problems related to automotive technology, transportation and environment, and road safety. The congress is organized by SIAR (Society of Automotive Engineers from Romania) in cooperation with SAE International. The purpose is to gather members from academia, industry and government and present their possibilities for investigations and research, in order to establish new future collaborations in the automotive engineering and transport domain. This proceedings book is just a part of the outcomes of the congress. The results presented in this proceedings book benefit researchers from academia and research institutes, industry specialists, Ph.D. students and students in Automotive and Transport Engineering programs. .

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