

rCube2: List of publications



- B. Hnilicka, A. Kouba, M. Vinklar, J. Navratil and M. Horacek: Application of WAVE-RT on rapid prototyping ECU on running engine to reduce emissions and eliminate physical sensors, 34th International CAE conference, Vincenza/Italy, October 2018.
- A. Wearing, O. Taskin, J. Haybittle, R. Bao, J. Baxter and C. Rouaud: Development of high power 48 V powertrain components for mild hybrid light duty vehicle applications, ECCE 2018: IEEE Energy Conversion Congress & Exposition, #19007, Portland/US, September 2018.
- A. Kouba, B. Hnilicka and J. Navratil: Downsized Gasoline Engine Cylinder Deactivation MiL Development and Validation using Real-Time 1-D Gas Code, SAE 2018 WCX World Congress Experience, April 2018. ([link](#))
- J. Vavra, I. Bortel, M. Takats and M. Divis: Emissions and performance of diesel–natural gas dual-fuel engine operated with stoichiometric mixture, In Elsevier Fuel, Vol. 208, p. 722-733, November 2017. ([link](#))
- P. Katranitsas, A. Auld, A. Gurr and A. Truscott: Lean-burn direct injection natural gas engine control for transient applications, In Heavy-Duty- On-und Off-Highway-Motoren 2016, Springer Vieweg, Wiesbaden, p. 37-57, September 2017. ([link](#))
- R. Osborne, T. Downes, S. O'Brien, K. Pendlebury and M. Christie: A Miller cycle engine without compromise - The Magma concept, SAE Int. J. Engines 10(3):846-857, 2017, March 2017. ([link](#))
- B. Hnilicka, F. Bradac, A. Kouba, J. Jenc, V. Myslivec and J. Navratil: Realistic real-time engine sound generation using WAVE-RT on ARM platform, Ricardo Software UserCon Europe, March 2017. ([link](#))
- B. Hnilicka, A. Kouba, M. Horacek, M. Dulaj, M. Vinklar and J. Navratil: Gasoline engine control using real time 1-D model running in rapid prototyping ECU, Controls, Measurement & Calibration Congress, Pune/India, May 2016. ([link](#))
- J. Jenc, V. Myslivec, V. Ondrak and B. Hnilicka: Advanced complete vehicle simulation toolchain based on co-simulation of IGNITE, WAVE/WAVE-RT and MATLAB/Simulink, Ricardo Software UserCon Europe, April 2016. ([link](#))
- B. Hnilicka, F. Bradac, M. Vinklar, A. Kouba and J. Navratil: Gasoline engine control using WAVE-RT model running in rapid prototyping ECU: rCube2, Ricardo Software UserCon Europe, April 2016. ([link](#))
- A. Kouba, J. Navratil, B. Hnilicka and P.C. Niven: Sensorless control strategy enabled by a sophisticated tool chain, SAE 2015 Commercial Vehicle Engineering Congress, Rosemont/US, October 2015. ([link](#))
- A. Kouba, T. Fickenscher, J. Navratil and B. Hnilicka: Engine control using real-time 1-D engine model, 17th MTZ conference Virtual Powertrain Creation, Hanau/Germany, September 2015. ([link](#))
- B. Hnilicka, A. Kouba, M. Horacek, M. Vinklar and J. Navratil: Sensor-less engine control using WAVE-RT model running in rCube2 ECU, Ricardo Software User Conferences in Europe, US, Japan, China, 2015. ([link](#))
- B. Hnilicka, M. Horacek, A. Kouba and M. Vinklar: Testbed application of diesel engine controlled by rCube2 ECU with WAVE-RT module, Ricardo Software User Conferences in Europe, US, Japan, China, 2014. ([link](#))
- B. Hnilicka, M. Dulaj, A.J. Beaumont and M. Dusterhoft: AUTOSAR based rapid prototyping control system, ATZextra worldwide: 10 Years AUTOSAR – The Worldwide Automotive Standard for E/E Systems, Springer-Verlag, October 2013. ([link](#))
- T. Fickenscher, B. Hnilicka and J. Navratil: Advanced rapid prototyping control electronic control unit with real-time 1-D gas dynamics model, 15th MTZ conference Virtual Powertrain Creation, Mainz/Germany, September 2013. ([link](#))
- J. Navratil and B. Hnilicka: WAVE-RT real time 1-D model running on engine controller, Ricardo Software User Conferences in Europe, US, Japan, China, 2013. ([link](#))