

Best Paper Award

Chairman:

Tomoo Shiozaki, Honda R&D Co., Ltd.

Leonid Tartakovsky, Technion - Israel Institute of Technology



20159767

Analysis of Mixture Formation Process in a PFI Motorcycle Engine

Yasuo Moriyoshi, Tatsuya Kuboyama (Chiba University)

Hisashi Goto, Minoru Iida (Yamaha Motor Co., Ltd.)

High Quality Paper Awards (9 Papers)-1/2



Chairman:

Tomoo Shiozaki, Honda R&D Co., Ltd.

Leonid Tartakovsky, Technion - Israel Institute of Technology

20159706

Experimental Investigation and Analysis of Homogeneous Charge Compression Ignition in a Two-Stroke Free-Piston Engine

Stephan Schneider, Horst E. Friedrich (German Aerospace Center)

20159714

Research on Method for Classifying Injury Severity Using Motorcycle Accident Data for ISO 26262

Yuji Arai, Makoto Hasegawa, Takeshi Harigae (Japan Automobile Research Institute)

20159715

Detailed Diesel Combustion and Soot Formation Analysis with Improved Wall Model Using Large Eddy Simulation

Beini Zhou, Masahiro Horikoshi, Akira Kikusato, Jin Kusaka, Yasuhiro Daisho (Waseda University)

Kiyotaka Sato, Hidefumi Fujimoto (Mazda Motor Corporation)

20159739

Prediction of fatigue strength of motorcycle exhaust system considering vibrating and thermal stresses

Hiroshi Kuribara, Hiroshi Horikawa, Takashi Teraguchi, Takanori Nagata, Daisuke Kitamura (Honda R&D Co., Ltd.)

High Quality Paper Awards (9 Papers)-2/2



20159749

Online Engine Speed Based Adaptation of Combustion Phasing and Air-Fuel Ratio: Evaluation of Feature Quality

Henning Heikes, Geetesh Gadkari, Christian Steinbrecher, Christian Linder, Martin Loehning, Wolfgang Fischer (Robert Bosch GmbH)

20159771

Influence of Ca-, Mg-and Na-based Engine Oil Additives on Abnormal Combustion in a Spark-ignition Engine

Kenta Miura, Kento Shimizu, Norikuni Hayakawa, Tomomi Miyasaka, Akira Iijima, Hideo Shoji (Nihon University) Toshimasa Utaka, Kazushi Tamura, Hideki Kamano (Idemitsu Kosan Co., Ltd.)

20159813

Study on Airbag Concept for Motorcycles Using Opposing Vehicle as Reaction Structure

Yutaka Aikyo, Yuki Kobayashi, Takashi Sato, Tomohiko Akashi and Makoto Ishiwatari (Honda R&D Co., Ltd.)

20159830

Development of Fracture-split Connecting Rods made of Titanium Alloy for Use on Supersport Motorcycles

Tsuyoshi Kubota, Kosuke Doi, Takeshi Murakami, Yuuki Kojima, Tetsu Miura (Yamaha Motor Co., Ltd.)

20159834

Motorcycle Stability Control – The next generation of motorcycle safety and riding dynamics

Thomas Lich (Robert Bosch GmbH), Wilko Gordon Block, Prashanth S N (Robert Bosch Corporation Japan), Brad Heiler (Robert Bosch LLC)

High Quality Presentation Awards (5 Presentations)



Chairman:

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Leonid Tartakovsky, Technion - Israel Institute of Technology

20159739

Prediction of fatigue strength of motorcycle exhaust system considering vibrating and thermal stresses

Hiroshi Kuribara (Honda R&D Co., Ltd.)

20159740

Single Cylinder 25 kW Range Extender: Development for Lowest Vibrations and Compact Design Based on Existing Production Parts

Christian Hubmann (AVL List-GmbH)

20159749

Online Engine Speed Based Adaptation of Combustion Phasing and Air-Fuel Ratio: Evaluation of Feature Quality

Henning Heikes (Robert Bosch GmbH)

20159764

Additive Technology for Superior and Unique Motorcycle Oil (SUMO)

Pei Yi Lim (Infineum Singapore Pte Ltd.)

20159809

Expansion to Higher Efficiency – Experimental Investigations of the Atkinson Cycle in Small Combustion Engines

Patrick Pertl (Graz University of Technology)



Best Collegiate Event Award

Chairman: Koji Yoshida (Nihon University)

20159742

Optimizing the Opening Period and the Timing of Intake and Exhaust Valves to Improve Engine Performance in a Supermilage Vehicle

Kenta Goto, Shinji Noda, Kohei Nakashima, Yoshio Murakami (Meijo University)

Best Poster Award

Chairman: Yuh-Yih Wu (National Taipei University of Technology)

Entry No. 8

Mr. Shota Hashimoto (Okayama University)

Combustion Diagnostics Using Time-Series Analysis of Radical Emissions in a Practical Engine