
Guest editorial

Special issue on automotive tribology

The motor car is one of the most common machines in use today, and it is no exaggeration to state that it is crucial to the economic success of all the developing and developed nations of the world and the quality of life of their citizens. The motor car itself consists of thousands of parts, many of which rely on the interaction of their surfaces to function. There are many hundreds of tribological components, from bearings, pistons, transmissions, clutches, gears, to wiper blades, tires and electrical contacts. The application of tribological principles is essential for the reliability of the motor vehicle, and the mass production of the motor car has led to enormous advances in the field of tribology. The papers included here will discuss methods, analysis, design advances and new materials concerning all kinds of automotive development with improved tribological properties from fundamental research to applied uses, with the resulting benefits of longer product/component life, less energy consumption and reduction in product development time and cost.

Renowned authors in the area of tribology, including excellent works presented at the Malaysia-Singapore Research Symposium 2019 (MS-2019) to submit their contributions to this special issue.

As a guest editor, I hope that the papers in this special issue will serve as a valuable reference for researchers and tribologists around the globe. I am also grateful to the

Chief Editor of Industrial Lubrication and Tribology and reviewers who worked very hard in reviewing papers and providing feedback for authors.

About the guest editor



Mohd Fadzli Bin Abdollah is an Associate Professor in the Faculty of Mechanical Engineering at Universiti Teknikal Malaysia Melaka (UTeM). He received his BEng (Hons.) and MEng in Mechanical Engineering from Universiti Kebangsaan Malaysia in 2004 and 2005, respectively. Later in 2011, he completed his DrEng in Mechanical Science and Engineering from Nagoya University, Japan. He has authored or co-authored more than 100 journal and conference papers and obtained three intellectual properties. His current interests involve tribology of eco-materials and surface engineering. Fadzli has served the tribology community in various capacities, including Editor-in-Chief for *Jurnal Tribologi*, and was appointed as a Guest Editor for several journals, including *Industrial Lubrication and Tribology*, *Journal of Materials Research*, *Transactions of the IMF*, *Tribology – Materials, Surfaces & Interfaces*, *Composite Interfaces*, *International Journal of Materials and Product Technology*, and *Progress in Industrial Ecology*.

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