

Sessões Técnicas

02 e 03 de dezembro de 2021



WEB FÓRUM
SAE BRASIL

02 DE DEZEMBRO | QUINTA-FEIRA

HORA	CATEGORIA	APRESENTAÇÃO
8h30	INICIO DA TRANSMISSÃO	
8h50	QUALIDADE E PRODUTIVIDADE	Sparking level evaluation in DC electric fuel pump motor for Brazilian flex fuel vehicle application Autor: Lazaro Benedito de Oliveira Melo
9h10	QUALIDADE E PRODUTIVIDADE	Use of the PDCA cycle for torque failure analysis in a productive process in the automotive industry. Autor: Lucas de Césares Oliveira Martins
9h30	METODOLOGIA DE PROJETO E DESIGN	DFMA's practical contributions to the civil vehicle armoring process: a systematic literature review Autor: Mateus Alves Medeiros
9h50	METODOLOGIA DE PROJETO E DESIGN	Reliability demonstration of automotive electronic component for fuel heating with extended mission profile Autor: André Morais
10h10	GESTÃO E DESENVOLVIMENTO	Implementation of a technique for measuring the level of damage to vehicles through digitization, applicable to vehicle insurance companies. Autor: Pedro Stano
10h30	PEÇAS E COMPONENTES	Brake rotor vanes optimization study Autor: Filipe Fabian Buscariolo
11h	MOTORES E TRANSMISSÕES	Exergy analysis of a water cooled single cylinder dual fuel engine fueled with diesel-ethanol under different ethanol energy ratio Autor: Josimar Souza Rosa
11h20	MOTORES E TRANSMISSÕES	Water injection enabling high efficiency flex fuel engines development Autor: Gustavo Santos Lopes
11h40	COMBUSTÍVEIS E RECURSOS ENERGÉTICOS	Investigation of ignition delay times for ethanol and the Brazilian gasoline Autor: João Lucas Zaions
12h	COMBUSTÍVEIS E RECURSOS ENERGÉTICOS	e-Hydrogen: the clean energy of the Fuel Cell applied to Electromobility Autor: Amaro De Paula Diehl Krob
12h20	TESTES E SIMULAÇÕES	Evaluation of the use of hydrated ethanol in different concentrations in reformers coupled with internal combustion engines Autor: Bernardo De Oliveira Vecchio
12h40	TESTES E SIMULAÇÕES	Reduction of chemical kinetics mechanisms: a review of methods and applications in the development of new fuels Autor: Alvaro Cesar Garcia

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03 DE DEZEMBRO | SEXTA-FEIRA

HORA	CATEGORIA	APRESENTAÇÃO
8h30	INICIO DA TRANSMISSÃO	
8h50	MATERIAIS	Titanium Alloys Production by Powder Metallurgy for Automotive Applications Autor: Vinicius Rodrigues Henriques
9h10	MATERIAIS	Effect of Austenitization Time on Al-Si Coating of 22MnB5 Steel: Influence on Projection Welding Autora: Jéssica Cristina Costa de Castro Santana
9h30	TESTES E SIMULAÇÕES	Multiplex validation: An Automated HIL Approach Autor: Vitor Passos Silva
9h50	VEÍCULOS	Cruise Control (CC) and Adaptative Cruise Control (ACC) systems: a review Autor: Flávio José Bento Batista
10h10	SEGURANÇA E ERGONOMIA	The Impact of the Application of Standardized Work Processes in Synergy with Safety and Ergonomics in a Modular Consortium Company Autor: Sergio Bruno Provazi Maia
10h30	MANUFATURA	A review of the study on the causes of Recall in automotive vehicles marketed in Brazil Autor: Emilio Carlos Baraldi
11h	RUÍDOS E VIBRAÇÕES (NVH)	Comparative analysis of the internal combustion engine block vibration with gasoline and ethanol fuel Autor: Claudio Marcio Santana
11h40	SUSPENSÃO	Review of the dual-axis steering system used by Mercedes-AMG in Formula One Autor: Cádmo Augusto Rodrigues Dias
12h	SUSPENSÃO	Tracked vehicle performance on irregular ground with pneumatic suspensions Autor: Matheus de Miranda
12h20	TESTES E SIMULAÇÕES	Digital Twin and simulation to reduce costs in Fuel Heating System development. Autor: Alex Restani Siegle
12h40	TESTES E SIMULAÇÕES	Single-Cell Battery Pack Dimensioning Optimization Method for Plug-in Hybrid Electric Vehicles on ABNT Driving Cycle Autor: Murilo Fregonesi Falleiros e Gustavo Gioria