



Fabrizio Ligi
Chief Executive Director
SAE Italy Deanet srl
fabrizio.ligi@deanet.com

SAE Mobilus 4.0: la piattaforma numero uno al mondo nell'Automotive

SAE Mobilus

Soluzioni SAE per la Mobilità Sostenibile

Un'unica piattaforma per accedere a tutti gli Standards, Technical Papers, Journals di SAE Society Automotive Engineering

SAE INTERNATIONAL PORTFOLIO

SAE Obiettivo

SAE International è un organismo globale di scienziati, ingegneri e professionisti che promuove la conoscenza dei veicoli e dei sistemi semoventi in un forum neutrale a beneficio della società.



MEMBRI

Più di 128,000 membri in tutto il mondo



SVILUPPO PROFESSIONALE
Portfolio con oltre 400 corsi.



MEDIA



EVENTI
Più di 30 eventi tecnici globali.

FONDAZIONE

Finanziamento del programma
Pre-Professional & Collegiate



Mobilus
200,000+ collezione



SVILUPPO PRE-PROFESSIONALE
Pre-K-16 STEM & Collegiate



TECHNICAL STANDARDS
43,000+



SAE Prospettiva

SAE International è leader nel collegare e formare gli ingegneri, promuovendo, sviluppando e facendo progredire l'ingegneria aerospaziale dei veicoli commerciali e automobilistica.

Biblioteca Accademica SAE Mobilus - Contenuti

- Oltre 42.000 norme SAE riconosciute a livello internazionale (AMS, AS, GV/J) per i settori aerospaziale, automobilistico e dei veicoli commerciali in full-text con riformulazioni e annotazioni - attuali e storiche.
<https://www.saemobilus.org/what-we-offer/engineering-standards>
- Oltre 8.800 articoli, 15 riviste con revisione paritaria
<https://www.saemobilus.org/what-we-offer/scholarly-journals>
- Oltre 143.000 documenti tecnici scritti da esperti dal 1906 ad oggi
<https://www.saemobilus.org/what-we-offer/technical-papers>
- I rapporti di ricerca SAE EDGE esaminano gli argomenti più significativi che l'industria della mobilità si trova ad affrontare oggi, con un'attenzione particolare alle tecnologie in fase di pre-consenso o non ancora definite.
<https://saemobilus.sae.org/browse/edgereports>
- 20.000+ articoli/2.000+ numeri di riviste (attuali e arretrati)
<https://www.saemobilus.org/what-we-offer/scholarly-journals>

VALORE DEGLI STANDARD SAE

COMPATIBILITÀ & INTEROPERABILITÀ

COERENZA

CONFORMITÀ

EFFICIENZA



COMITATI SAE per le Norme

700 comitati | 8,800 membri

2,900 aziende | 1,500 meetings/anno.



Ctrl + Click per esplorare le norme

Perchè seguire WIPs?

Rimanete informati sugli Standard futuri.
Appicateli ai progetti futuri.

| Aerospace Materials Systems Group | | | |
|-----------------------------------|------------------------------------|-------------------|--------------|
| Committee | | | |
| Main | | | |
| WIP | | | |
| Documents | | | |
| SAE Members Only | | | |
| Works in Progress | | | |
| Project | Title | Sponsor | Date |
| AIR4779D | User's Guide to AMS Specifications | Robert M. Steffen | Sep 17, 2019 |

Perchè partecipare?

Entrare a far parte di un comitato come esperto tecnico e contribuire all'avanzamento dei futuri standard.

Welcome to the SAE MOBILUS Standards Committees Page

Standards Development

Standards from SAE International are used to advance mobility engineering throughout the world. The SAE Technical Standards Development Program is now-and has been for nearly a century-among the organization's primary provisions to those mobility industries it serves: aerospace, automotive, and commercial vehicle. Today's SAE standards product line includes almost 10,000 documents created through consensus standards development by more than 240 SAE Technical Committees with 450+ subcommittees and task groups. These works are authorized, revised, and maintained by the volunteer efforts of more than 9,000 engineers, and other qualified professionals from around the world. Additionally, SAE has 60 US Technical Advisory Group (USTAG's) to ISO Committees.

SAE MOBILUS Standards by Committees

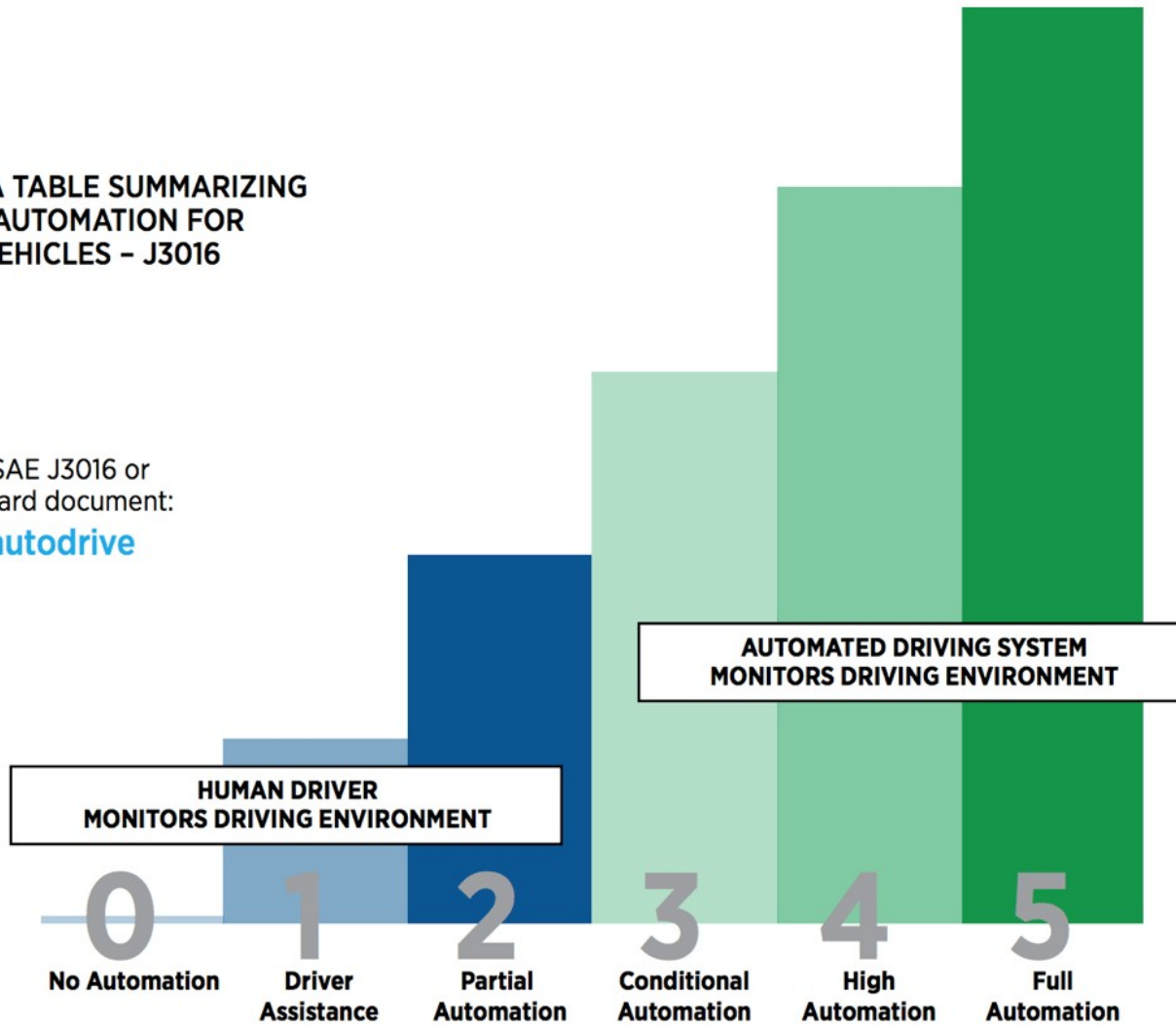
Select a committee below to view standards published by that committee and available within SAE MOBILUS.

Aerospace Council (32)

- ▶ Aerospace Avionic Systems Group
- ▶ Aerospace Electronics and Electrical Systems Group
- ▶ Aerospace General Projects Systems Group
- ▶ Aerospace Materials Systems Group (3)
- ▶ Aerospace Mechanical and Fluid Systems Group
- ▶ Aerospace Propulsion Systems Group
- ▶ Aircraft Systems Group
- ▶ Airport and Ground Operations and Equipment Systems Group
- ▶ Reliability, Maintainability, and Health Mgmt Systems Group
- ▶ Systems Development, Safety, Component Process, Mgmt Systems

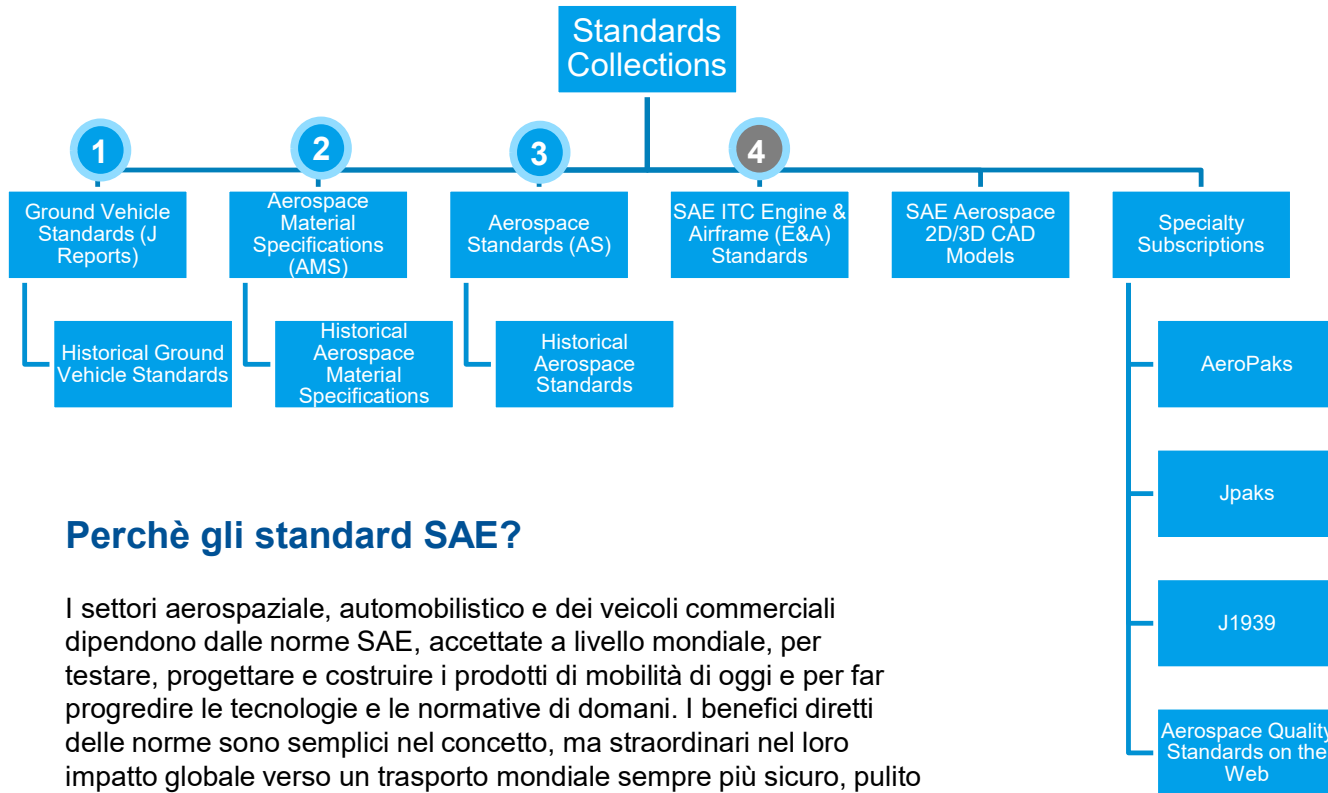
▶ OVER FOR A TABLE SUMMARIZING LEVELS OF AUTOMATION FOR ON-ROAD VEHICLES - J3016

Learn more about SAE J3016 or purchase the standard document:
www.sae.org/autodrive



COLLEZIONI SAE

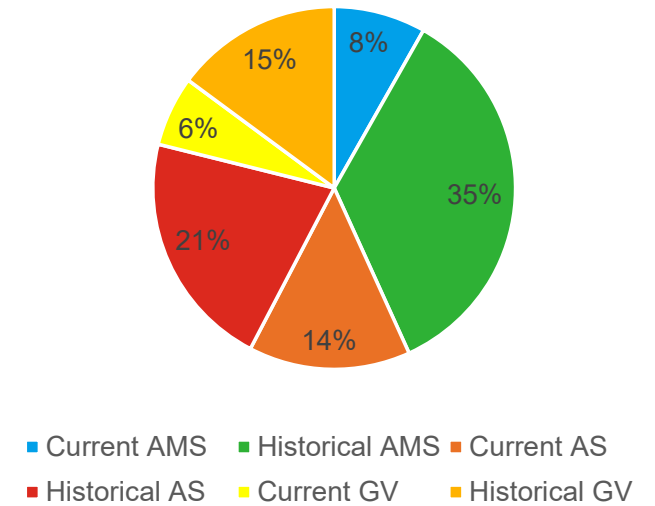
COMPRENDERE I RAMI DELLE NORME



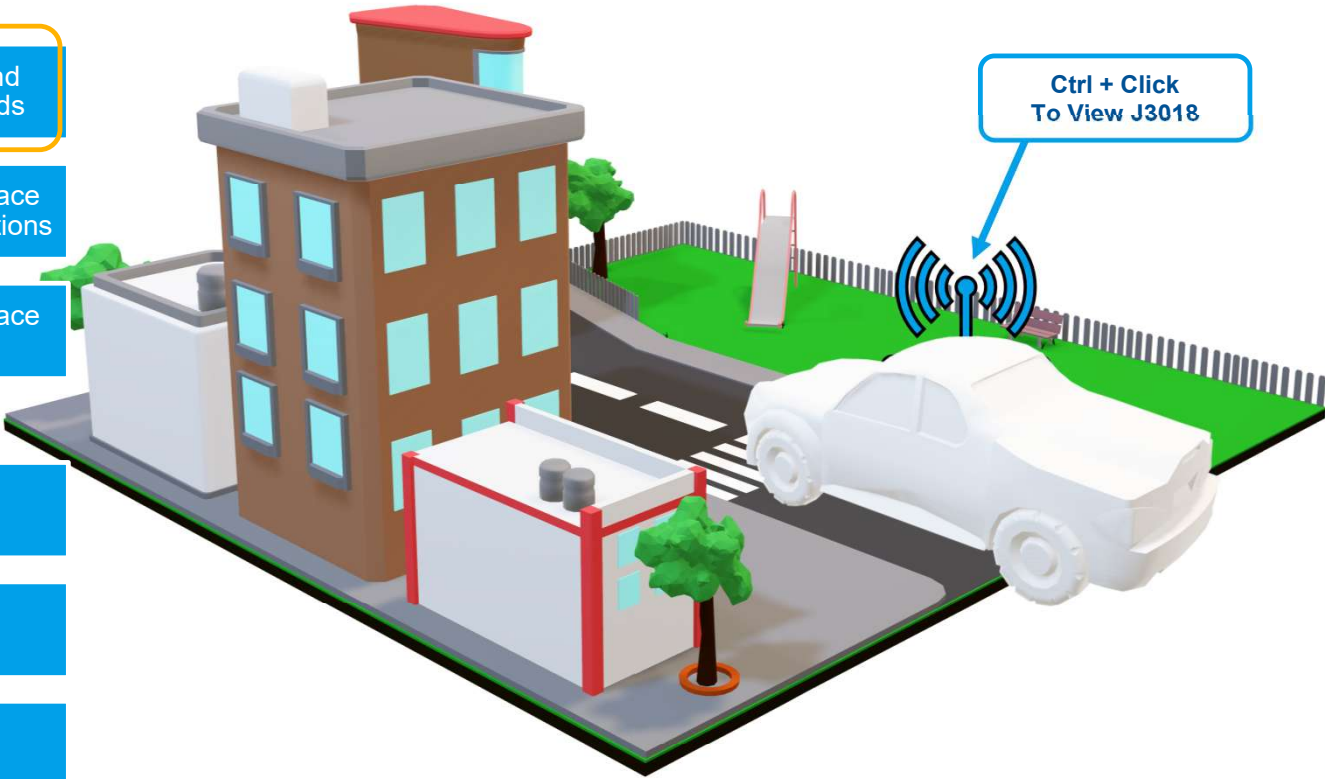
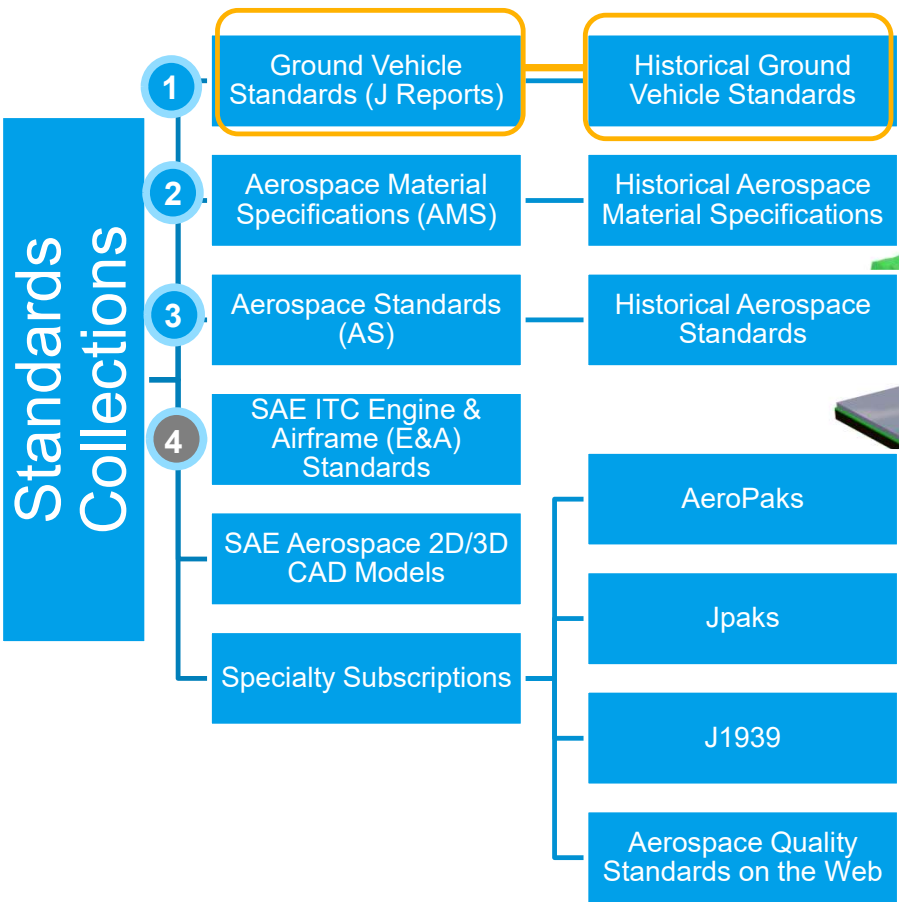
Perchè gli standard SAE?

I settori aerospaziale, automobilistico e dei veicoli commerciali dipendono dalle norme SAE, accettate a livello mondiale, per testare, progettare e costruire i prodotti di mobilità di oggi e per far progredire le tecnologie e le normative di domani. I benefici diretti delle norme sono semplici nel concetto, ma straordinari nel loro impatto globale verso un trasporto mondiale sempre più sicuro, pulito ed efficiente.

SAE Standards



COLLEZIONI SAE COMPRENDERE I RAMI DELLE NORME



J3018: Guida alla sicurezza per le prove su strada dei prototipi di veicoli a guida automatica (ADS) di livello 3, 4 e 5

COLLEZIONI SAE COMPRENDERE I RAMI DELLE NORME

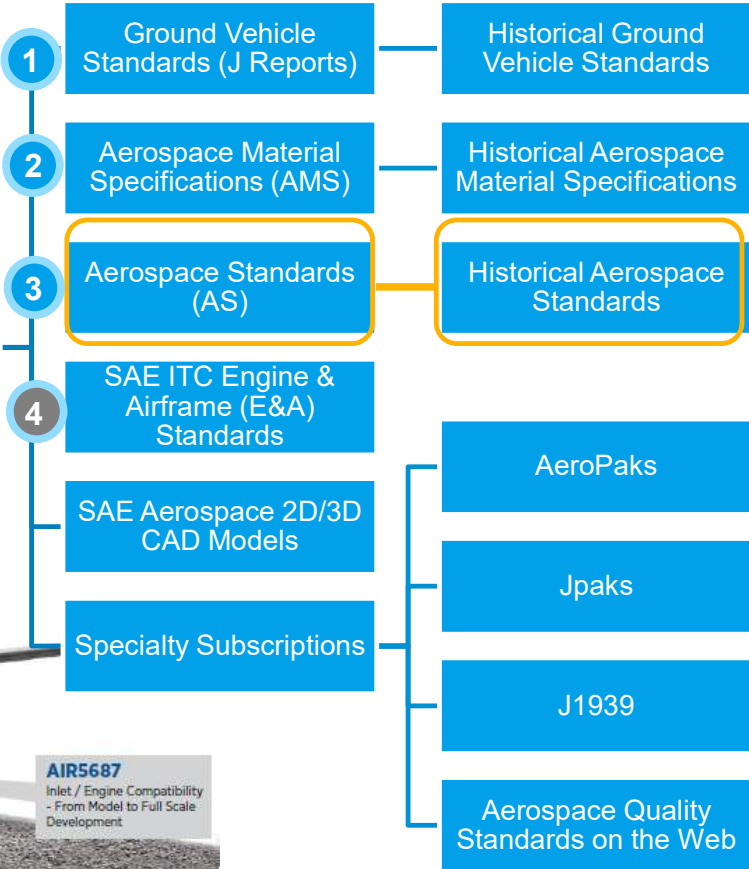
SAE in the Aerospace Industry

Among its most important and well-recognized aerospace consensus works are SAE's internationally adopted AS (Aerospace Standards), AMS® (Aerospace Material Specifications), ARP (Aerospace Recommended Practices), and AIR (Aerospace Information Reports) documents.

A small sampling of SAE International's standards that can be found on today's typical aircraft.

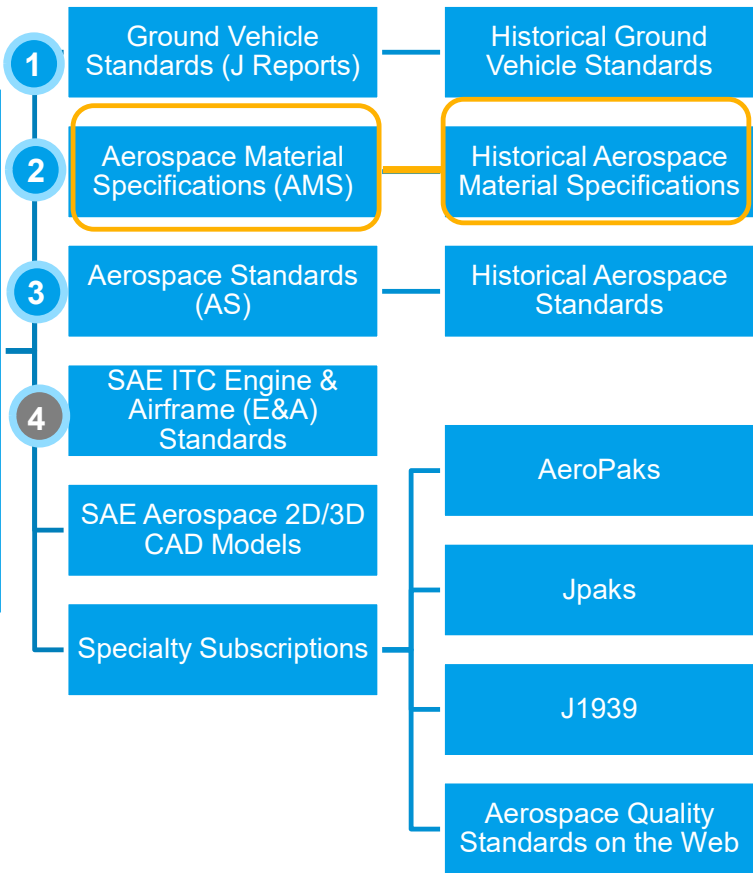


Standards Collections



COLLEZIONI SAE COMPRENDERE I RAMI DELLE NORME

Standards Collections



Le AMS sono citate negli appalti pubblici e industriali di tutto il mondo. I produttori che utilizzano specifiche di approvvigionamento standardizzate per il settore beneficiano di una riduzione dei costi di approvvigionamento e della possibilità di ottenere più rapidamente prodotti e componenti dai fornitori.



COLLEZIONI SAE COMPRENDERE I RAMI DELLE NORME

Stabilized
Published July 11, 2015 by SAE International in United States

Aerospace Standard
AS3261B

Sector: Aerospace
Issuing Committee: E-25 General Standards for Aerospace and Propulsion Systems
Language: English



2D/3D Drawings

Some older browsers could require a plugin install for 3D and or 2D previewer.

Part Number: AS3261-01B

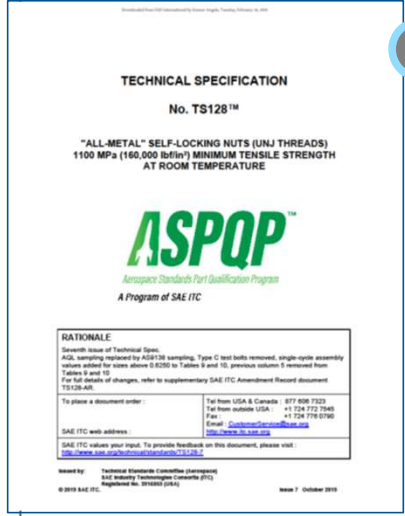
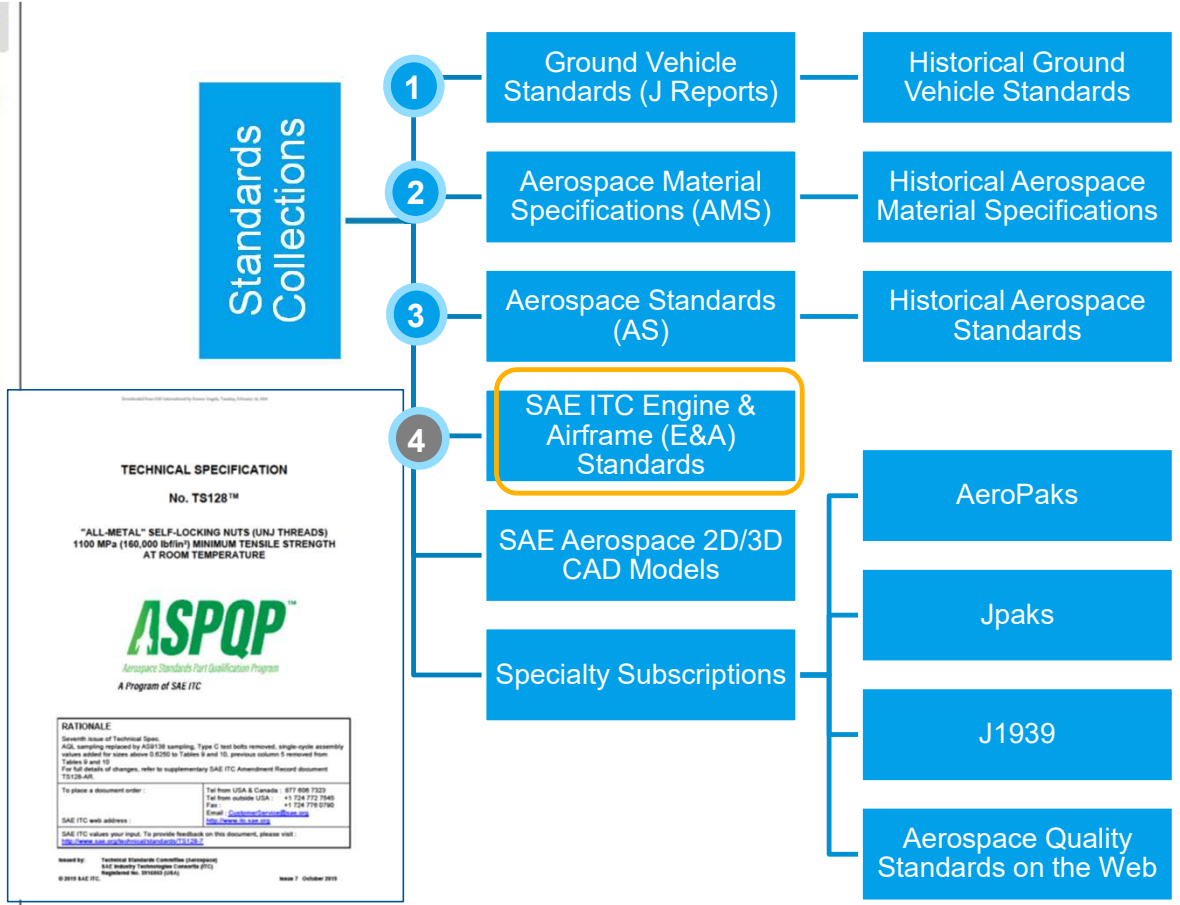
Thread: .1900-32 UNJF-3B

3D Preview | 2D View | Download | Help

Generate

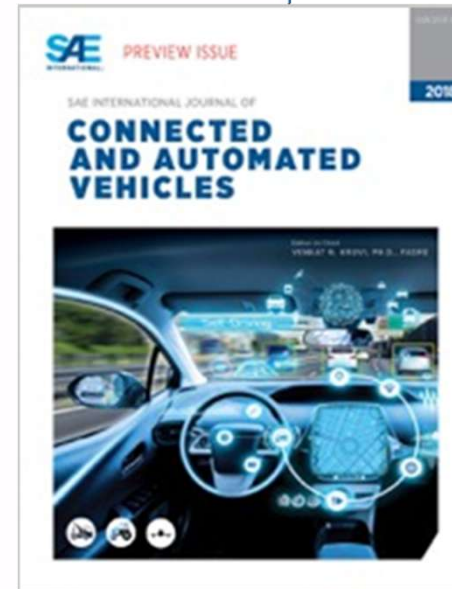
powered by PARTSolutions®

| Part Number | Material | Finish | Hardness | Procurement Specification | A Diameter Max. | B |
|-------------|------------------------------------|---------------|-----------|---------------------------|-----------------|-----------|
| | | | | | INCH | INCH |
| AS3261-01 | Corrosion and Heat Resistant Steel | Silver Plated | 32-48 HRC | AS7251 | .218 | .169-.184 |



RIVISTE

- Aerospazio
- Motori Alternativi
- Veicoli Commerciali
- Motori
- Carburanti e Lubrificanti
- Materiali e Produzioni
- Autovetture
- Sicurezza dei Trasporti
- Dinamica del veicolo, stabilità e NVH
- Cybersicurezza e privacy nei trasporti
- Veicoli connessi e automatizzati
- Progressi e pratiche attuali nella mobilità
- Trasporti, energia, ambiente e policy



Ctrl + Click
Per vedere questa rivista

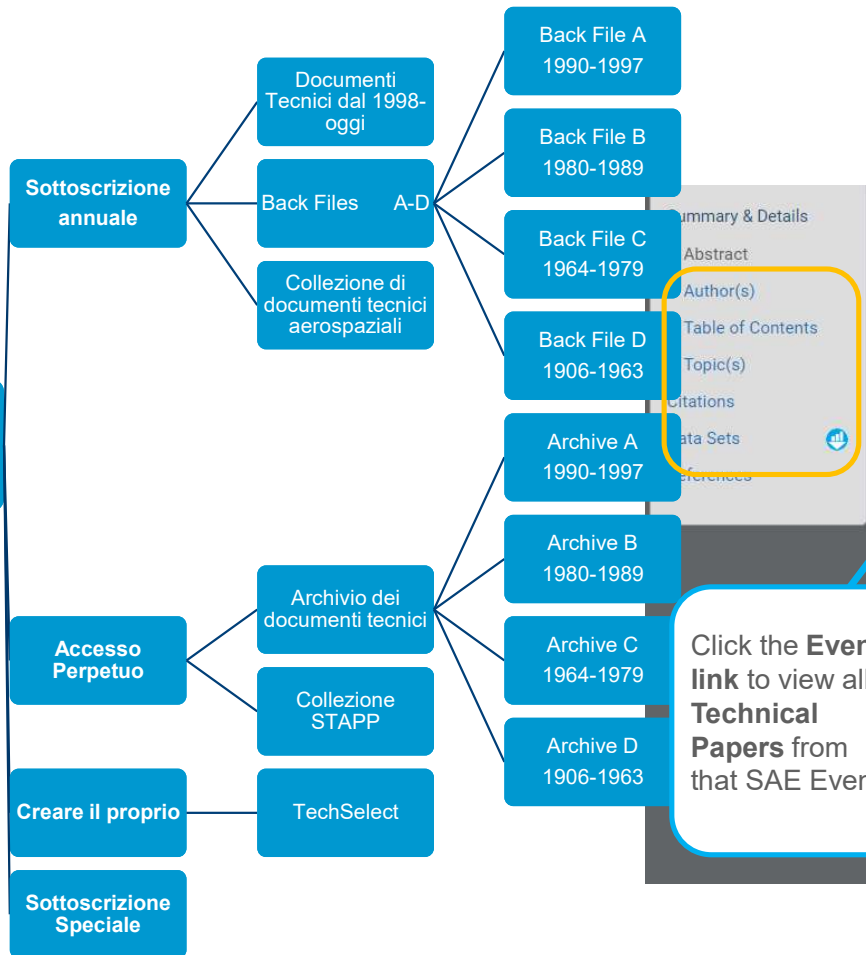
SAE Riviste:

- Coprono argomenti specifici e correlati
- Sottoporsi ad una revisione paritaria in doppio cieco
- Soddisfare i rigorosi criteri delle riviste scientifiche

CONTENUTI SAE

DOCUMENTI TECNICI

Documenti
Tecnici



Annotare – Esportare Dati – Salvare - Condividere

Export Print Share Add To View/Annotate Download

Electrification System Modeling with Machine/Deep Learning for Virtual Drive Quality Prediction

ISSN: 0148-7191, e-ISSN: 2688-3627
Published November 21, 2019 by SAE International in United States

Sector: Automotive
Event: NuGen Summit
Language: English

Highlight Keywords
Technical Paper
2019-28-2418

Click the Event link to view all Technical Papers from that SAE Event.

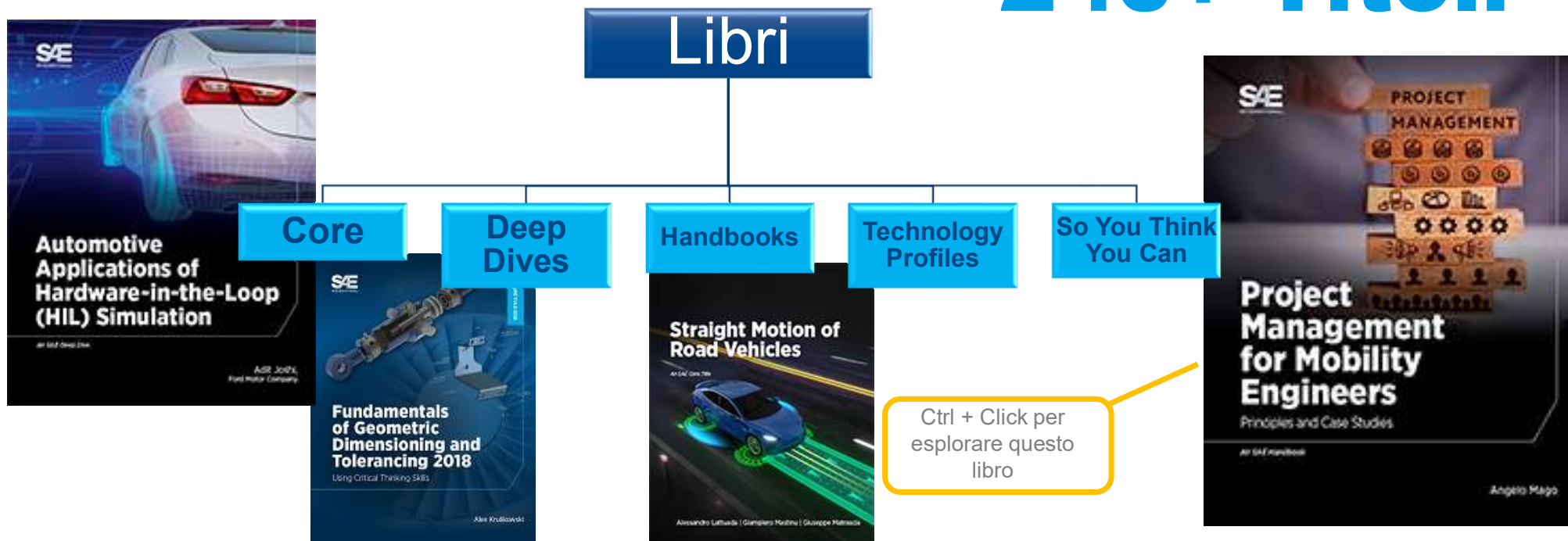
Abstract

A virtual 'model' is generally a mathematical surrogate of a physical system and when well correlated, serves as a basis for understanding the physical system in part or in entirety. Drive Quality (DQ) defines a driver's 'experience' of a blend of controlled responses to an applied input. The 'experience' encompasses physical, biological and bio-chemical perception of vehicular motion by the human body. In the automotive domain, many physical modeling tools are used to model the sub-components and its integration at the system level. Physical Modeling requires high domain expertise and is not only time consuming but is also very 'compute-resource' intensive. In the path to achieving 'VDQP (Virtual Drive Quality Prediction)' goal, one of the requirements is to establish 'well-correlated' virtual environments of high fidelity with respect to standard test maneuvers. This helps in advancing many developmental activities from a Analysis, Controls and Calibration standpoint. Recently, machine/deep learning have proven to be very effective in pattern recognition, classification tasks and human-level control to model highly nonlinear real world systems. This paper investigates the effectiveness of machine/deep learning with various algorithms for the modeling of an electric vehicle system, integration with virtual embedded controllers, drive quality analysis and correlation to vehicle data, thereby enabling scope for 'front-loading' iterative activity in the developmental cycle and enable laptop-based fine tuning of software

LIBRI SAE

- Molteplici **libri con contenuti tecnici** dai fondamentali alle prospettive storiche e agli argomenti emergenti del settore.
- Ricerche autorevoli, sottoposte a revisione paritaria da parte dei **leader del mondo accademico e industriale**.

240+ Titoli



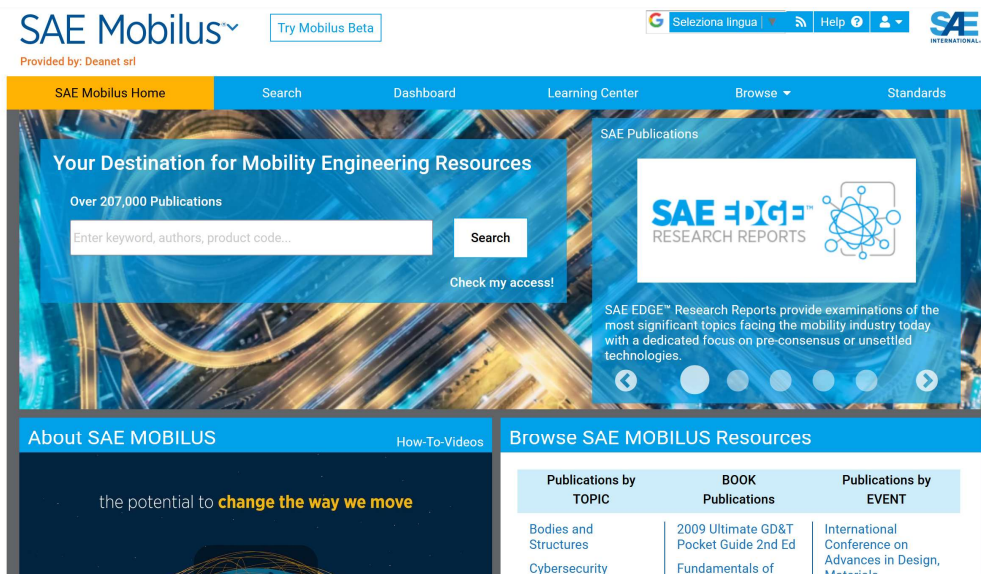
SAE Mobilus 4.0 (La Nuova Piattaforma 2024)

SAE Mobilus 3.0

<https://saemobilus.sae.org>

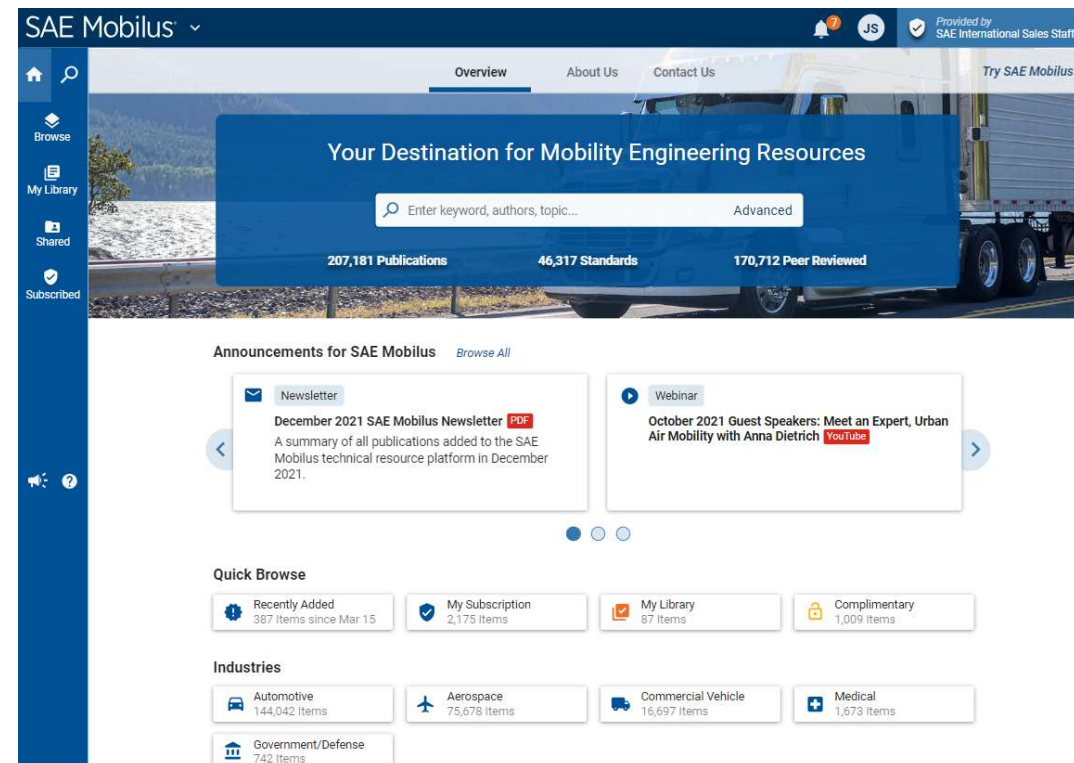
SAE Mobilus 4.0

<https://saemobilus-beta.sae.org/>



The screenshot shows the SAE Mobilus 3.0 homepage. At the top, there is a navigation bar with 'SAE Mobilus Home', 'Search', 'Dashboard', 'Learning Center', 'Browse', and 'Standards'. Below this is a large blue banner with the text 'Your Destination for Mobility Engineering Resources' and 'Over 207,000 Publications'. A search bar is present with the placeholder 'Enter keyword, authors, product code...'. To the right, there is a section for 'SAE EDGE RESEARCH REPORTS' with a sub-header 'SAE Publications' and a description: 'SAE EDGE™ Research Reports provide examinations of the most significant topics facing the mobility industry today with a dedicated focus on pre-consensus or unsettled technologies.' Below the banner, there are sections for 'About SAE MOBILUS' and 'Browse SAE MOBILUS Resources'. The 'Browse SAE MOBILUS Resources' section is a table with three columns: 'Publications by TOPIC', 'BOOK Publications', and 'Publications by EVENT'.

| Publications by TOPIC | BOOK Publications | Publications by EVENT |
|-----------------------|--|---|
| Bodies and Structures | 2009 Ultimate GD&T Pocket Guide 2nd Ed | International Conference on Advances in Design, Materials |
| Cybersecurity | Fundamentals of | |



The screenshot shows the SAE Mobilus 4.0 homepage. At the top, there is a navigation bar with 'Overview', 'About Us', and 'Contact Us'. Below this is a large blue banner with the text 'Your Destination for Mobility Engineering Resources' and a search bar with the placeholder 'Enter keyword, authors, topic...'. Below the banner, there are statistics: '207,181 Publications', '46,317 Standards', and '170,712 Peer Reviewed'. Below the statistics, there is a section for 'Announcements for SAE Mobilus' with two cards: 'December 2021 SAE Mobilus Newsletter' and 'October 2021 Guest Speakers: Meet an Expert, Urban Air Mobility with Anna Dietrich'. Below the announcements, there is a 'Quick Browse' section with four cards: 'Recently Added', 'My Subscription', 'My Library', and 'Complimentary'. Below the quick browse, there is an 'Industries' section with four cards: 'Automotive', 'Aerospace', 'Commercial Vehicle', and 'Medical'. Below the industries, there is a 'Government/Defense' card.

| Publications by TOPIC | BOOK Publications | Publications by EVENT |
|-----------------------|--|---|
| Bodies and Structures | 2009 Ultimate GD&T Pocket Guide 2nd Ed | International Conference on Advances in Design, Materials |
| Cybersecurity | Fundamentals of | |

SAE Mobilus

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Iniziare è facilissimo!

Clicca Qui: <https://saeMobilus.sae.org/>

Effettuare il log-in utilizzando uno dei due metodi:

- Nome Utente/Password
(vi conatterà automaticamente in base all'IP del vostro computer)
- Accesso singolo
(reindirizzamento che contiene le credenziali necessarie per l'accesso)



NON SICURI DI QUALE METODO D'ACCESSO UTILIZZARE?

L'amministratore SAE Mobilus della vostra organizzazione può fornirvi il metodo d'accesso a SAE Mobilus.



Siete interessati ad una dimostrazione?

Contattate l'amministratore della vostra organizzazione per una dimostrazione SAE Mobilus registrata o da programmare.

The image displays the SAE Mobilus website interface. The main page includes a navigation bar with 'Overview', 'About Us', and 'Contact Us'. A central banner reads 'Your Destination for Mobility Engineering Resources' with statistics: 207,181 Publications, 46,317 Standards, and 170,712 Peer Reviewed. Below this are 'Announcements for SAE Mobilus' and 'Quick Browse' sections. A 'Subscription Access' modal is open, showing 'Subscription Login' and 'Institutional Login' options. A 'Login' modal is also shown with 'My Login (Personal)' and 'Subscription Login' options. A user profile dropdown is visible with options like 'Manage Profile', 'Settings', 'Subscription Login', and 'Logout'.

SAE Mobilus 4.0 (La Nuova Piattaforma 2024)

<https://saemobilus-beta.sae.org/>

Risposte di ricerca immediate

The screenshot shows the SAE Mobilus 4.0 beta website interface. At the top, there is a navigation bar with 'SAE Mobilus' on the left, 'BETA VERSION' in the center, and 'My Login (Personal)' and 'Provided by Deanet srl' on the right. Below the navigation bar, there are tabs for 'Overview', 'About Us', and 'Contact Us'. A search bar is located in the top left corner of the main content area, with the text 'cyber' entered. A dropdown menu shows search results: 'cybersecurity', 'cybersecurity guidebook', 'cybersecurity guidebook for', 'cybersecurity guidebook for cyber-physical', and 'cyber-physical'. The number '206,522' is visible next to the search bar. Below the search bar, there is a section titled 'Announcements for SAE Mobilus' with a 'Browse' link. A 'Service Notice' is displayed, titled 'Welcome to the Mobilus beta website'. The notice text reads: 'Welcome to Mobilus beta! The Mobilus team is thrilled to announce the launch of the beta version of the redesigned Mobilus website, which marks a significant milestone in our journey toward delivering the best possible experience to o...'. To the right of the notice, there is a section titled 'What's new?' with the text: 'The following features have been added to the beta website: Site navigation - Horizontal navigation pane at the top includes: Access to enterprise menu (links to other SAE/ Fullsight applications), Login, Notifications - Vertic...'. The left sidebar contains icons for 'Browse', 'My Library', and 'Subscription'.

SAE Mobilus 4.0 (La Nuova Piattaforma 2024)

Strumenti di ricerca

The screenshot displays the SAE Mobilus 4.0 search interface. At the top, the search bar contains the text "giacomo risitano". The left sidebar features navigation options: "Browse", "My Library", and "Subscription". Below these are filter sections for "Industries" and "Content Types", both of which are highlighted with a red border. The "Industries" section includes checkboxes for Automotive (343), Commercial Vehicle (21), Aerospace (19), and Medical (1). The "Content Types" section includes checkboxes for Technical Paper (320), Journal Article (74), Recommended Practice (9), Magazine Article (3), Book (2), Reference (2), and Technical Standard (2). The main content area, titled "Results", shows a list of items (412) sorted by Relevance. Two items are visible: "Drag Optimization of a Sport Motorbike" and "Analysis of the Structural Behavior of Racing Motorcycle Swingarms". Both items are marked as "Technical Paper" and include a date of 04/16/2012. The authors listed for both items are Scappaticci, Lorenzo, Risitano, Giacomo, Battistoni, Michele, Grimaldi, Carlo, and Mariani, Francesco.

SAE Mobilus 4.0 (La Nuova Piattaforma 2024)

Strumenti di ricerca

SAE Mobilus ▼ BETA VERSION My Login (Personal) Provided by Deanet srl

Search

Topics

- Power and Propulsion (293)
- Powertrains (269)
- Engines (268)
- Environment (261)
- Emissions (238)
- Exhaust emissions (206)
- Diesel / compression ignition engines (195)
- Fuels and Energy Sources (187)
- On-board energy sources (182)
- Combustion and combustion processes (147)
- Particulate matter (PM) (128)
- Diesel fuels (106)
- Design Engineering and Styling (101)
- Nitrogen oxides (89)
- Engine components (84)

[View More \(185\)](#)

Authors

- Beatrice, Carlo (28)

competitions, such as the World Super Bike Championship, are fulfilled, since the fairing equipment remains quite similar ...
Scappaticci, Lorenzo, **Risitano, Giacomo**, Battistoni, Michele, Grimaldi, Carlo

Technical Paper

Analysis of the Structural Behavior of Racing Motorcycle Swingarms
2012-01-0207 [✎](#) 04/16/2012

The problems which arise during the design of a motorcycle, may affect the proper functioning of the vehicle, and ride comfort. This type of problem is particularly found in sport where mechanical components which can cause malfunctioning should, be replaced quickly within a very limited time. This work is an investigation of the swingarm component. The aim is to link objective data such as stiffness and natural frequencies (derived through the application of scientific method) wi...
Risitano, Giacomo, Scappaticci, Lorenzo, Grimaldi, Carlo, Mariani, Francesco

Recommended Practice

Handbook for Robustness Validation of Automotive Electrical/Electronic Modules
J1211_201211 [📊](#) 11/19/2012

This document addresses robustness of electrical/electronic modules for use in automotive applications. Where practical, methods of extrinsic reliability detection and prevention will also be addressed. This document primarily deals with electrical/electronic modules (EEMs), but can easily be adapted for use on mechatronics, sensors, actuators and switches. EEM qualification is the main scope of this document. Other procedures addressing random failures are specifically addressed ...
Automotive Electronic Systems Reliability Standards

Technical Paper

Static/Fatigue Structural Behaviour of Damaged Stiffened Composite Plates for UAS Applications
2013-01-2161 [✎](#) 09/17/2012

Weight reduction in structural aerospace configuration is based both on specific material selection and on the selection of

SAE Mobilus 4.0 (La Nuova Piattaforma 2024)

Strumenti di ricerca

The screenshot displays the SAE Mobilus 4.0 search interface. At the top, the search bar contains the query "giacomo risitano". The left sidebar features navigation options: "Browse", "My Library", and "Subscription". Below these, a list of authors is shown, with "Giacomo Risitano" highlighted in red. Other authors listed include Beatrice, Carlo (28), Bertoli, C. (28), Del Giacomo, N. (24), Beatrice, C. (22), Guido, Chiara (15), Di Blasio, Gabriele (14), Belardini, P. (12), Belgiorno, Giacomo (11), Del Giacomo, Nicola (9), and Frulla, Giacomo (9). Below the authors list, there are dropdown menus for "Affiliations", "Publishers", and "Events", all of which are also highlighted in red. The main content area displays search results for the query. The first result is a "Technical Paper" titled "Analysis of the Structural Behavior of Racing Motorcycle Swingarms" (2012-01-0207) by Scappaticci, Lorenzo, Risitano, Giacomo, Battistoni, Michele, Grimaldi, Carlo, dated 04/16/2012. The second result is a "Recommended Practice" titled "Handbook for Robustness Validation of Automotive Electrical/Electronic Modules J1211_201211" (11/19/2012) by Scappaticci, Lorenzo, Grimaldi, Carlo, Mariani, Francesco. The third result is a "Technical Paper" titled "Static/Fatigue Structural Behaviour of Damaged Stiffened Composite Plates for UAS Applications" (2013-01-2161) dated 09/17/2013.

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HTML & PDF Version

Pagina del prodotto "Technical Papers"

Strumenti SAE Mobilus

Automotive Technical Paper

Drag Optimization of a Sport Motorbike

2012-01-1171

1 Description 2 View 3 References 4 Related 5 Citation

1 Features

Annotate

HTML Description Articles

Event
SAE 2012 W

Authors

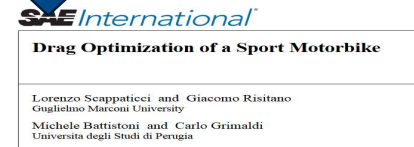
Lorenzo Scappaticci
Guglielmo Marconi University

Giacomo Risitano
Guglielmo Marconi University

Michele Battistoni
Universita degli Studi di
Perugia

Abstract

This work focuses on optimizing the aerodynamic design of a vehicle produced for supersport use search for the best performance in terms of aerodynamics by optimizing the behavior with slight the distinctive forms of the fairing of the vehicle, keeping the motorbike recognizable: in this way competitions, such as the World Super Bike Championship, are fulfilled, since the fairing equipme the OEM one. As a matter of fact, the optimization was obtained by realizing slight changes and s appendices that can be produced aftermarket.



ABSTRACT
This work focuses on optimizing the aerodynamic design of a vehicle produced for supersport use. The main objective was to search for the best performance in terms of aerodynamics by optimizing the behavior with slight changes, in order to of the vehicle, way the rules of d Super Bike fairing equipment matter of fact, the optimization was obtained by realizing slight changes and suitable aerodynamic appendices that can be produced aftermarket.

INTRODUCTION
In popular belief, the "character" of a motorcycle can be determined at a first look, basing on instinctive feelings transmitted from its aesthetics: as an example a large windshield can suggest a touring usage for the bike, while a slender and tight fairing evokes a sporty or racing use.

INTRODUCTION
Road and supersport motorbikes produced by the most famous manufacturers have, in general, the same characteristics: they are all equipped with fairings and have more or less enveloping, compelling and appealing forms. Very often we tend to accept "the aggressive appearance" of a motorcycle as guarantee of excellent performance from an aerodynamic point of view. If may happen, nevertheless, that the needs of marketing -which dictate the style and design- and the aerodynamic requirements -which are instead linked to comfort and performance- go in opposite directions. The

result is, inevitable style, could dan choice is underst is undoubtedly aerodynamic perf
This work focus aerodynamic per "aesthetic recogn how can aerodyn without distorting were conducted a wind tunnel facili

AERODYN AESTHETI
When the shape o account the fac important aspect operation (radiate the links existi preliminary desig

The connection evident since the characteristics. A since the aerodyn and stability of t sensitivity of the motorcycle-rider system to the side wind.

The motorcycles manufacturers are increasingly attentive about the aerodynamic comfort. The aerodynamics of road

- Export
- Print
- Add to shared
- Expand All
- Collapse All
- Download
- Add to My Library
- Share

SAE Mobilus 4.0 (La Nuova Piattaforma 2024)

Pagina del prodotto "Technical Papers"

Strumenti SAE Mobilus

The screenshot displays the SAE Mobilus 4.0 interface for a technical paper. The main page features a navigation bar with tabs for Description, View, References, Related, and Citation. The paper title is "Drag Optimization of a Sport Motorbike" (2012-01-1171). The authors listed are Lorenzo Scappaticci and Giacomo Risitano, Guglielmo Marconi University, and Michele Battistoni and Carlo Grimaldi. A yellow callout box labeled "View: HTML Article" is positioned over the article content. A navigation bar at the top includes "Automotive" and "Technical Paper" filters. A "References" panel on the right lists eight related papers, with a yellow callout box labeled "References" pointing to it. Below the references, a "Related Articles" section shows "99 Articles..." with a yellow callout box labeled "Related Articles". A "Citation" panel at the bottom right shows the citation text for the current paper, with a yellow callout box labeled "Citation".

1 Description 2 View 3 References 4 Related 5 Citation

2 View

Document Annotation

SAE INTERNATIONAL

View: HTML Article

2012-01-1171
Published 04/16/2012
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doi:10.4271/2012-01-1171

Drag Optimization of a Sport Motorbike

Lorenzo Scappaticci and Giacomo Risitano
Guglielmo Marconi University

Michele Battistoni and Carlo Grimaldi

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2012-01-1171
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Journal Article

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Automotive Technical Standard

J192_202001 Maximum Exterior Sound Level for Snowmobiles

Revised 01/15/2020

1 Description 2 View 3 Data Sets 4 Related 5 Citation

1 Annotate Data Sets Redlined

Issuing Committee: Snowmobile Technical Committee

Scope: **HTML Description Standards**

This SAE standard establishes the instrumentation, test site, and test procedure for determining the maximum exterior sound level for snowmobiles. Sound propagation is directly related to the ground cover and provides the largest variation to the measured result. A correction factor is introduced to improve year-round test repeatability of the results on grass surfaces by correcting their spectrum to be similar to snow-covered spectra. Measured sound pressure levels are also highly dependent on the degree of track slip present when performing the vehicle acceleration. Operators should attempt to limit track slip as much as possible while maintaining the requirements described in 5.1.1.

PDF Standards

| J192™ | JAN2020 |
|--------------------------|---------|
| Issued 1970-09 | |
| Reaffirmed 1985-03 | |
| Revised 2020-01 | |
| Superseding J192 JAN2019 | |

Maximum Exterior Sound Level for Snowmobiles

RATIONALE

The committee has agreed to and updated a rounding error in 5.2.2 and relocated some text from 5.5.2 to a newly added Section 6, called Data Processing and Reporting. Imperial units were removed.

1. SCOPE

This SAE standard establishes the instrumentation, test site, and test procedure for determining the maximum exterior sound level for snowmobiles.

Sound propagation is directly related to the ground cover and provides the largest variation to the measured result. A correction factor is introduced to improve year-round test repeatability of the results on grass surfaces by correcting their spectrum to be similar to snow-covered spectra.

Measured sound pressure levels are also highly dependent on the degree of track slip present when performing the vehicle acceleration. Operators should attempt to limit track slip as much as possible while maintaining the requirements described in 5.1.1.

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Compare to

- J192_202103
- J192_201901
- J192_201301
- J192_201103
- J192_200303
- J192_198503

J192_202001 SURFACE VEHICLE STANDARD
Issued 1970-09
Reaffirmed 1985-03
Revised 2020-01
Superseding J192 JAN2019

Maximum Exterior Sound Level for Snowmobiles

CITATION: SAE International Technical Standard, Maximum Exterior Sound Level for Snowmobiles, SAE Standard J192_202001, Revised January 2020, Reaffirmed March 1985, Issued September 1970, https://doi.org/10.4271/J192_202001

Redlining tool

Data Sets

Automotive Technical Standard

J192_202001 Maximum Exterior Sound Level for Snowmobiles 01/15/2020

Revised

Description View Data Sets Related Citation

Related Standards

Data Sets - Support Documents

| AZ | Title |
|--------------------|-------|
| J192_202001_1.xlsx | |
| J192_202001_2.xlsx | |
| J192_202001_3.xlsx | |

Related (99)

Recommended Practice

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This SAE Recommended Practice establishes the test procedure, environment, instrumentation, and data analyses for comparing interior sound level of passenger cars, multipurpose vehicles, and light trucks having gross vehicle weight rating (GVWR) of 4540 kg (10 000 lb) or less. The test procedure is characterized by having fixed initial conditions (specified initial...

J192_201301 2013-01-10

J192_201103 2011-03-06

J192_200303 2003-03-07

J192_198503 1985-03-01

Citation

J192_202001 Maximum Exterior Sound Level for Snowmobiles 01/15/2020

Revised

Description View Data Sets Related Citation

Citation

SAE International Technical Standard, Maximum Exterior Sound Level for Snowmobiles, SAE Standard J192_202001, Revised January 2020, Reaffirmed March 1985, Issued September 1970, https://doi.org/10.4271/J192_202001.

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Linea Rossa:

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J192_202001 J192_201301
SURFACE VEHICLE STANDARD RECOMMENDED PRACTICE
Issued 1970 - 09
Reaffirmed 1995 - 03
Revised 2020 2013 - 01
Superseding J192 JAN2019 MAR2011

Maximum Exterior Sound Level for Snowmobiles

Snowmobile Technical Committee

RATIONALE

The committee has agreed to and updated a rounding error in upon increasing tolerances on entry speed and full throttle position to reduce 5.2.2 and relocated some text from 5.5.2 to a newly added the amount of test runs needed to satisfy requirements. These Section 6, called Data Processing and Reporting. Imperial units were removed increases in tolerance do not change the highest sound measured for the test.

FOREWORD

This SAE Recommended Practice is intended as a guide toward standard practice, but may be subject to frequent change to keep pace with experience and technical advances.

J192_202103
2021-03-01

Historical

J192_202001
2020-01-15

J192_201901
2019-01-23

J192_201301
2013-01-10

J192_201103
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J192_200303
2003-03-07

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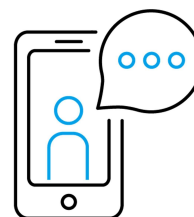
Fabrizio Ligi

Ph: +39 06 8553154

Mobile: +39 348 6508104

fabrizio.ligi@deanet.com

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Fabrizio Ligi

Chief Executive Director

Italy Agency

SAE International Society of Automotive Engineers

Deanet srl

Via Lima 28

00198 Roma

Italy

Ph: +39 06 8553154

Fax: +39 06 8553154

Mobile: +39 348 6508104

fabrizio.ligi@deanet.com

www.deanet.com

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