

中国公路学会自动驾驶工作委员会文件

中公秘自驾字〔2020〕6号

关于征集“第三届车路协同自动驾驶国际论坛”论文的通知

各有关单位：

第三届车路协同自动驾驶国际论坛拟于2020年第四季度举办（具体时间、地点另行通知）。本届论坛由中国公路学会自动驾驶工作委员会（简称“自驾委”）主办，国际自动机工程师学会（SAE International 原译：美国汽车工程师学会）等相关组织协办，同时作为2020年自驾委学术年会。

论坛将邀请相关行业院士、企业高层、技术领军人物、资深专家学者、广大科技工作者，通过主旨报告、专题论坛、论文交流、成果展览、专业赛事等形式，讨论行业热点，展示自动驾驶领域最新成果，引领前瞻性技术发展方向和应用探讨。

为及时总结车路协同自动驾驶领域的最新研究成果，引

领该领域理论创新和学术研究，现面向全球相关行业征集论文，现将相关事宜通知如下。

一、征文范围

本次征文范围包括但不限于以下议题：

智能交通技术

1. Connected and automated vehicle highway (CAVH) system 智能网联交通系统

2. V2X technology, scenario and system 车路协同技术、场景与系统

3. Highway network management using big data 基于大数据的路网综合管理

4. Digital transport infrastructure 交通基础设施数字化

5. Traffic flow theory and driving behavior in mixed connected vehicles environment 混合车联网环境下的交通流理论与驾驶行为

6. Transportation safety and security for CAVs 交通安全、自动驾驶安全问题

7. Mobility as a service (MaaS) 出行即服务

8. Human factors in era of connected and automated transportation 智能网联交通时代的人因工程

9. Laws and regulations 法律法规、政策引导等

智能网联汽车技术

1. HD map and positioning 高精度地图与定位

2. Cyber security 网络安全
3. Artificial intelligence and machine learning for CAVs 人工智能与机器学习在网联汽车中的应用
4. Man-machine driving and HMI 人机共驾与 HMI 设计
5. Urban traffic operation and signal control in era of CAVs 基于网联汽车的交通管理与控制
6. Automated driving and unmanned delivery in urban transport and logistics 自动驾驶、无人配送等商业模式在城市交通与物流应用
7. Modelling, simulating, testing and evaluating technology for CAVs 建模、仿真、测试与评价技术
8. Industrializing practice and business model of intelligent connected vehicles 智能网联汽车产业化实践与商业模式

二、论文发表

经学术委员会评审录用的论文将收录至 SAE International 会议论文集发表，并收入 EI 检索。同时，会议将评选优秀论文，并邀请优秀论文作者到会做技术报告。

三、投稿要求

1. 论文应符合主题，内容充实，学风严谨，未曾公开发表。非个人成果或涉及科研机密成果发表，作者自负文责。
2. 稿件语言为英文，须通过 SAE 线上投稿系统提交，同时将稿件和题目发至自驾委联系人邮箱。

3. 稿件格式: 论文格式要求详见附件。

4. 特别提示: SAE 论文投稿系统链接和投稿须知, 请留意后续通知; 与本次征文主题不符的文章, 请勿投稿。

5. 时间节点: 2020 年 5 月 31 日开始投稿; 2020 年 8 月 31 日截止投稿; 2020 年 9 月 30 日发布录用通知。

四、联系人

联系人: 段秀琴; 毕军

电 话: 18518788547; 13488812321

邮 箱: duanxiuqin@hotmail.com; bilinghc@163.com

附件: 论文投稿模板

中国公路学会自动驾驶工作委员会
(中国公路学会秘书处代章)

2020年5月8日

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Abstract

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- Abstract MUST be one paragraph and between 250-300 words.
- The paper is the authoritative source for the abstract.
- Footnotes, figures, tables, and equations cannot be included in the abstract (or title).

Introduction

The [Head1] style is a Level 1 heading. It has been applied to the “Abstract” and “Introduction” headings. A [Head1] is 12 point, initial caps, bold. [Normal] style text and other levels of headings ([Head2], [Head3], and [Head4]) should be used to structure the content within any given section.

First Heading of Body

The body of the paper should include detailed and structured description of the work performed, including (as appropriate) methodology, assumptions, hardware, observations, analysis, and a comparison of results with prior work. The information presented must be self-contained (in the sense that the reader is not assumed to have read prior papers) and provide an appropriate level of detail for the intended audience. Define all terms at first

usage and apply them consistently.

The body section is not entitled “Body.” Rather it comprises multiple sections and subsections titled using topical headings in a four-level structure. Template styles [Head1] through [Head4] are used to tag and format titles of the different levels. No specific heading titles are mandated, but common examples include Methods, Results, and Discussion. The [Normal] style tag is used for paragraph text. Figures, tables, and equations fall under the body section. Found in this template are examples of a figure, a table, and equations (which must be kept to 3.5 inches wide).

Head 2 Example

A [Head 2] style tag applied to the heading above is 11 point, initial caps, bold, italic. The [Normal] style tag should be used for paragraph text which is 9 point, regular.

Head 3 Example

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Head 4 Example

A [Head4] style tag applied to the heading above is 9 point, initial caps, bold, italic. The [Normal] style tag should be used for paragraph text which is 9 point, regular.

Table 1. This is an example of a table and table title. For tables, the recommended size is 3.5 inches. Table titles are 8 point, SAE Blue, and are placed above the table. The Normal Table Text style tag should be applied to the table text.

Displaced volume	1966 cc
Stroke	154 mm
Bore	127.5 mm
Connecting Rod	255 mm
Compression ratio	14.3:1
Number of Valves	4
Exhaust Valve Open	34° BBDC @ 0.15 mm lift
Exhaust Valve Close	6° BTDC @ 0.15 mm lift
Inlet Valve Open	2° BTDC @ 0.15 mm lift



Figure 1. Example of a figure and figure caption. The sample figure has been sized to 3.5 inches wide, which is the recommended size. Captions for figures are 8 point, SAE Blue, and are placed below the figure.

1. This is an example of an ordered list. When creating this type of list do not enclose number or letter in parentheses i.e., (1) or (a). Instead number as shown in this example.

Shown are examples of equations. All equations wider than 3.5 inches must be wrapped to the next line as shown in equation 2.

$$\frac{d\lambda}{dt} = \left[\frac{\sqrt{1+161\left(\frac{x}{x^+}\right)^2} - 12}{2(A/F)_{st}} - \frac{\sqrt{1+161\left(\frac{x_{prev}}{x^+}\right)^2} - 1}{2(A/F)_{st}} \right] (1 - BGF_{st}) \cdot \frac{12}{(t-t_{prev})}$$

(1)

$$\Delta K_{aero_f}(0) = -\frac{1}{2} \frac{\partial K_f}{\partial W_f} L_{aero_f} + \dots + \frac{1}{2l} \left(l_r \frac{\partial F_{aero_y}}{\partial \beta} + \frac{\partial M_{aero_z}}{\partial \beta} \right) \left(\frac{l_f}{l_r K_r} - \frac{l}{mV^2} \right) K_f$$

(2)

Summary/Conclusions

If the Summary/Conclusions section is not wanted, delete this heading and text.

References

1. SAE uses the Chicago Manual of Style in formatting references. In the text of the paper the citations are numerically identified using square brackets [1]. Up to four authors should be listed; more than four, et al. should be used after the fourth author is listed. Refer to the SAE Technical Paper Style Guide for formatting of different types of references. Apply the List-Ordered-Numeric style tag to format references. Below are some examples.
2. Guo, Q. and Liu, B., "Simulation and Physical Measurement of Seamless Passenger Airbag Door Deployment," SAE Technical Paper 2012-01-0082, 2012, doi:10.4271/2012-01-0082.
3. Kunkel, S., Zimmer, T., and Wachtmeister, G., "Friction Analysis of Oil Control Rings during

Running-In," SAE Technical Paper 2011-01-2428, 2012, doi:10.4271/2011-01-2428.

4. Morgan, R., Scullion, P., Nix, L., Kan, C. et al., "Injury Risk Investigation of the Small, Rear-seat Occupant in Side Impact," SAE Technical Paper 2012-01-0092, 2012, doi:10.4271/2012-01-0092.
5. Kimura, Y. and Murakami, M., "Analysis of Piston Friction - Effects of Cylinder Bore Temperature Distribution and Oil Temperature," *SAE Int. J. Fuels Lubr.* 5(1):1-6, 2012, doi:10.4271/2011-01-1746.
6. SAE International Surface Vehicle Recommended Practice, "Laboratory Measurement of the Composite Vibration Damping Properties of Material on a Supporting Steel Bar," SAE Standard J1637, Rev. Aug. 2007.

Contact Information

Contact details for the main author should be included here. Details may include mailing address, email address, and/or telephone number (whichever is deemed appropriate).

Acknowledgments

If the Acknowledgments section is not wanted, delete this heading and text.

Definitions/Abbreviations

SA	sample abbreviations
UBT	Use borderless table ≤ 3.5 inches wide.
test vector	Don't capitalize term unless an acronym or proper noun.

Appendix

The Appendix is one-column. If you have an appendix in your document, you will need to insert a continuous page break and set the columns to one. If you do not have an appendix in your document, this paragraph can be ignored a