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ARTICLE

Creating an open community to support reusable and reproducible aviation science

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Abstract

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Keywords: Aviation; reproducibility; transparency; data; software; re-science

Abbreviations: ATM: Air Traffic Managment, ADS-B: Automatic Dependent Surveillance-Broadcast

1. Introduction

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2. Method

2.1 Method 1

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Figure 1. JOAS Logo

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

2.2 Method 2

2.2.1 Method 2-1

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$$E = mc^2 (1)$$

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Parameter	Notation	Remarks
name	-	engine common identifier
manufacture	-	-
bpr	λ	bypass ratio
pr	-	pressure ratio
max_thrust	T_0	maximum static thrust, sea level (unit: N)
fuel_c3	$C_{ m ff3}$	fuel flow coefficient, 3rd order term (unit: kg/s)
fuel_c2	$C_{ m ff2}$	fuel flow coefficient, 2nd order term (unit: kg/s)
fuel_c1	$C_{ m ff1}$	fuel flow coefficient, 1st order term (unit: kg/s)
cruise_thrust	$T_{\rm cr}$	thrust at the top of climb (unit: N)
cruise_mach	$M_{\rm cr}$	cruise Mach number for the thrust condition
cruise_alt	h_{cr}	cruise Mach altitude for the thrust condition (unit: ft)

Table 1. Engine performance parameters

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Some example open open-source research data (Schäfer et al. 2014) and tools (Olive 2019; Sun, Hoekstra, and Ellerbroek 2020).

3. Conclusion

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Acknowledgement

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References

Olive, Xavier. 2019. "Traffic, a toolbox for processing and analysing air traffic data." *Journal of Open Source Software* 4 (39): 1518–1.

Schäfer, Matthias, Martin Strohmeier, Vincent Lenders, Ivan Martinovic, and Matthias Wilhelm. 2014. "Bringing up OpenSky: A large-scale ADS-B sensor network for research." In *IPSN-14 Proceedings of the 13th International Symposium on Information Processing in Sensor Networks*, 83–94. IEEE.

Sun, Junzi, Jacco M Hoekstra, and Joost Ellerbroek. 2020. "OpenAP: An open-source aircraft performance model for air transportation studies and simulations." *Aerospace* 7 (8): 104.

Appendix 1. Supplementary figures

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Appendix 2. Supplementary data tables

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