Towards Swifter Interstellar Mail Delivery v(amount: 14.17pt) Joana Swift, Egon Stellaris and Oliver Liam v(amount: 99.21pt)	
Abstract — Recent advances in space-based document processing have enabled faster mail delivery between different planets of a solar system. Given the time it takes for a message to be transmitted from one planet to the next, its estimated that even a one-way trip to a distant destination could take up to one year. During these periods of interplanetary mail delivery there is a slight possibility of mail being lost in transit. This issue is considered so serious that space management employs P.I. agents to track down and retrieve lost mail. We propose A-Mail, a new anti-matter based approach that can ensure that mail loss occurring during interplanetary transit is unobservable and therefore potentially undetectable. Going even further, we extend A-Mail to predict problems and apply existing and new best practices to ensure the mail is delivered without any issues. We call this extension AI-Mail.	
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1 Introduction

Our concept suggests three ways that A-Mail can be best utilized.

- First is to reduce the probability of the failure of a space mission. This problem, known as the Mars problem, suggests that the high round-trip time required for communication between Mars and Earth inhibits successful human developments on the planet. Thanks to A-Mail's faster-than-light delivery system this problem could be solved once and for all.
- As A-Mails are written using pen and paper, no digital technology is needed for short and long distance communication. This suggests a possibility of reducing the communication monopoly currently held by an entity known as the "internet". Our suggestion of A-Mail being responsible for postal delivery would reduce dependence on online services by delivering the vast majority of mail offline. Space is a place where drastic changes in methods of production and distribution can easily occur.
- Lastly, A-Mail is capable of performing high-level complex calculations. It is this
 capability that distinguishes A-Mail from traditional space mailers. This is an especially useful capability when planning long-distance space missions.

The delivery speed of an A-Mail can be determined through this simple formula:

$$v(t) = \lim_{t \to \infty} \int_{-\infty}^{\infty} c \cdot \sqrt{t^2} \, \mathrm{d}t \tag{1}$$

Building on the strong foundations of A-Mail, we extend our platform to predict problems and apply existing and new best practices to ensure the mail is delivered without any issues. We call this extension AI-Mail. AI-Mail is a new concept designed and delivered by artificially intelligent (AI) agents. The AI-Mail agents are intelligently designed to solve problems at various points in the delivery chain. These problems are related to targeting, delivery delay, tone of delivery, product information, product return, system crash, shipment error and more. AI-Mail provides a one-stop solution for A-Mail's shortcomings.

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$$|\nabla_{\alpha}^{\mu}(y)| \leq \frac{1}{d-a} \int \left| \nabla \frac{1}{|\xi - y|^{d-\alpha}} \right| d\mu(\xi) = \int \frac{1}{|\xi - y|^{d-\alpha+1}} d\mu(\xi)$$

$$= (d-\alpha+1) \int_{d(y)}^{\infty} \frac{\mu(B(y,r))}{r^{d-\alpha+2}} dr \leq (d-\alpha+1) \int_{d(y)}^{\infty} \frac{r^{d-\alpha}}{r^{d-\alpha+2}} dr$$
(2)

¹In physics texts please depict your vectors in **boldface-italic** type - as is customary for a wide range of physical subjects.

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Towards Swifter Interstellar Mail Delivery

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Theorem 1 (Euclid): There are infinitely many primes.

Proof of **Theorem 1**: Suppose to the contrary that $p_1, p_2, ..., p_n$ is a finite enumeration of all primes. Set $P = p_1 p_2 ... p_n$. Since P+1 is not in our list, it cannot be prime Thus, some prime factor p_j divides P+1. Since p_j also divides P, it must divide the difference (P+1)-P=1, a contradiction.

Lemma 2: If n divides both x and y, it also divides x - y. [2, 3]

Corollary 2.1: if *n* divides two consecutive natural numbers, then n = 1.

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Table 1: You can make the table yourself using native Typst elements for simple data

Classes	Subclass	Length	Action Mechanism
Translation	mRNA a	22 (19-25)	Translation repression, mRNA cleavage
Translation	mRNA cleavage	21	mRNA cleavage
Translation	mRNA	21-22	mRNA cleavage
Translation	mRNA	22-24	Histone and DNA modification

Table foot note (with suberscript)

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Table 2: The alternative this template makes available is the construction of tables by column instead of by row

Classes	Subclass	Length	Action Mechanism
Translation	mRNA a	22 (19-25)	Translation repression, mRNA cleavage
Translation	mRNA cleavage	21	mRNA cleavage
Translation	mRNA	21-22	mRNA cleavage
Translation	mRNA	22-24	Histone and DNA modification

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2 Subsection Heading

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Type 2 That addresses central themes pertaining to migration, health, and disease. In Sect. 1, Wilson discusses the role of human migration in infectious disease distributions and patterns.

If at any point you want to break to a new page, you can do so by calling pagebreak()

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2. Goossens, M., Mittelbach, F., Samarin, A.: The LaTeX∖ Companion. Addison-Wesley, Reading, Massachusetts (1993)	
 Knuth, D.: Knuth: Computers and Typesetting, http://www-cs-faculty.stanfordedu/-wwo/abcde.html 	•