The Title of My Paper

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Abstract

This is my not really very long abstract. This is my not really very long abstract. This is my not really very long abstract. This is my not really very long abstract. This is my not really very long abstract. This is my not really very long abstract. This is my not really very long abstract. This is my not really very long abstract. This is my not really very long abstract. This is my not really very long abstract. This is my not really very long abstract. This is my not really very long abstract. This is my not really very long abstract. This is my not really very long abstract.

1 Introduction

Note these beautiful Unicode symbols: ä ö ü € and ß. See my papers [6, 5]. Also see [1] and [3] and do not overlook [2] and [4]. See Section 5.

This is another paragraph. This is another paragraph. This is another paragraph. This is another paragraph. This is another paragraph. This is another paragraph. This is another paragraph. This is another paragraph. This is another paragraph. This is another paragraph. This is another paragraph. This is another paragraph. This is another paragraph. This is another paragraph. This is another paragraph.

The typographically very important effect of hyphenation. The typographically very important effect of hyphenation. The typographically very important effect of hyphenation. The typographically very important effect of hyphenation. The typographically very important effect of hyphenation. The typographically very important effect of hyphenation. The typographically very important effect of hyphenation. The typographically very important effect of hyphenation. The typographically very important effect of hyphenation. The typographically very important effect of hyphenation. The typographically very important effect of hyphenation. The typographically very important effect of hyphenation. The typographically very important effect of hyphenation. The typographically very important effect of hyphenation. The typographically very important effect of hyphenation. The typographically very important effect of hyphenation.
2 My Results

See Figure 1 on page 2.

One Thought Some formulas:

\[(a + b)^2 = a^2 + 2ab + b^2\]

\[SUM = SUM = S \cdot U \cdot M\]

No new paragraph (no indentation).

Another Thought The Gauss formula \(\sum_{i=1}^{n} i = \frac{n(n+1)}{2}\) displayed:

\[\sum_{i=1}^{n} i = \frac{n(n + 1)}{2}\]

Now a new paragraph (indentation): Einstein says \(E = mc^2\) (“Energy equals mass times the square of the speed of light (c)”).

Some Typography St. John vs. St. John. Fig. 5 vs. Fig. 5. Vice-president. Monday–Tuesday. Wait — I have an idea. "Wrong Quote" vs. “Correct Quote”.

3 Some Mathematics

Definition 1 (Surjectivity) Let \(f : A \rightarrow B\) be a function from \(A\) to \(B\). Then \(f\) is surjective if for every \(b\) in \(B\) there is some \(a\) in \(A\) such that \(f\) applied to \(a\) yields \(b\), formally:

\[\forall b \in B. \exists a \in A. f(a) = b.\]
Theorem 1 (Composition of Surjective Functions) Let \( f : A \to B \) and \( g : B \to C \) be surjective functions (see Definition 1). Then the function \( f \circ g : A \to C \) (defined as \((f \circ g)(a) := g(f(a))\)) is surjective.

\[
\begin{proof}
\text{Left as an exercise to the reader.}
\end{proof}
\]

4 Some Programs

**Algorithm 1** Compute the set \( P \) of all primes less than or equal \( n \in \mathbb{N} \)

**Require:** \( n \in \mathbb{N} \)

**Ensure:** \( P = \{ p \mid p \in \mathbb{N} \land p \leq n \land \text{isPrime}(p) \} \)

\[
\begin{align*}
P & \leftarrow \emptyset \\
C & \leftarrow \{2, \ldots, n\} \\
\text{while } C \neq \emptyset \text{ do} \\
& \quad p \leftarrow \text{min}(C) \\
& \quad P \leftarrow P \cup \{p\} \\
& \quad C \leftarrow \{c \in C : p \nmid c\} \\
\end{align*}
\]

See Algorithm 1.

// HelloWorld.cpp
#include <iostream>
using namespace std;

int main() {
    char message[] = "Hello, World!";
    for (int i=0; i<10; i++)
        cout << message << "\n";
}

// HelloWorld.cpp
#include <iostream>
using namespace std;

int main() {
    char message[] = "Hello, World!";
    for (int i=0; i<10; i++)
        cout << message << "\n";
}
5 Conclusions


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