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A Capitalized Title: Something about a Package foo

FirstName LastName
University/Company

Second Author
Affiliation

Abstract

The abstract of the article.

Keywords: keywords, not capitalized, Java.

1. Introduction

This template demonstrates some of the basic latex you'll need to know to create a JSS article.

1.1. Code formatting

Don't use markdown, instead use the more precise latex commands:

- Java
- `plyr`
- `print("abc")`

2. R code

Can be inserted in regular R markdown blocks.

2.1. MVN

```
R> library(CuSMC)
R> mu = c(0, 0)
```

```
R> sigma = matrix(c(1, 0, 0, 1), nrow=2)
R> CuSMC::MVN(mu, sigma)
```

```
[1] 1.931198 1.741011
```

2.2. MVNPDF

```
R> library(CuSMC)
R> x = c(0, 0)
R> mu = c(0, 0)
R> sigma = matrix(c(1, 0, 0, 1), nrow=2)
R> CuSMC::MVNPDF(x, mu, sigma)
```

```
[1] 0.1591549
```

2.3. MVT

```
R> library(CuSMC)
R> mu = c(0, 0, 0)
R> sigma = diag(3)
R> nu = 3.0
R> CuSMC::MVT(mu, sigma, nu)
```

```
[1] -0.3027183 -2.4256343  2.3695596
```

2.4. MVTPDF

```
R> library(CuSMC)
R> x = c(0, 0, 0)
R> mu = c(0, 0, 0)
R> sigma = diag(3)
R> nu = 3.0
R> CuSMC::MVTPDF(x, mu, sigma, nu)
```

```
[1] 0.07799708
```

2.5. Metropolis-Hastings

```
R> library(CuSMC)
R> N = 100
R> w = rnorm(N, 0, 1)
R> B = 10
R> CuSMC::metropolis_hastings(w, N, B)
```

[1] 50 66 69 53 48 11 44 55 66 89 61 33 22 6 64 64 70 67 13 46 34 18 20 92 64
 [26] 89 64 55 94 81 18 20 11 23 84 94 74 11 95 89 91 91 2 39 77 33 69 97 34 47
 [51] 72 74 88 88 87 88 48 29 3 95 89 20 64 92 32 88 17 25 87 0 89 94 99 64 2
 [76] 33 5 9 18 3 57 64 44 71 36 30 2 25 55 55 47 43 44 92 73 60 47 69 41 47

Affiliation:

FirstName LastName

University/Company

First line Second line

E-mail: name@company.com

URL: <http://rstudio.com>