IT_EX Example

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2019.07

Abstract

This is the abstract. This is the abstract.

1 Introduction

1.1 Background

This is a document.

1.2 Math

This is an Add something. This is a stochastic differential equation:

$$\begin{cases} dX(t) = f(X(t))dt + \sum_{r=1}^{m} g_r(X(t)) \circ dW_r(t), & t \in [0, T], \\ X(0) = X_0, \end{cases}$$
(1)

where $f(x) \in \mathbb{R}^n$ is called the drift. Equation Eq. 1 is an SDE.

- First
 - aaaaa
 - bbbbb
- Second
- Third 1. First
- $2. \ {\rm Second} \ \ldots.$

- aaaaaaaa
- bbbbbbbb
- 3. Third

1.3 Figure

Figure 1 is a path of an one dimensional Wiener Process.

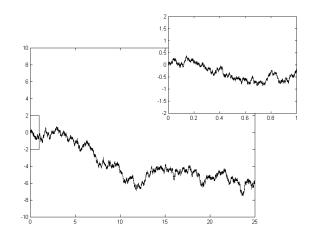


Figure 1: This is the figure caption.

1.3.1 Table

Α	В	С	D	Е	F
1	2	3	4	5	6
$\overline{7}$	8	9	10	11	12

Table 1: This is the table caption.

1.4 Citation

This is a citation [1, 2, 3].

1.5 Algorithm

Algorithm 1 Calculate $y = x^n$ **Require:** $n > 0 \lor x \neq 0$ **Ensure:** $y = x^n$ $y \leftarrow 1$ if n < 0 then $X \leftarrow 1/x$ $N \leftarrow -n$ else $X \leftarrow x$ $N \leftarrow n$ end if while $N \neq 0$ do if N is even then $X \leftarrow X \times X$ $N \leftarrow N/2$ else $\{N \text{ is odd}\}$ $y \leftarrow y \times X$ $N \leftarrow N-1$ end if end while

References

- D. Silver, A. Huang, C. J. Maddison, A. Guez, and D. Hassabis, "Mastering the game of Go with deep neural networks and tree search," *Nature*, vol. 529, no. 7587, pp. 484–489, 2016.
- [2] V. Mnih, K. Kavukcuoglu, D. Silver, A. A. Rusu, J. Veness, M. G. Bellemare, A. Graves, M. Riedmiller, A. K. Fidjeland, and G. Ostrovski, "Human-level control through deep reinforcement learning," *Nature*, vol. 518, no. 7540, p. 529, 2015.
- [3] V. Mnih, A. P. Badia, M. Mirza, A. Graves, T. Lillicrap, T. Harley, D. Silver, and K. Kavukcuoglu, "Asynchronous methods for deep reinforcement learning," in *Proceedings of The 33rd International Conference on Machine Learning*, ser. Proceedings of Machine Learning Research, M. F. Balcan and K. Q. Weinberger, Eds., vol. 48. New York, New York, USA: PMLR, 20–22 Jun 2016, pp. 1928–1937. [Online]. Available: http://proceedings.mlr.press/v48/mniha16.html