Sample Title

Sample Subtitle

Author September 2, 2020

Simple Content

Here we have an itemize environment.

- ► First.
- Second.
- ► Third.

This is a paragraph. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren.

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Mathematical Content

An Example of Mathematical Content

$$\begin{split} p(C,\Pi,\Theta,W) &= p(\Pi\mid\alpha)p(C\mid\Pi)p(\Theta\mid\beta)p(W\mid C,\Theta) \\ &= \left(\prod_{d}^{D}p(\pi_{d}\mid\alpha_{d})\right)\left(\prod_{d}^{D}\prod_{i}^{I_{d}}p(c_{di}\mid\pi_{d})\right)\left(\prod_{d}^{D}\prod_{i}^{I_{d}}p(w_{di}\mid c_{di},\Theta)\right)\left(\prod_{k}^{K}p(\theta_{k}\mid\beta_{k})\right) \\ &= \left(\prod_{d}^{D}\mathcal{D}(\pi_{d};\alpha_{d})\right)\left(\prod_{d}^{D}\prod_{i}^{I_{d}}\left(\prod_{k}^{K}\pi_{dk}^{c_{dik}}\right)\right)\left(\prod_{d}^{D}\prod_{i}^{I_{d}}\left(\prod_{k}^{K}\theta_{kW_{di}}^{c_{dik}}\right)\right)\left(\prod_{k}^{K}\mathcal{D}(\theta_{k};\beta_{k})\right) \\ &= \left(\prod_{d}^{D}\frac{\Gamma(\sum_{k}\alpha_{dk})}{\prod_{k}\Gamma(\alpha_{dk})}\prod_{k}^{K}\pi_{dk}^{\alpha_{dk}-1+n_{dk}}\right)\left(\prod_{d}^{D}\frac{\Gamma(\sum_{v}\beta_{kv})}{\prod_{v}\Gamma(\beta_{kv})}\prod_{v}^{V}\theta_{kv}^{\alpha_{kv}-1+n_{ckv}}\right) \end{split}$$

This is the joint probability for the Latent Dirichlet Allocation. You can find more information on this topic here (where also this formula is taken from).

Mathematical Content

Theorems and Proofs

Definition (odd integer)

An integer $z \in \mathbb{Z}$ is said to be odd if it is not divisible by two, i.e. there exist no $k \in \mathbb{Z}$ s.t. z = 2k.

Theorem (Multiplication of Odd Integers Yields Even Integer)

Let $a, b \in \mathbb{Z}$ be two non-null odd integers. Then $a \cdot b$ is an even integer.

Proof.

Let $k, l \in \mathbb{Z} \setminus \{0\}, a = 2k + 1, b = 2l + 1$. Then

$$a \cdot b = (2k+1)(2l+1) = 4kl + 2k + 2l + 2 = 2(2kl + k + l + 1)$$

which is even.

Algorithmic Content

Bubble Sort

Bubble Sort is an algorithm to sort an array of real numbers.

```
Algorithm 1: BubbleSort(A)
1 n \leftarrow A.length
2 for i=1 to n do
     for i = 0 to n - i do
         if A[j+1] < A[j] then
            exchange values at positions j + 1 and j in A
        end
6
     end
8 end
9 return A
```

Blocks and Stripes

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