



All papers

Go!

Computer Science > Information Theory

The memory centre

Przemysław Spurek, Jacek Tabor

(Submitted on 1 Apr 2012)

Let $x \in \mathbb{R}$ be given. As we know the, amount of bits needed to binary code x with given accuracy ($h \in \mathbb{R}$) is approximately $m_h(x) \approx \log_2(\max\{1, \frac{x}{h}\})$. We consider the problem where we should translate the origin a so that the mean amount of bits needed to code randomly chosen element from a realization of a random variable X is minimal. In other words, we want to find $a \in \mathbb{R}$ such that $\mathbb{E}(m_h(X-a))$ attains minimum.

Subjects: **Information Theory (cs.IT)**

Cite as: **arXiv:1204.0281 [cs.IT]**

(or **arXiv:1204.0281v1 [cs.IT]** for this version)

Submission history

From: Przemysław Spurek [view email]

[v1] Sun, 1 Apr 2012 23:35:31 GMT (64kb,D)

Which authors of this paper are endorsers?

Download:

- [PDF](#)
- [Other formats](#)

Current browse context:

cs.IT

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1204](#)

Change to browse by:

[cs](#)
[math](#)

References & Citations

- [NASA ADS](#)

DBLP - CS Bibliography

[listing](#) | [bibtex](#)

[Przemyslaw Spurek](#)
[Jacek Tabor](#)

Bookmark (what is this?)

