arXiv.org > cs > arXiv:1107.4652

Search or Article-id

(Help | Advanced search)

- Go! All papers



Computer Science > Information Theory

On the Achievability of Interference Alignment for Three-**Cell Constant Cellular Interfering Networks**

Yanjun Ma, Jiandong Li, Rui Chen, Qin Liu

(Submitted on 23 Jul 2011 (v1), last revised 1 Mar 2012 (this version, v4))

For a three-cell constant cellular interfering network, a new property of alignment is identified, i.e., interference alignment (IA) solution obtained in an user-cooperation scenario can also be applied in a non-cooperation environment. By using this property, an algorithm is proposed by jointly designing transmit and receive beamforming matrices. Analysis and numerical results show that more degree of freedom (DoF) can be achieved compared with conventional schemes in most cases.

Subjects: Information Theory (cs.IT) arXiv:1107.4652 [cs.IT] Cite as:

(or arXiv:1107.4652v4 [cs.IT] for this version)

Submission history

From: Yanjun Ma [view email]

[v1] Sat, 23 Jul 2011 03:45:24 GMT (112kb,D)

[v2] Wed, 26 Oct 2011 02:34:18 GMT (77kb,D)

[v3] Wed, 29 Feb 2012 11:22:57 GMT (65kb,D)

[v4] Thu, 1 Mar 2012 08:19:07 GMT (65kb,D)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

Download:

- PDF
- Other formats

Current browse context:

cs.IT

< prev | next >

new | recent | 1107

Change to browse by:

CS math

References & Citations

NASA ADS

DBLP - CS Bibliography

listing | bibtex

Yanjun Ma Jiandong Li Rui Chen Qin Liu

Bookmark(what is this?)











