

Cornell University <u>Library</u>

Computer Science > Information Theory

(Help | Advanced search)

Go!

Search or Article-id

All papers 🖵

Download:

- PDF
- PostScript
- Other formats

Current browse context: cs.IT

< prev | next >

new | recent | 1204

Change to browse by:

cs math

Unique Decoding	of	Plane	AG
Codes Revisited			

Kwankyu Lee

(Submitted on 31 Mar 2012 (v1), last revised 6 Jun 2012 (this version, v2))

We reformulate a recently introduced interpolation-based unique decoding algorithm of algebraic geometry codes using the theory of Gr\"obner bases of modules on the coordinate ring of the base curve. With the same decoding performance, the new algorithm has a more conceptual description that lets us better understand the majority voting procedure central in the interpolation-based unique decoding.

Comments:	18 pages, submitted in a revised form to a journal different from AMC
Subjects:	Information Theory (cs.IT)
MSC classes:	Primary: 94B35, 94B27, Secondary: 13P10
Cite as.	(or or Vivut 204,0052 [CS.IT]

Submission history

From: Kwankyu Lee [view email] [v1] Sat, 31 Mar 2012 00:47:35 GMT (327kb) [v2] Wed, 6 Jun 2012 03:44:06 GMT (327kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.