Johan Sebastian Heesemann Rosenkilde - DTU Orbit (15/01/2018)

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Department of Applied Mathematics and Computer Science - Assistant Professor

Mathematics

Publications:

Fast computation of the roots of polynomials over the ring of power series
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Popov form computation for matrices of Ore polynomials
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Decoding Interleaved Gabidulin Codes using Alekhnovich's Algorithm
Publication: Research - peer-review › Journal article – Annual report year: 2017

Decoding of interleaved Reed-Solomon codes using improved power decoding
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Further Generalisations of Twisted Gabidulin Codes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Improved Power Decoding of One-Point Hermitian Codes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Row Reduction Applied to Decoding of Rank Metric and Subspace Codes
Publication: Research - peer-review › Journal article – Annual report year: 2016

Twisted Reed-Solomon Codes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Two-Point Codes for the Generalised GK curve
Publication: Research - peer-review › Journal article – Annual report year: 2017
Algorithms for Simultaneous Padé Approximations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Solving Shift Register Problems over Skew Polynomial Rings using Module Minimisation
Li, W., Nielsen, J. S. R., Puchinger, S. & Sidorenko, V. 2015
Publication: Research - peer-review › Paper – Annual report year: 2015

Sub-quadratic decoding of one-point hermitian codes
Nielsen, J. S. R. & Beelen, P. 2015 In : IEEE Transactions on Information Theory. 61, 6, p. 3225-3240
Publication: Research - peer-review › Journal article – Annual report year: 2015

Fast Kötter–Nielsen–Høholdt Interpolation in the Guruswami–Sudan Algorithm
Nielsen, J. S. R. 2014
Publication: Research - peer-review › Paper – Annual report year: 2015

Multi-Trial Guruswami–Sudan Decoding for Generalised Reed–Solomon Codes
Nielsen, J. S. R. & Zeh, A. 2014 In : Designs, Codes and Cryptography. 73, 2, p. 507-527
Publication: Research - peer-review › Journal article – Annual report year: 2015

Power Decoding of Reed–Solomon Codes Revisited
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Reduced List Decoding of Reed–Solomon Codes Using Reliability Information
Mohamed, M. H., Nielsen, J. S. R. & Bossert, M. 2014
Publication: Research - peer-review › Paper – Annual report year: 2015

Generalised Multi-sequence Shift-Register Synthesis using Module Minimisation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

List Decoding of Algebraic Codes
Publication: Research › Ph.D. thesis – Annual report year: 2013

Multi-Trial Guruswami–Sudan Decoding for Generalised Reed–Solomon Codes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

On Decoding Interleaved Chinese Remainder Codes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

On Rational Interpolation-Based List-Decoding and List-Decoding Binary Goppa Codes
Publication: Research - peer-review › Journal article – Annual report year: 2013
Projects:

Construction and decoding of algebraic codes
Rosenkilde, J. S. H., Beelen, P., Høholdt, T., Geil, H. O., Augot, D. & Bossert, M.
01/07/2010 → 30/09/2013
Project: PhD