

Coding Theory for Storage, Networks, and Security

Dec 16–21, 2018

Breakfast: 07:30–08:45 am, Monday–Friday
Lunch: 12:15, Monday–Friday
Coffee and Cake: 15:00–16:00, Sunday–Thursday
Dinner: 18:00, Sunday–Thursday

Groups

Rank Metric Codes
Private Information Retrieval
Cryptography & Codes
Storage
Other Coding

SCHEDULE

SUNDAY

15:00 Check-in begins
18:00 Dinner

MONDAY

7:30–8:45 Breakfast
9:00–9:15 Welcome & Introduction, Eimear on behalf of the organizers
9:15–12:15 50 presentations @ 3-minutes (with a break), chaired by Martin
12:15 Lunch
Chair: Eimear
13:30–14:30 Phillipe Gaborit: *Recent results for cryptography based on rank metric*
14:30–15:00 Alberto Ravagnani: *The Covering Radius of Rank-Metric Codes*
15:00–15:30 Anna-Lena Trautmann-Horlemann: *TITLE TBA (rank metric decoding problem)*
15:30–16:00 Cake Break
Chair: Eimear
16:00–16:45 Emina Soljanin: *Service Rates of Codes*
16:45–17:15 Alexey Frolov: *New Bounds and Generalizations of Locally Recoverable Codes with Availability*
17:15–17:45 Siddarth Jaggi: *General adversarial channels: When do large codes exist?*
18:00 Dinner

TUESDAY

	Chair: Oliver
09:00–09:45	Eitan Yaakobi: <i>Private Proximity Retrieval</i>
09:45–10:15	Jorg Kliever: <i>Private Function Computation for Coded Databases</i>
10:15–10:45	Break
10:45–11:30	Salim El Rouayhab: <i>TITLE TBA (secure coded computations)</i>
11:45–12:15	Daniel Augot: <i>On decoding Folded and/or Derivative Codes over any field</i>
12:15	Lunch
	Chair : Felice
13:30–14:15	Sascha Kurz : <i>(Multi-)Sets of subspaces and divisible codes</i>
14:15–14:45	Pierre Loidreau: <i>Algebraic decoding rank metric code-based cryptography</i>
14:45–15:15	Sihem Mesnager: <i>Minimal linear codes from functions over finite fields</i>
15:30–16:00	Cake Break
16:00–18:00	Working in groups
18:00	Dinner

WEDNESDAY

	Chair: Joachim
9:00–09:45	Heide Gluesing-Luerssen: <i>On Ferrers Diagram Codes</i>
09:45–10:15	John Sheekey: <i>Constructions and Classifications of MRD codes</i>
10:15–12:15	Working in groups
12:15	Lunch followed by a free afternoon
18:00	Dinner

THURSDAY

	Chair: Jens
9:00–9:30	Magreta Kuiper: <i>Resilient LTI systems with redundant signals</i>
9:30–10:00	Alessandro Neri: <i>Parametrizing Systematic Gabidulin Codes and Applications</i>
10:00–10:30	Marcus Greferath: <i>Experiments towards spectral methods in a non-commutative context</i>
10:30–12:15	Photo, Coffee, Discussions
12:15	Lunch
13:30–15:30	Working in groups
15:30–16:00	Cake Break
	Chair:
16:00–16:30	Yiwei Zhang <i>Functional PIR and batch codes</i>
16:30–17:00	Rawad Bitar: <i>Coding for Stochastic Gradient Descent</i>
17:00–17:30	Julia Lieb: <i>The problem of constructing (complete) MDP convolutional codes over small fields</i>
18:00	Dinner

FRIDAY

	Chair: Eimear
9:00 –11:30	Working in Groups, Open Problems, Group Presentations
12:00	Lunch
