

10th Winter School on Coding and Information Theory

Loen, Norway

March 29 - Apr 3, 2009

Ralf Müller & Geir Øien (NTNU, Trondheim)

QuickTime™ and a
decompressor
are needed to see this picture.



History

The Winter School on Coding and Information Theory was invented by Han Vinck and is (after some error correction) a biennial event.

- 2007 La Colle Sur Loup, France
- 2005 Bratislava, Slovakia
- 2003 Monte Verita, Switzerland
- 2000 Ulm, Germany
- 1998 Aarhus, Denmark
- 1996 Mölle, Sweden
- 1994 Eindhoven, Netherlands
- 1993 Essen, Germany
- 1991 Essen, Germany

The Team

- Organizers:
 - Ralf Müller (Trondheim)
 - Geir Øien (Trondheim)
 - & their Ph.D. students V. Gardasevic, R. de Miguel, M. Vehkaperä,
J.Torjus, M. Butt, C. Wang, N. Mahmood
 - & post-docs K. Kansanen, B. Zaidel
- Instructors:
 - Helmut Bölcskei (Zurich)
 - Rüdiger Urbanke (Lausanne)
 - Ralf Kötter (Munich)
 - Johannes Huber (Erlangen)
 - Holger Boche (Berlin)

Sponsors

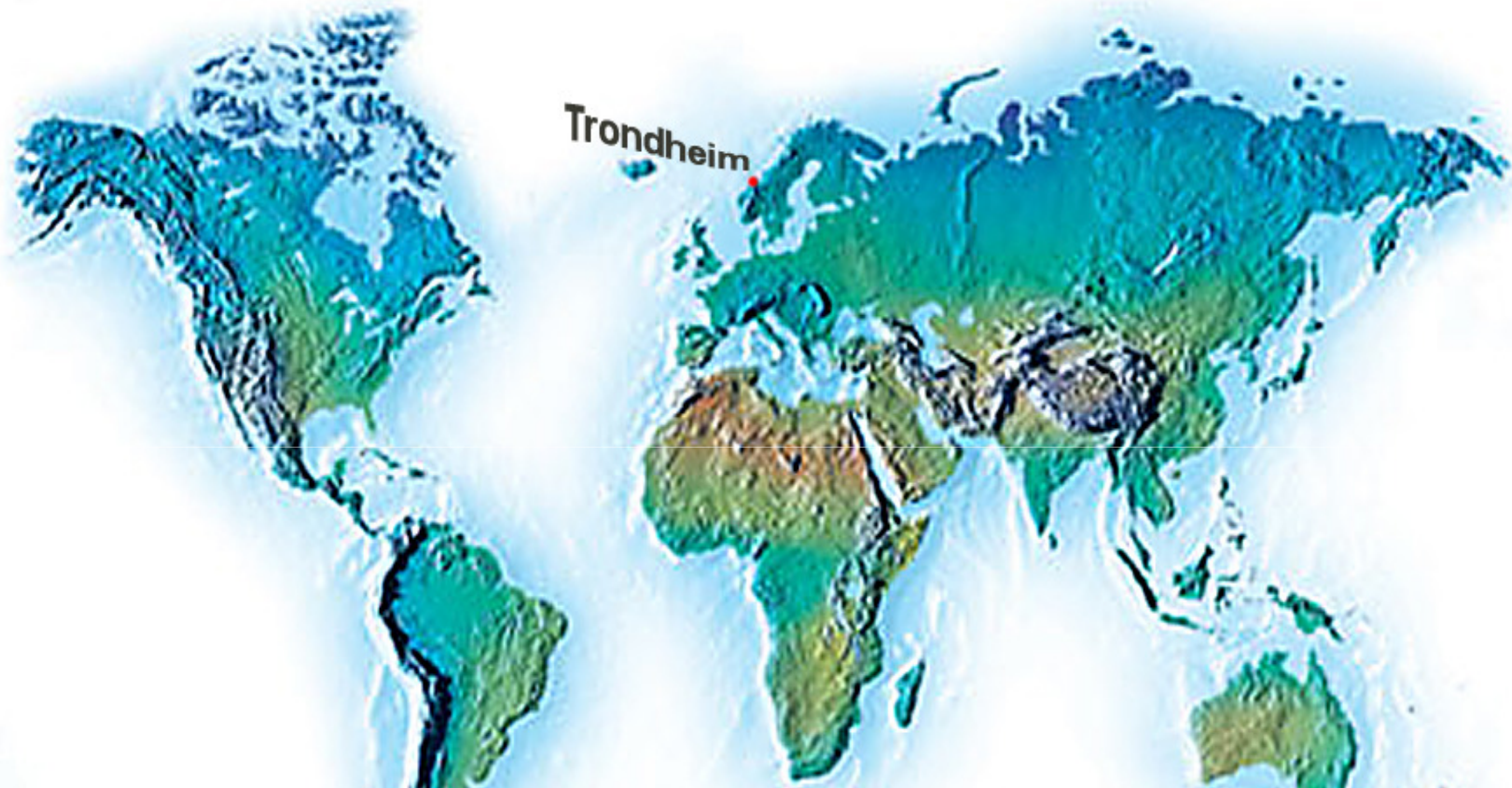
- Dept. Electronics & Telecommunications (€12k)
- The Research Council of Norway (€6k)
- IEEE Information Theory Society (€8k ?)

Budget of 2007

<i>Expenditures</i>		<i>Revenues</i>	
Accommodation & food	€26.395	Sponsors	€18.597
Banquet	€4.200		
Wireless LAN	€700		
Instructor travel	€3.130		
Proceedings & handouts	€1.400		
Others	€803	Registration	€17.483
Total	€36.628		€36.080

Planned Budget of 2009

<i>Expenditures</i>		<i>Revenues</i>	
Accommodation, food, WLAN	€53.175	Sponsors (incl. IEEE-IT)	€26.300
No banquet (saves money)	€0		
Instructor travel	€3.125		
Proc. & handouts (electronically)	€0		
Others	€1.250	Registration	€31.250
Total	€57.550		€57.550



In US geography, Trondheim lies somewhere between Anchorage and Fairbanks.

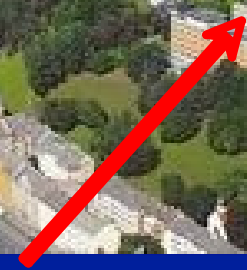
Why not in Trondheim?

Costs of accommodation and food in Trondheim are too high.

The cheapest room in Trondheim's 2-star Best Western costs \$290/day.

At a Wendy's-like restaurant, a main-dish costs about \$40/person excl. bev.

In Loen, we get full board accommodation for "only" \$195/day incl. coffe break, beverages, conference room, and free Wifi.



Program

180 minutes of lectures
every morning

180 minutes of
presentations by the
students every afternoon

The session titles are just dummy
variables, since we don't know yet
who will come.

SUN DAY	MONDAY	TUE SDAY	WED NESD AY	THU RS DA Y	FRIDAY
	7h30-8h30	7h30-8h30	7h30-8h30	7h30-8h30	7h30-8h30
	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
	9h-10h30	9h-10h30	9h-10h30	9h-10h30	9h-10h30
	Tutorial	Tutorial	Tutorial	Tutorial	Tutorial
	Sphere Decoding - Prof. Helmut Bölcskei ETH Zurich	Network Coding - Prof. Ralf Kötter TU München	Constraint Optimization in Information Theory Ć Prof. Holger Boche TU Berlin	Iterative Decoding in Graphs Ć Prof. Rüdiger Urbanke EPFL Lausanne	Information Combining - Prof. Johannes Huber University of Erlange n- Nuremb erg
	10h30-10h45	10h30-10h45	10h30-10h45	10h30-10h45	10h30-10h45
	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
	10h45-12h15	10h45-12h15	10h45-12h15	10h45-12h15	10h45-12h15
	Tutorial continuation	Tutorial continuation	Tutorial continuation	Tutorial continuation	Tutorial continuation
	12h30-14h	12h30-14h	12h30-14h	12h30-14h	12h30-14h
	Lunch	Lunch	Lunch	Lunch	Lunch
	14h-15h30	14h-15h30	14h-15h30	14h-15h30	14h-15h30
	Free Time	Free Time	Free Time	Free Time	Departure
	15h30-17h	15h30-17h	15h30-17h	15h30-17h	15h30-17h
	Session	Session	Session	Session	Session
	Working session Ć Large Systems Chair: Ralf Müller	Working session - MIMO Systems I Chair: Geir Einarsson	Working session - MIMO Systems II Chair: Nils Holte	Working session Ć Joint Source Channel Coding Chair: Tor Ramstad	
	17h-17h15	17h-17h15	17h-17h15	17h-17h15	17h-17h15
	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
	17h15-19h	17h15-19h	17h15-19h	17h15-19h	17h15-19h
	Working session Ć Iterative Decoding Chair: Pierluigi Salvo Rossi	Working session - Routing and Scheduling Chair: Kimmo Kansanen	Working session - Multiple Access Chair: Benjami n Zaidel	Working session - Resource Allocation Chair: Sebastie n de la Keth ulla	
	19h-20h	19h-20h	19h-20h	19h-20h	19h-20h
	Free time	Free time	Free time	Free time	Free time
	20h00	20h00	20h00	20h00	20h00
Dinner	Dinner	Dinner	Dinner	Dinner	Dinner

Student's Benefits

- Intensive learning experience in key areas of information theory;
- Close contact with instructors and fellow students;
- In the past, the winter school resulted in new collaborations and joint papers;
- European advisors have been willing to cover the travel and registration expenses to provide the students with this opportunity;
- Increasing number of students (60 students in the last edition);
- With affordable student registration (€375) the number is likely to reach the same levels as the North American IT Summer School.

