London Workshop on
Sparse Signal Processing

Invited speakers:

Yoram Bresler (Univ. of Illinois, Urbana-Champaign)

Yuejie Chi (Ohio State Univ.)

Yonina Eldar (Technion)

Remi Gribonval (IRISA)

Babak Hassibi (Caltech)

Yue Lu (Harvard Univ.)

Ivan Markovsky (Vrije Univ. Brussel)

Gabriel Peyre (Univ. Paris-Dauphine)

Gongguo Tang (Colorado School of Mines)

Sergios Theodoridis (Univ. of Athens)

Michael Unser (EPFL)

Patrick Wolfe (Univ. College London)

15-16 September, 2016

Venue:
Imperial College London
South Kensington
London, UK

No cost for attending.
Lunches are included.

Many thanks to
Miss Charlotte Grady
for her help

Organised by Pier-Luigi Dragotti and Wei Dai @ EEE Imperial College
Webpage: www.commsp.ee.ic.ac.uk/~icore/SparseSignalProcessingWorkshop.html

SPECIAL THANKS TO
OUR SPONSORS

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C&SP Group @ EEE Imperial

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Thursday 15 September 2016 (**Room 408** EEE Building)

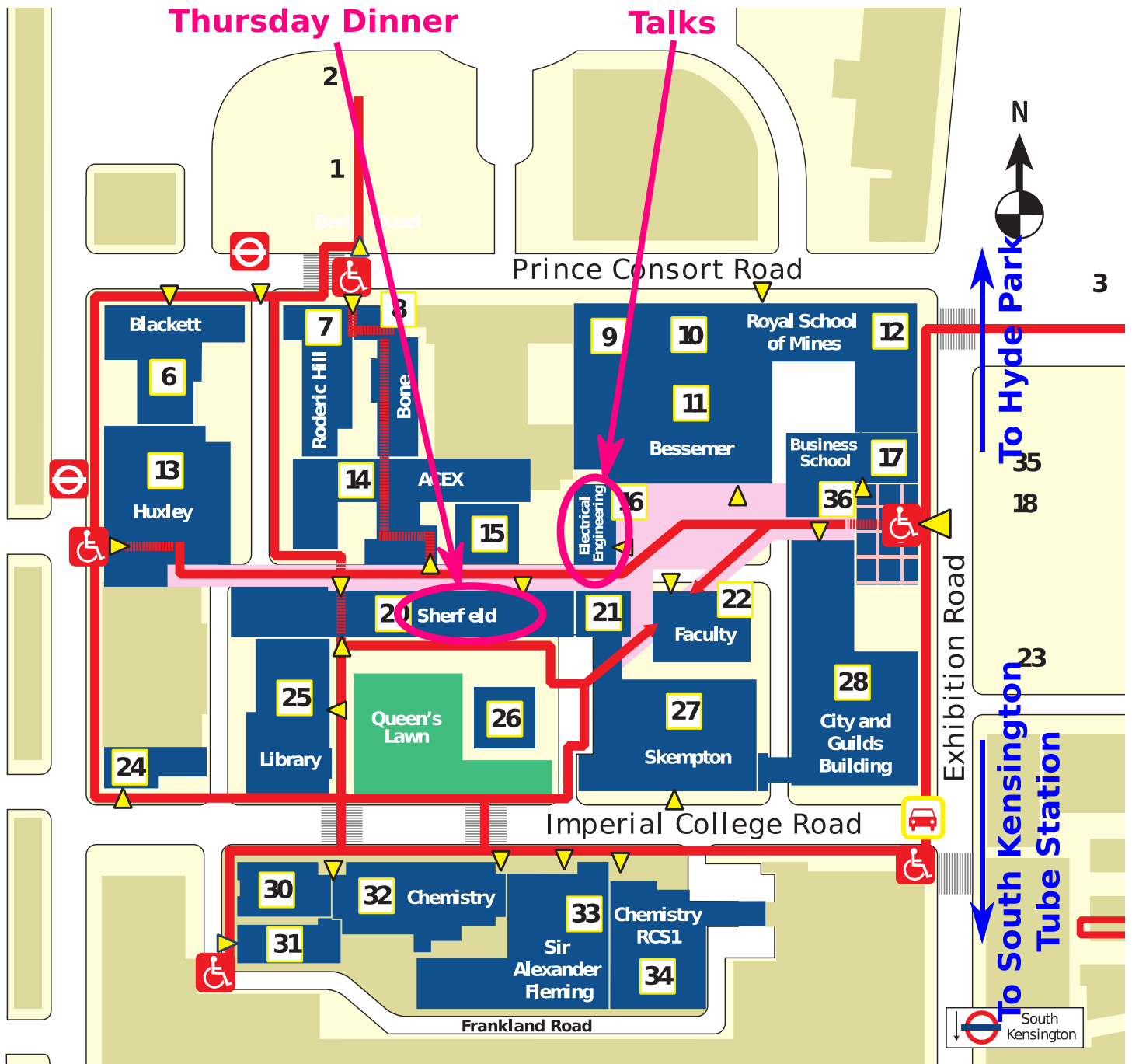|	
10:30 - 11:00	**Welcome** **Pier-Luigi Dragotti and Wei Dai (Imperial College)**
11:00 - 11:45	**Yuejie Chi (Ohio State University)** **"Solving Corrupted Quadratic Equations, Provably"**
11:45 - 12:30	**Gongguo Tang (Colorado School of Mines)** **"Optimal Spectral Estimation via Atomic Norm Minimization"**
12:30 - 14:00	**Lunch Break and Poster Session** **(Room 611, EEE Building)**
14:00 - 14:45	**Yonina Eldar (Technion)** **"SubNyquist Sampling without Sparsity and Phase Retrieval"**
14:45 - 15:30	**Gabriel Peyre (Univ. Paris-Dauphine)** **"Exact Support Recovery for Sparse Super-resolution"**
15:30 - 16:00	**Coffee Break** **(Room 611, EEE Building)**
16:00 - 16:45	**Yoram Bresler (Univ. of Illinois, Urbana-Champaign)** **"Blind Signal Processing: Sparse Signal Reconstruction in Bilinear Inverse Problems"**
16:45 - 17:30	**Ivan Markovsky (Vrije Univ. Brussel)** **"A low-rank matrix completion approach to data-driven signal processing"**
17:30 - 19:00	**Rooms available for discussions** **(Room 611, 610B, 408, EEE Building)**
19:00 - 21:30	**Dinner (by invitation only)** **Senior Common Room**

- Dinner attendees may gather on level 2 of EEE Building at 18:45 and we will walk to Senior Common Room together.

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Friday 16 September 2016 (**Room 611** EEE Building)

09:30 - 10:15	**Babak Hassibi (Caltech)** **"Gaussian Comparison Lemmas and Convex Optimization"**
10:15 - 11:00	**Remi Gribonval (IRISA)** **"Random Moments for Compressive Learning"**
11:00 - 11:30	**Coffee Break** **(Room 611, EEE Building)**
11:30 - 12:15	**Michael Unser (EPFL)** **"l1 vs. l2 representer theorems"**
12:15 - 13:00	**Yue Lu (Harvard Univ.)** **"High-Dimensional Analysis of Stochastic Algorithms for Nonconvex Optimization: Limiting Dynamics and Phase Transitions"**
13:00 - 14:00	**Lunch Break** **(Faraday Cage, Level 6, EEE Building)**
14:45 - 15:30	**Sergios Theodoridis (Univ. of Athens)** **"A Tour of Sparsity-Aware Learning Calling at: Online, Distributed, Robust and Dictionary Learning"**
14:00 - 14:45	**Patrick Wolfe (Univ. College London)** **"TBA"**
14:45	**Closing remarks**

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Thursday Dinner

Talks

Wifi:

If you have access to eduroam, you are highly recommended to use it.

Otherwise, connect to "Imperial", in your web browser click on "guest registration", enter the unique ID: **conf96685**, proceed with providing your details (name, email, etc.), and then you will get a unique guest account valid during the whole workshop.