



AMCOS

Conference and Tutorial on
Analysis and Modelling of Complex Oscillatory Systems

March 19-23, 2018
PRBB, Barcelona



Universitat
Pompeu Fabra
Barcelona



This is the short version of the booklet for print use. Full abstracts with all authors, references, and figures can be found in the electronic version at
<https://amcosconference.com/>

The open-source L^AT_EX template, AMCOS_booklet, used to generate this booklet is available at https://github.com/maximelucas/AMCOS_booklet

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About

This is a generic version of the real AMCOS conference booklet for which this L^AT_EX template was generated. All information about the use and distribution of this template, and all related codes, can be found at https://github.com/maximelucas/AMCOS_booklet.

Gadgetron summer school 2020

Gadgetron is an open-source magnetic resonance image reconstruction framework that can be interfaced with major MRI manufacturers, and that provides state-of-the-art image processing tools and algorithms. “Gadgetron” is a key tool for prototyping advanced reconstruction methods as well as for conducting large-scale clinical studies for magnetic resonance imaging.

This summer school is open to international students, engineers, and researchers wishing to understand the basics of the Gadgetron framework and the latest Gadgetron functionalities. It consists of tutorial lectures, coding and MRI scanner sessions.

Organizing committee

Hui Xue	David Hansen	Kristoffer Knudsen
Vinai Roopchansinghv	John Derbyshire	Oliver Josephs
Stanislas Rapacchi	Aurélien Trottier	Maxime Yon
Pierre Bour	Valéry Ozenne	

Timetable

C: Course, P: Practical session, S: Scanner Session, D: Discussion.

Wednesday, 17 of June

8:30–8:45	Registration		
8:45–9:00	Welcome remarks		
9:00–9:45	Course	David Hansen	C1: Gadgetron, a high level overview introduction
9:45–10:30	Course	Kristoffer Knudsen	C2: Gadgetron, a low level overview introduction
10:30–11:00	Coffee		
11:00–11:45	Practice	Stanislas Rapacchi Aurélien Trottier	P1: Basic reconstruction using python
11:45–12:30	Practice	Valery Ozenne	P2: Basic reconstruction using python
12:30–13:30	Lunch		
13:30–14:30	Scan	Hui Xue	S1: Communication process with the Siemens scanner
14:30–15:30	Practice	Vinai Roopchansinghv John Derbyshire	P3: Basic reconstruction using matlab
15:30–15:60	Coffee		
16:00–17:00	Scan	Oliver Josephs	S2: Prototyping at the scanner with Matlab
17:00–18:00	Practice	Maxime Yon - Kristoffer Knudsen	P4: Ismrmrd Part 1: Introduction
	End of day 1		

Thursday, 18 of June

9:00–9:45	Course	David Hansen	C3: High level infrastructure on Gadgetron 4.1
9:45:–10:30	Course	Hui Xue	C4: Generic Chain
10:30–11:00	Coffee		
11:00–11:45	Course	David Hansen	C5 : Source tree: mri core/toolboxes
11:45–12:30	Practice	Hui Xue	P5 calling toolboxes in C++
12:30–13:30	Lunch		
13:30–14:30	Scan	Valery Ozenne	S3: Distributed reco
14:30–15:30	Practice	Vinai Roopchansinghv John Derbyshire	P6: Ismrmrd Part 2: xml style sheet : Siemens/GE/Bruker conversion
15:30–15:60	Coffee		
16:00-17:00	Scan	Pierre Bour	S4: GPU reconstruction
17:00-18:00	Practice	Kristoffer	P7: Advances features: parallel stream & distributed reco
	End of day 2		

Friday, 19 of June

9:30 – 10:30	Course	Kristoffer Knudsen	How to improve your code
10:30–11:00		Coffee	
11:00–11:45	Course	All speakers	how to start and use gt (the dirty way)
11:45–12:30	Discuss	Everybody	Gadgetron: yesterday, today, tomorrow
12:30–13:30		Lunch	
13:30–14:30	Practice	Everybody	Bring your twix data, open session on mri reco and gadgetron
14:30–15:30	Practice	Everybody	Bring your twix data, open session on mri reco and gadgetron
15:30–15h45		Conclusion	
		End of day 3	

List of Abstracts – Talks

Tuesday 20th

Title of a keynote lecture

L. Tremblay, McGill University, Montreal, Canada

KL

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Title of contributed talk

M. Fournier, Université Libre de Bruxelles, Brussels, Belgium

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Title of invited speaker

H. Sato, Tokyo Institute of Technology, Tokyo, Japan

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Title of contributed talk with math and paragraphs

M. Smith, Université Libre de Bruxelles, Brussels, Belgium

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Title of contributed talk with math and references

M. Rodriguez, UPF, Barcelona, Spain

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Title of contributed talk and references and a figure

M. Jansen, Vrije Universiteit Amsterdam, Amsterdam, The Netherlands

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Thursday 22nd

A Special Talk about Diversity in Science

F. Schmidt, Technical University of Munich, Munich, Germany

IT

One of the most consistent global trends in science over the last decades concerns the move from individual efforts of scientists to collaborative projects among several researchers. Across most scientific disciplines the solitary researcher has been replaced by collective efforts between individuals often distributed across organizations and countries. Accompanying this trend are efforts to understand the “ingredients” of excellent research teams. Social sciences, but also social psychology as well as social networks analysis have all contributed to the understanding of successful collaborations. This contribution will review the elements of excellent teams as well as highlighting how bias and stereotypes can undermine optimal group performance. The presentation will be rounded up by examples how diversity not only affects research collaboration but also improves the quality of the produced science and engineering knowledge.

List of Posters

Tuesday Session

A random abstract title

J. Doe, *Bournemouth University, UK*

A random abstract title

J. Doe, *Bournemouth University, UK*

A random abstract title

J. Doe, *Bournemouth University, UK*

A random abstract title

J. Doe, *Bournemouth University, UK*

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J. Doe, *Bournemouth University, UK*

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J. Doe, *Bournemouth University, UK*

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J. Doe, *Bournemouth University, UK*

A random abstract title

J. Doe, *Bournemouth University, UK*

A random abstract title

J. Doe, *Bournemouth University, UK*

A random abstract title

J. Doe, *Bournemouth University, UK*

List of Participants

John1 Doe1	Paris, France
John2 Doe2	Paris, France
John3 Doe3	Paris, France
John4 Doe4	Paris, France
John5 Doe5	Paris, France
John6 Doe6	Paris, France
John7 Doe7	Paris, France
John8 Doe8	Paris, France
John9 Doe9	Paris, France
John10 Doe10	Paris, France
John11 Doe11	Paris, France
John12 Doe12	Paris, France
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John23 Doe23	Paris, France
John24 Doe24	Paris, France
John25 Doe25	Paris, France
John26 Doe26	Paris, France
John27 Doe27	Paris, France
John28 Doe28	Paris, France
John29 Doe29	Paris, France

Useful Information

Partner Institutions and Sponsors

The AMCOS conference is part of the COSMOS project, funded by the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 642563.

Sponsors



