

COSMOS: Workshop 2



The COSMOS Workshop 2 was held at the Lloyd Hotel & Cultural Embassy, Amsterdam, The Netherlands. The Mid-Term Review of the COSMOS project was also held during the Workshop. The dates of the event were:

Mid-Term Review and preparations:	11 th - 13 th December 2016 (Sunday - Tuesday)
Workshop:	14 th - 15 th December 2016 (Wednesday - Thursday)
COSMOS mini-conference:	16 th December 2016 (Friday)

The concept of the workshop was to foster discussion about current topics in the analysis of complex, oscillatory dynamics and their application. The ESRs and PIs split into four work groups, with the aim of developing ideas for future collaborations and research directions. The subjects of the work groups were:

1. Identification of dynamics (e.g., via Kramers-Moyal expansion)
2. Identification of coupling and connectivity (directed or un-directed, causal, correlative, etc.)
3. Signal analysis (application to EEG, ECG, identification of periodicity, etc.)
4. Effects of noise and (non-)stationarity

The final day of the workshop was a conference format with presentations on the findings of the work groups plus talks from two invited speakers: Sjoerd Verduyn Lunel (Utrecht) and Mario Chavez (Paris). Each ESR presented part of the findings of their work groups to other members of the consortium and to members of the public. 19 non-COSMOS individuals were in attendance, the majority of whom work or study at the Vrije Universiteit or Vrije Universiteit medical centre.

As part of this deliverable, we submit:

- Workshop schedule
- Announcement for the COSMOS mini-conference

COSMOS workshop, Lloyd Hotel Amsterdam, December 11-16, 2016

Venue

- Lloyd Hotel Amsterdam: Salon, 3× Torenkamers, Vleugel- en Muziekkamer
Oostelijke Handelskade 34, Amsterdam, www.lloydhotel.com

	Salon	Toren 210	Vleugel 221	Muziek 222	Toren 510	Toren 410
Day 1 (Sun)	9:15	General opening				
	9:30	Arkady Pikovsky – Towards the mid-term presentation				
	10:30	Plenary rehearsal of presentations (ESR 1-7)		prep. mid-term review meeting		groups 1-5
	11:30	Plenary rehearsal of presentations (ESR 8-15)		prep. mid-term review meeting		groups 1-5
	12:30	Lunch break				
	13:30			prep. mid-term review meeting		groups 1-5
	17:00	Free time				
Day 2 (Mon)	9:30			prep. mid-term review meeting		groups 1-5 (optional)
	12:30	Lunch break				
	13:30			prep. mid-term review meeting		groups 1-5 (optional)
	17:00	Free time				
Day 3 (Tue) Mid-term review meeting	9.00	<i>Arrivals and refreshments</i>				
	9.30	Introduction and welcome by coordinator and EC/REA team (PO + expert)				
	9.40	Presentations from each partner university (5 min each)				
	10.20	Presentation by coordinator on network objectives and progress				
	11.10	<i>Break</i>				
	11.30	Presentations by fellows – ESRs 1-6 (10 minutes each)				
	12.30	<i>Lunch break</i>				
	13.40	Presentations by fellows – ESRs 7-15 (10 minutes each)				
	15.10	<i>Break</i>				
	15.30	Meeting between fellows and REA representative; meeting for all other attendees to discuss outstanding issues (including finance); unanswered questions arising from this meeting to be fed back to the project officer during the open discussion session				
	16.30	Conclusions / Open discussion				
17.00	<i>Free time</i>					
18.30	<i>Dinner in Restaurant Gare de L'est, Cruquiusweg 9, garedelest.nl</i>					
Day 4 (Wed)	9:30	group 1	group 2	group 3	group 4	group 5
	12:30	<i>Lunch break</i>				
	13:30	group 1	group 2	group 3	group 4	group 5
	17:00	<i>Free time</i>				
	Day 5 (Thu)	9:30	group 1	group 2	group 3	group 4
12:30		<i>Lunch break</i>				
13:30		group 1	group 2	group 3	group 4	group 5
17:00		<i>Free time</i>				
20:00		<i>Pre-Xmas gathering (location tba)</i>				

Venue

- *UvA Special Collections: Nina van Leerzaal
Oude Turfmarkt 129, Amsterdam, bijzonderecollecties.uva.nl/en

	Nina van Leerzaal*	
Day 6 (Fri)	9:30	Opening
		Guest speakers
	9:45	Sjoerd Verduyn Lunel <i>Squeezing classification of time series out of their dynamics</i>
	11:00	Mario Chavez <i>A not complicated tour of complex brain networks</i>
		<i>Lunch break</i>
		Workshop presentations / topics
	13:00	1. Identification of dynamics
	13:45	2. Identification of coupling and connectivity
	14:30	3. Signal analysis (application to EEG, ECG, identification of periodicity, etc.)
	15:15	4. Effects of noise and (non-)stationarity
16:00	Closure	

Complex Oscillatory Systems: Modeling and Analysis

On **Friday, December 16, 2016** the [EU-COSMOS innovative training network](#) (ITN) meets at the **UvA Special Collections, Nina van Leerzaal** (Oude Turfmarkt 129, [bijzondercollecties.uva.nl](#)).

The ITN is concerned with the analysis of complex oscillatory networks, from both mathematical and applied perspectives. The latter includes the analysis of brain, muscle, and heart activity (e.g., M/EEG, EMG, and ECG), respiration, and other physiological processes.

The program will kick-off with two overview presentations that seek to bridge the gap between experimental approaches and mathematical modeling. The afternoon session summarizes the results of a preceding workshop, and is intended to foster discussion about current topics in the analysis of complex, oscillatory dynamics and their application.

Program

9:30	<i>Opening</i>	
	Guest speakers	
9:45	Sjoerd Verduyn Lunel	Squeezing classification of time series out of their dynamics
11:00	Mario Chavez	A not complicated tour of complex brain networks
	<i>Lunch break</i>	
	Workshop presentations / topics	
13:00	1. Identification of dynamics	
13:45	2. Identification of coupling and connectivity	
14:30	3. Signal analysis (application to EEG, ECG, identification of periodicity, etc.)	
15:15	4. Effects of noise and (non-)stationarity	
16:00	<i>Closure</i>	

Participation is free but places are limited and will be allocated on a first come, first served basis. For registration, please send a mail to Dr. Sjoukje Colenbrander

We are looking forward to welcoming you on Friday, December 16.

Bob van Dijk
Andreas Daffertshofer

apologies for cross-postings...