

Myocardial Velocity and Deformation Imaging

Leuven, February 9th-10th, 2017

Lecture Hall of the Thermotechnical Institute, Kasteelpark Arenberg 41, 3001 Heverlee

Program

(last update 31/1/2017)

Day 1, Thursday, February 9th

8:15 - 8:30	Welcome	J.-U. Voigt
Fast imaging - Concepts and Applications		B. Bijnens / J.-U. Voigt
8:30 - 8:48	Fast cardiac imaging - Newest technological developments	P. Santos
8:48 - 9:06	Passive myocardial mechanical wave measurement using high frame rate imaging	S. Salles
9:06 - 9:24	Non-invasive assessment of myocardial stiffness: aging and HCM	M. Correira
9:24 - 9:42	Cardiac vector flow imaging	S. Fadnes, M. Wigen
9:42 - 10:00	Myocardial perfusion assessment without contrast	M. Correira
10:00 - 10:30	Coffee Break	
Big Data		P. Sengupta / J. D'hooge
10:30 - 10:50	Machine learning - Basics and its application in echocardiography	N. Duchateau
10:50 - 11:10	Machine learning - Assessment of Myocardial Function	P. Sengupta
11:10 - 11:30	Imputation of strain data for dealing with missing data	M. Tabassian
11:30 - 11:50	Spatiotemporal myocardial mechanics and its relation to antropomorphic confounders	H. Khamis
11:50 - 12:10	Spatiotemporal characteristic of strain at rest and during exercise in HFPEF	A. Fraser
12:10 - 13:30	Walking Lunch	
Valve Disease and LV Mechanics		M. Friedberg / P. Bertrand
13:30 - 13:50	Low flow aortic valve stenosis and assessment of myocardial function in AoS.	E. Galli
13:50 - 14:10	Strain imaging and aortic stenosis.	L.G. Klabo
14:10 - 14:30	Tricuspid valve function in pressure loaded RV	F. Helsen
14:30 - 15:50	Papillary Muscle Function	J. Duchenne
Atrial Function		T. Gillebert / A. Fraser
14:50 - 15:10	Left atrial function by velocity- and strain imaging.	O. Smiseth
15:10 - 15:30	Atriopathy of AF	T. Marwick
15:30 - 16:00	Coffee Break	
MRI for Function and Flow		P. Claus / Rademakers
16:00 - 16:20	Minimization of measurement errors using MR Feature Tracking	E. Nagel
16:20 - 16:40	Myocardial scar imaging using MRI strain measurements	F. Maffesanti
16:40 - 17:00	Insights to ventricular mechanics with CMR 4D flow	M. Carlsson
Cardiomyopathy		L. Herbots / E. Pagkourlias
17:00 - 17:20	Cardiac mechanics in cardiomyopathies in isolated populations.	B. Bijnens
17:20 - 17:40	Strain in a large post-infarction cohort	T. Baron
17:40 - 18:00	Cardiotoxicity and HFpEF	T. Marwick
19:30	Dinner at the Faculty Club, Leuven	

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Day 2, Friday, February 10th

Imaging for personalized medicine

T. Marwick / A. Fraser

- 8:30 - 8:50 Cardiac phenotyping for precision medicine in heart failure
8:50 - 9:10 Screening for cardiovascular diseases: The role of imaging in mHealth technologies.

T. Gillebert
P. Sengupta

RV afterload and inter-ventricular interdependence

P. Sengupta / P. Claus

- 9:10 - 9:30 RV diastolic function and afterload
9:30 - 9:50 RV afterload and ventricular interdependence
9:50 - 10:10 RV dysfunction, mechanical dyssynchrony and CRT response

C. Pérez del Villar
M. Friedberg
J. Walmsley

10:10 - 11:00 **Coffee Break**

LV Function Assessment

J. Lumens / T. Kuznetsova

- 11:00 - 11:20 The relations between left ventricular geometry, strains, region of interest, and ejection fraction
11:20 - 11:40 Strain components vs. EF in myocardial disease
11:40 - 12:00 Layered strain - inter-vendor comparison and image geometry dependence
12:00 - 12:20 Adding speckle tracking improves scar detection

E. Remme
E. Pagkourelis
S. Ünlü
B. Bekkers

12:20 - 13:30 **Walking Lunch**

Dyssynchrony

F. Prinzen / R. Willems

- 13:30 - 13:50 New specific dyssynchrony indicators and optimal dyssynchrony assessment
13:50 - 14:10 LV reverse remodelling as surrogate for CRT success?
14:10 - 14:30 Can we predict improvement of secondary MR after CRT?

T. Zaremba
J.-U. Voigt
B. Michalski

14:30 - 15:00 **Coffee Break**

Exercise

A. Fraser / M. Friedberg

- 15:00 - 15:20 Exercise (hemo-)dynamics in secondary mitral regurgitation before and after intervention
15:20 - 15:40 The vicious cycle of RV dysfunction during extreme exercise.
15:40 - 16:00 Exercise-induced segmental diastolic dyssynchrony in HFpEF

P. Bertrand
J. Lumens
I. Sunderji

16:00 **Adjourn**

J.-U. Voigt

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Faculty

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Bekkers, Bas Maastricht, NL
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Carlsson, Marcus Lund, SE
Claus, Piet Leuven, BE
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D'hooge, Jan Leuven, BE
Duchateau, Nicolas Lyon, FR
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Fadnes, Solveig Trondheim, NO
Fraser, Alan Cardiff, UK
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Galli, Elena Rennes, FR
Gillebert, Thierry Gent, BE
Helsen, Frederik Leuven, BE
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Smiseth, Otto Oslo, NO
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Wigen, Morten Trondheim, NO
Willems, Rik Leuven, BE
Zaremba, Tomas Aalborg, DK

Represented Companies

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Myocardial Velocity and Deformation Imaging 2018
February 8th - 9th

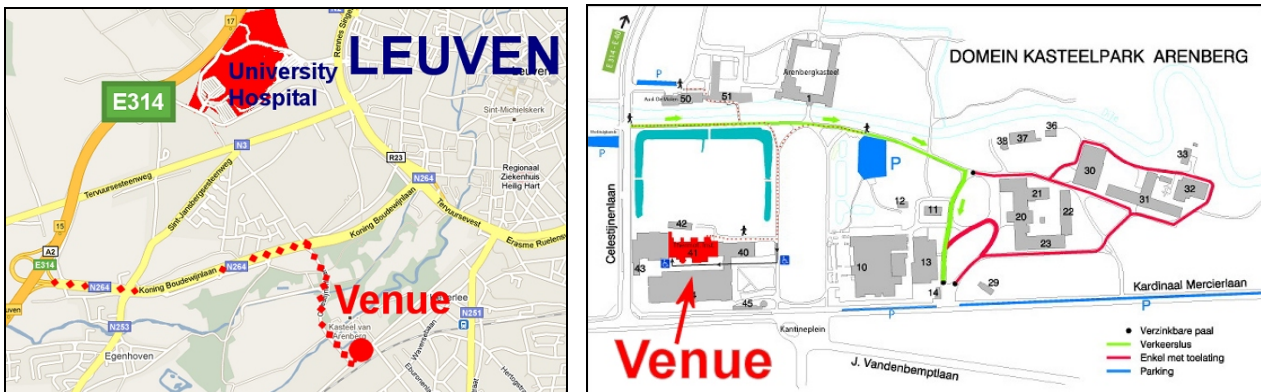
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Venue

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You can reach the venue by bus or taxi:



For further information and registration, please visit our website

<http://www.cardim.be>

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