

	Fri Jul-16	Mon Jul-19	Tue Jul-20	Wed Jul-21	Thu Jul-22	Fri Jul-23
9:00-9:30	OPENING	OPENING	OPENING	OPENING	OPENING	OPENING
9:30-10:15	Neurological development of the fetus and its control over heart function	Principles of heart rate variability	Principles of fetal electrocardiography (Rik Vullings)	Non-invasive fetal ECG source separation methods (Joachim Behar)	Nonlinear-type time-frequency analysis and its application to fetal ECG (Hau-Tieng Wu)	Tech products showcase
10:15-11.00	Fetal growth monitoring and issues (Silvia Visentin)					
11:00-11:15	Break	Break	Break	Break	Break	Break
11:15-12:00	2020 Guidelines on Neonatal Resuscitation: evidence and gaps of knowledge (Daniele Trevisanuto)	Doppler based models for estimating fetal myocardial performances (Ahsan Khandoker)	Principles of fetal electrocardiography (Rik Vullings)	Nonlinear-type time-frequency analysis and its application to fetal ECG (Hau-Tieng Wu)	Gaussian Processes (Petar M. Djuric)	Deep learning LAB (Petar M. Djuric)
12:00-12:45	Medico-legal aspects of perinatal asphyxia: a conundrum waiting for clinical and technical solutions (Ernesto D'Aloja)					
12:45-13:00	Q&A	Q&A	Q&A	Q&A	Q&A	Q&A
13:00-14:30	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
14:30-16:00	Fetal cardiac electrophysiology and pathology (Tammo Delhaas)	CTG feature detection and fetal state estimation using signal processing and machine learning (Philip Warrick)	Kalman filters basics (Reza Sameni)	Kalman filters LAB (Reza Sameni)	Deep learning	Poster session
16:00-16:15	Break	Break	Break	Break	Break	Closing remarks & awards
16:15-17:45	200 years of solicitude: Past successes and the future potential for fetal monitoring (Gari Clifford)	Advantages and limitations of non-linear HRV indexes (Roberto Sassi)	Kalman filters for fetal ECG processing (Reza Sameni)	Virtual lab tour	Poster session	