Sunday 19th of June
16.00 - 18.00 Registration and Poster set-up
18.00 Welcome reception in the exhibition area at Clarion Hotel & Congress Malmö Live

Monday 20th of June
07.30-08.15 Siemens Breakfast Symposium
Dose and quality control in Breast Tomosynthesis - Get your early morning dose of quality!
Dr. Thomas Mertelmeier, Erlangen/Germany
Welcome and Introduction
Prof. Dr. Hilde Bomsans, Leuven/Belgium
Breast Tomosynthesis quality control - Are we on the right track?
Prof. Dr. Ioannis Sechopoulos, Nijmegen/Netherlands
Dose in Breast Tomosynthesis - Where are we and what will be accepted?

Session 1. Screening
Chairs: Ioannis Sechopoulos and Kristina Lång
08.30-08.45 Opening
08.45-09.15 Invited speaker: Sophia Zackrisson, Associate Professor, Lund University - Breast cancer screening with tomosynthesis. Results and conclusions from the Malmö Breast Tomosynthesis Screening Study
09.15-09.30 Robert Nishikawa, Christopher Comstock, Michael Unver, Gillian Newstead, Vinay Sandhir, Robert Schmidt - Agreement between radiologists' interpretation of screening mammograms
09.30-09.45 Aili Maki, James Mainprize, Gord Mawdsley, Martin Yaffe - Quality Control of Breast Tomosynthesis for a Screening Trial: Preliminary Experience
09.45-10.00 Emily Conant, Andrew Oustimov, Samantha Zuckerman, Elizabeth McDonald, Susan Weinstein, Andrew Maidment, Bruno Barufaldi, Mitchell Schnall - Summary of Outcomes from Consecutive years of Tomosynthesis Screening at an American Academic Institution
10.00-10.30 Coffee & tea

Session 2. CAD
Chairs: Reyner Zwiggelaar and Daniel Förnvik
10.30-11.00 Invited speaker: Nico Karssemeijer, Professor, Radboud University Medical Centre - Texture analysis and CAD of breast images
11.00-11.15 Alessandro Bria, Claudio Marrocco, Nico Karssemeijer, Mario Molinara, Francesco Tortorella - Deep Cascade Classifiers to Detect Clusters of Microcalcifications
11.30-11.45 Chisako Muramatsu, Tetsuya Takahashi, Takako Morita, Tokiko Endo, Hiroshi Fujita - Similar Image Retrieval of Breast Masses on Ultrasongraphy Using Subjective Data and Multidimensional Scaling
11.45-12.00 Thijis Kooi, Albert Gubern-Mérida, Jan-Juree Mordang, Ritse Mann, Ruud Pijnappel, Klaas Schuur, Gerard Den Hoogen, Nico Karssemeijer - A Comparison Between a Deep Convolutional Neural Network and Radiologists for Classifying Regions of Interest in Mammography

Tuesday 21st of June
07.30-08.15 Sectra Morning Symposium
The evolution of Breast Imaging PACS - Breast density, business analytics and dose monitoring
Anders Granlund, Product Manager, Breast Imaging IT, Sectra
Jan Judd, Product Manager, Dose Monitoring, Sectra

Session 4. Density Assessment and Tissue Analysis
Chairs: Sue Astley and Nico Karssemeijer
08.30-09.00 Invited speaker: Per Hall, Professor, Karolinska Institutet - Individualized breast cancer screening - is it feasible? Experiences from the KARMA study
09.00-09.15 Abigail Humphrey, Elaine Harkness, Emmanuel Moschidis, Emma Hurley, Philip Foden, Megan Bydder, Mary Wilson, Soujanya Gadde, Anthony Maxwell, Yi Lin, Ursula Beatles, Tony Howell, Gareth Evans, Susan Astley - Mammographic density over time in women with and without breast cancer
09.15-09.30 Michiel Kallenberg, Mads Nielsen, Katharina Holland, Nico Karssemeijer, Christian Igel, Martin Lillholm - Learning density independent texture features
09.30-09.45 Zoey Ang, Rob Heard, Mohammad Rawashdeh, Patrick Brennan, Warwick Lee, Sarah Lewis - Breast asymmetry, distortion and density are key factors for false positive decisions
09.45-10.00  Ali Avanaki, Kathryn Espig, Albert Xthona, Tom Kimpe - Estimation of perceived background tissue complexity in mammograms

10.00-10.30  Coffee & tea

Session 5. Dose and Classification
Chairs: Hiroshi Fujita and Anders Tingberg

10.30-10.45  Jennifer Oduko, Kenneth Young - Patient dose survey of mammography systems in the UK in 2013-2015

10.45-11.00  Jason Too, Roger Fulton, Mary Rickard, Patrick Brennan, Donald McLean - A pilot study on radiation dose from combined mammography screening in Australia

11.00-11.15  Lucas Borges, Igor Guerrero, Predrag Bakic, Andrew Maidment, Homero Schiabel, Marcelo Vieira - Simulation of Dose Reduction in Digital Breast Tomosynthesis

11.15-11.30  Harry Strange, Reyer Zwiggelaar - Non-Expert Classification of Microcalcification Clusters using Mereotopological Barcodes

11.30-11.45  Wenda He, Sam Harvey, Arne Juette, Erika Denton, Reyer Zwiggelaar - Mammographic Segmentation And Density Classification: A Fractal Inspired Approach

11.45-12.00  Thomy Mertzanidou, John Hipwell, Sara Reis, Babak Ehteshami Bejnordi, Meyke Hermens, Mehmet Dalmia, Suzan Vreeman, Bram Platel, Jeroen van der Laak, Niek Karssemeijer, Ritse Mann, Peter Bult - Whole mastectomy volume reconstruction from 2D radiographs and its mapping to histology

12.00-13.30  Lunch

13.30-15.00  Poster session 2: Image processing, CAD, breast density and new technology

15.00-15.30  Coffee & tea

Session 6. Contrast - Enhanced Imaging
Chairs: Hilde Bomsans and Ulrich Bick

15.30-16.00  Invited speaker: Eva-Maria Fallenberg, MD, PhD, Charité Universitätsmedizin Berlin - Spectral Mammography

16.00-16.15  Martin Tomai, Jaimil Shah, Steve Mann, Randolph McKinley - Development of Fully-3D CT in a Hybrid SPECT-CT Breast Imaging System


16.30-16.45  Maria-Julieta Mateos, Alfonso Gastelmestru Strozzi, Jorge Alberto Marquez Flores, Maria-Ester Brandon - Texture analysis of contrast-enhanced digital mammography (CEDM) images


17.00-17.15  Klaus Erhard, Udo van Stevenaal - A simulation study on spectral lesion characterization

Wednesday 22nd of June

Session 7. Phase Contrast Breast Imaging
Chairs: Martin Tornal and Pontus Timberg

08.30-09.00  Invited speaker: Marco Stampanoni, Professor, ETH Zürich - X-ray phase contrast mammography

09.00-09.15  Kristina Bilzmakova, Giovanni Mettivier, Paolo Russo, Ivan Buliev - Contrast detail phantoms for X-ray phase-contrast mammography and tomography

09.15-09.30  Roberta Castriconi, Giovanni Mettivier, Paolo Russo - Image quality and radiation dose in propagation based phase contrast mammography with a microfocus X-ray tube: a phantom study


09.45-10.00  Sheila Sajeev, Mariusz Bajger, Gobert Lee - Improving Breast Mass Segmentation in Local Dense Background: an Entropy based Optimization of Statistical Region Merging Method

10.00-10.30  Coffee & tea

Session 8. Simulations and Virtual Clinical Trials
Chairs: Predrag Bakic and Magnus Dustler

10.30-10.45  Melissa Hill, James Mainprize, Martin Yaffe - System Calibration for Quantitative Contrast-Enhanced Digital Breast Tomosynthesis (CEDBT)

10.45-11.00  Lynda Ikejimba, Christian Graff, Stephen Glick - Rapid generation of structured physical phantoms for mammography and digital breast tomosynthesis

11.00-11.15  Zhijin Li, Agnès Desolneux, Serge Muller, Ann-Katherine Carton - A novel 3D stochastic solid breast texture model for X-ray breast imaging

11.15-11.30  Premkumar Elangovan, Andria Hadjipanteli, Alistair Mackenzie, David Dance, Kenneth Young, Kevin Wells - OPTIMAN Image Simulation Toolbox - Recent Developments and Ongoing Studies

11.30-11.45  Alaleh Rashidnasab, Frederic Bemelmans, Nicholas Marshall, Tom Kimpe, Hilde Bomsans - Impact of clinical display device on detectability of breast masses in 2D digital mammography: a virtual clinical study

11.45-12.00  Closing remarks