

Horizon 2020 European Union funding for Research & Innovatior

Three dimensional breast cancer models for X-ray imaging research



MaXIMA

3rd Workshop on Applications of computational models for advancement of breast X-ray imaging techniques

17-19 September 2018, Napoli, Italy



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Katholieke University of Leuven Belgium



University of Naples – Federico II Italy



February 2016, Varna





The 1st training school ...



May-June 2016, Varna







Special Session on eHealth ...









\uparrow The 2nd GAM ...

June 2016, Malmo











Tirst review in Brusse

















MAXIMA Details

- HORIZON 2020
- Spreading excellence and widening participation
- CALL: TWINNING: Call identifier: H2020-TWINN-2015 Publication date: 02-07-2014
- Total available budget : 66.240.000 EUR

- Number of proposals submitted (including proposals transferred from or to other calls and excluding abusive proposals) : **552**
- Number of ineligible proposals : 6
- Number of above-threshold proposals : 321
- Total budget requested for above-threshold proposals : 323.064.973 EUR

- Score: 14 out of 15
 - Excellence
 - Impact
 - Implementation

- 5 out 5 4.5 out of 5
- 4.5 out of 5

Aim

To advance in the research aims of the biomedical engineering unit at Technical University of Varna and therefore to raise the profile of their researchers and S&T capacity of the host organisation, collaborations with top research institutions from complementary areas of expertise are a requirement.

In addition, the touch with world experts in this area is needed in order to have local researchers at host informed about the most current findings in the field and to discuss specific scientific issues that otherwise will not have such a chance.

The field

• The **main objective** of the project is to increase the research and innovation capacity of the host organisation in the field of computational modelling of breast tumours and their use in studies of advanced x-ray breast imaging techniques such as breast tomosynthesis and phase contrast imaging.

Impact on the host University

• Increased University ranks

Could we change this?

KU Leuven is the top University in Belgium, ranked 12th in Europe and 73th in the world.

University of Naples - Federico II is 128th in Europe and 334th in the world rank list.

<u>Technical University of Varna</u> is 3290th in Europe and 7174th in the world. (<u>http://www.webometrics.info/</u>) In the proposal





Advanced 3D models improve breast cancer detection



An EU-funded project is developing advanced three-dimensional computational and physical models of breast tumours, providing the medical community with powerful new instruments to tackle breast cancer. The initiative will reveal the possibilities for improved diagnostic techniques for detecting a disease that affects one in eight women in Europe at some point in their lives.

Published: 2 May 2018



Organized by University of Naples "Federico II" Dept. Physics "Ettore Pancini" - Prof. G. Mettivier Prof. P. Russo

List of Lecturers (Confirmed)

- Prof. J. M. Boone, UC Davis, USA
- Prof. W. A. Kalender, Friedrich-Alexander Univ., Germany
- Prof. R. Longo, Univ. Trieste and INFN, Italy -
- Prof. A. Olivo, UCL, UK .
- Dr. A. Bravin, ESRF, France -
- Prof. A. Tomal, Univ. Campinas, Brazil
- Dr. M. Esposito, Univ. Lincoln, UK -
- Prof. E. Fantacci, Univ. Pisa and INFN, Italy -
- Dr. J. Vignero, KU Leuven, Belgium
- Dr. Gianfranco Paterno, INFN Ferrara, Italy - 1
- Prof. E. Cossu, Univ. di Roma Tor Vergata, Italy









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