

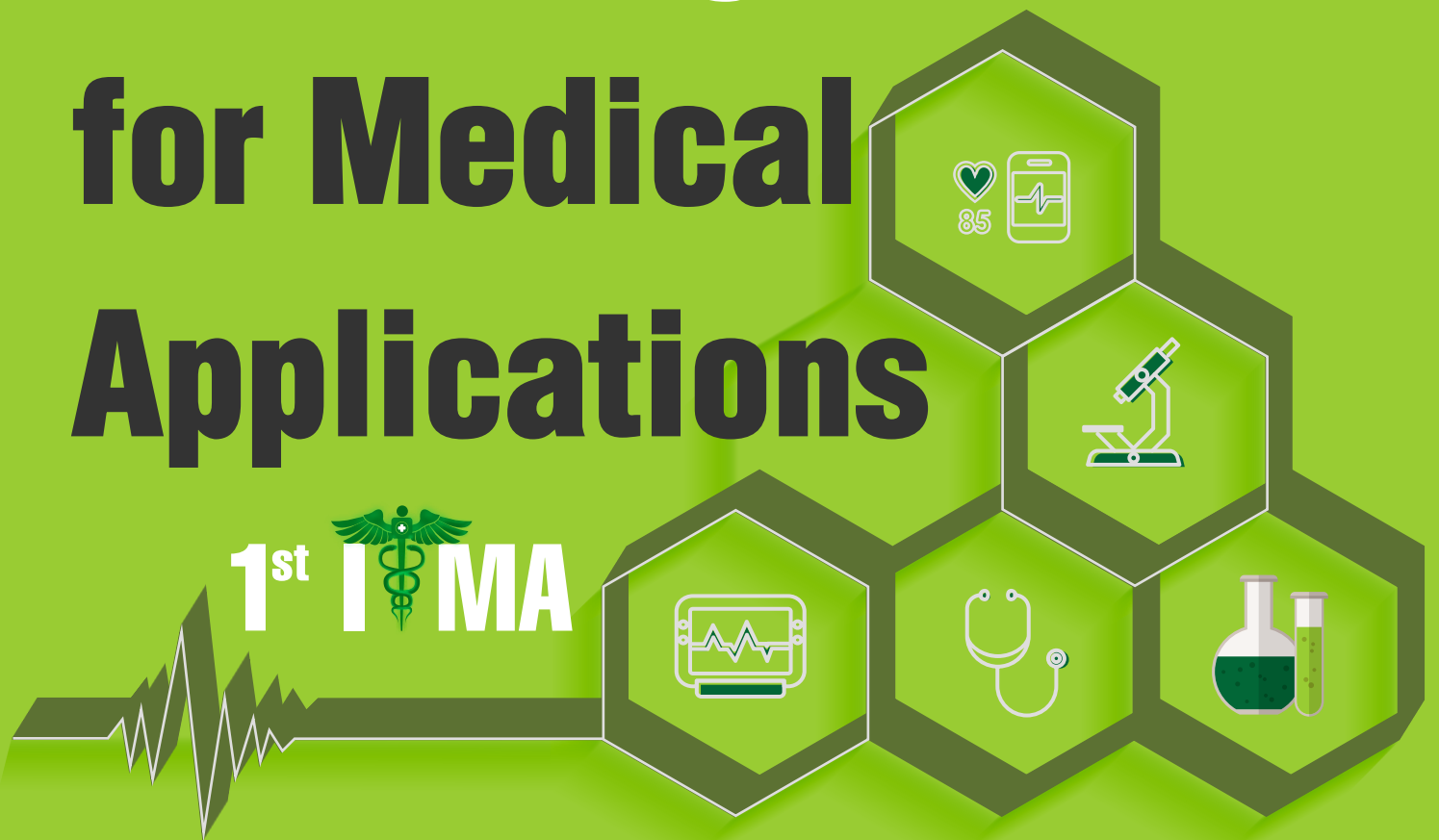
Programme

Innovative

Technologies

for Medical

Applications



1st IMA

December 01 to 02, 2022
Bucaramanga, Colombia

Universidad
Industrial de
Santander





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- Dr. Eduardo Daniel Méndez Morales
Universidad de la República, Uruguay
- Dr. Paulo Roberto Bueno
Universidade Estadual Paulista, Brazil

Invited Speakers

- ✓ Dr. Otso Arponen
Tampere University Hospital, Finland
- ✓ Dr. José Miguel García Martín
Consejo Superior de Investigaciones Científicas, Spain
- ✓ Dr. Aimilia Gastounioti
Washington University, United States of America
- ✓ Dr. Paulo Roberto Bueno
Universidade Estadual Paulista, Brazil

Topics



Mammographic image analysis



Modeling, image or signal processing in medical applications



Technologies for the diagnosis, detection or screening of cancer



Radiology, nuclear medicine and imaging

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PROGRAM

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FIRST DAY

December 01, 2022

DAY HOUR	THURSDAY MORNING
8:20 – 8:40	Registration Room: Aula Máxima de Ingeniería Mecánica Auditorium
8:40 – 9:00	Opening Ceremony: First Innovative Technologies for Medical Applications (1 st ITMA). Conference Room: Aula Máxima de Ingeniería Mecánica Auditorium
9:00 – 9:20	Oral Presentation ID 08: Region of interest classifier in mammographic images using logistic regression Speaker: Natalia Cabeza Conference Room: Aula Máxima de Ingeniería Mecánica Auditorium
9:20 – 9:40	Oral Presentation ID 09: Breast lesion detection algorithm using ideal speed of sound images Speaker: Andres Felipe Vargas Molano Conference Room: Aula Máxima de Ingeniería Mecánica Auditorium
9:40 – 10:00	Oral Presentation ID 10: A benchmark of deep-learning based models for breast cancer detection Speaker: David Esteban Ortega Figueroa Conference Room: Aula Máxima de Ingeniería Mecánica Auditorium
10:00 – 10:30	Coffee Break
10:30 – 11:00	Plenary Lecture I: Applications in biomedicine of metallic nanocolumnar films Keynote Speaker: José Miguel García Martín Conference Room: Aula Máxima de Ingeniería Mecánica Auditorium
11:00 – 11:30	Plenary Lecture II: Challenges for tech innovation in health care sector in Latin America Keynote Speaker: Paulo Roberto Bueno Conference Room: Aula Máxima de Ingeniería Mecánica Auditorium
11:30 – 11:50	Oral Presentation ID 11: Detection of autism using multilevel wavelet decomposition and support vector machines Speaker: William Cancino Conference Room: Aula Máxima de Ingeniería Mecánica Auditorium
11:50 – 12:10	Oral Presentation ID 12: Transfer learning in data-limited scenarios for breast cancer risk assessment Speaker: Gerson Africano Conference Room: Aula Máxima de Ingeniería Mecánica Auditorium
12:10 – 14:00	Lunch Break



SECOND DAY

December 02, 2022

DAY HOUR	FRIDAY MORNING
8:40 – 9:00	Coffee Break
9:00 – 9:20	Oral Presentation ID 13: Effect of field cancerization on breast texture features: an in silico study Speaker: Angie Nicole Hernández Durán Conference Room: Aula Máxima de Ingeniería Mecánica Auditorium
9:20 – 9:40	Oral Presentation ID 14: Breast cancer screening and carcinogenic field effect: a review of the state of the art Speaker: Julián Jerez Conference Room: Aula Máxima de Ingeniería Mecánica Auditorium
9:40 – 10:00	Oral Presentation ID 15: Improving the breast ultrasound Image resolution using generative adversarial network Speaker: Juan Carlos Solano Conference Room: Aula Máxima de Ingeniería Mecánica Auditorium
10:00 – 10:30	Coffee Break
10:30 – 11:00	Plenary Lecture III: Clinical notes on cancer screening, diagnosis and detection from a radiologist's perspective Keynote Speaker: Otso Arponen Conference Room: Aula Máxima de Ingeniería Mecánica Auditorium
11:00 – 11:30	Plenary Lecture IV: Conference: Predictive & prognostic biomarkers in breast cancer using computational imaging phenotypes and artificial intelligence Keynote Speaker: Aimilia Gastouniotti Conference Room: Aula Máxima de Ingeniería Mecánica Auditorium
11:30 – 11:50	Oral Presentation ID 16: Development of a biosensor for the recognition of folate receptors Speaker: Linda Bertel Garay Conference Room: Aula Máxima de Ingeniería Mecánica Auditorium
11:50 – 12:10	Oral Presentation ID 19: Challenges and opportunities associated with carrying out a pilot study in healthcare environment Speaker: Leidy Johana Rojas Bohórquez Conference Room: Aula Máxima de Ingeniería Mecánica Auditorium
12:10 – 14:00	Lunch Break

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