

	ITM campus	
Talk 1 Chair: Dr. Jorge Brieva Aula Magna	Keynote: Dr. Pallavi Tiwari Talk: “AI and radiomics in Neuro-oncology: Opportunities for Precision Medicine”	9:30 am
	Coffee break	10:30 am
Talk 2 Chair: Dr. Jorge Brieva Aula Magna	Keynote: MD. Pathologist Viviana Arias Talk: “Red de patología en Colombia”	11:00 am
	Lunch	12:00 pm
Ultrasound II Chair: Dr. Eduardo Romero Aula Magna	Feasibility of Nakagami parametric image for texture analysis Michael Chang, Bino Varghese, Jamie Gunter, Kwang J.Lee, Darryl H. Hwang and Vinay Duddalwar. University of Southern California, California, USA Analysis and Classification of Lung Tissue in Ultrasound Images for Pneumonia Detection L. Valdes, S.L. Contreras, J.A. Domínguez, J. Lopez and S.H. Contreras. Universidad Tecnológica de Bolívar. Cartagena de Indias, Colombia A low-cost multi-modal medical imaging system with fringe projection profilometry and 3D freehand ultrasound Jhacson Meza, Pedro Simarra, Sara Contreras, Lenny A. Romero, Sonia H. Contreras, Fernando Arámbula, and Andrés G. Marrugo. Universidad Tecnológica de Bolívar. Cartagena de Indias, Colombia Speckle noise reduction in echocardiography using a bank of filters based on oriented structuring elements Jorge Daniel Jara, Álvaro Andrés Sandino, Angélica Atehortúa, Carlos Ortiz and Eduardo Romero. Universidad Nacional de Colombia, Bogotá, Colombia.	1:30 pm
Digital Pathology I Chair: Dr. Pallavi Tiwari Pedro Nel Gómez auditorium	Histopathology color image processing in prostate carcinoma Julián David Vargas-López, Nicolás Toro-García, Juan Bernardo Gómez-Mendoza, Paula Andrea Toro-Castaño, Rafael Pava-Marín and Alex Enrique Pava-Ripoll. Universidad Nacional De Colombia, Bogotá, Colombia Cell density features from histopathological images to differentiate non-small cell lung cancer subtypes Andres Sandino, Charlems Alvarez, Andres Mosquera, Satish E Viswanath and Eduardo Romero. Universidad Nacional de Colombia, Bogotá, Colombia Nuclear density analysis in microscopic images for the characterization of retinal geographic atrophy Martha J. Peralta-Ildefonso, Ernesto Moya-Albor, Jorge Brieva, Esmeralda Lira-Romero, Andric C. Perez-Ortiz, Ramon Coral-Vazquez and Francisco J. Estrada-Mena. Universidad Nacional Autónoma de México, Ciudad de México, México Differentiating clear cell renal cell carcinoma from oncocytoma using curvelet transform analysis of multiphase CT: preliminary study Chinmay Jog, Bino A. Varghese, Darryl H. Hwang, Steven Y. Cen, Manju Aron, Mihir Desai and Vinay A. Duddalwar. University of Southern California, California, USA An exploratory study of one-shot learning using siamese convolutional neural network for histopathology image classification in breast cancer from few data examples Fabian Cano and Angel Cruz-Roa. Universidad de los Llanos, Villavicencio, Colombia	
	Coffee break	3:00 pm
Body Imaging I Chair: Dr. Jorge Brieva Aula Magna	Adaptive frequency saliency model based on convolutional neural networks: a case study for prostate cancer MRI Nicolás Múnera Garzón, Charlems Álvarez-Jiménez, Fabio González and Eduardo Romero. Universidad Nacional de Colombia, Bogotá, Colombia A Ktrans deep characterization to measure clinical significance regions on prostate cancer Yesid Gutiérrez, John Arevalo and Fabio Martínez. Universidad Industrial de Santander, Bucaramanga, Colombia An inception deep architecture to differentiate close-related Gleason prostate cancer scores Fabian León, Miguel Plazas and Fabio Martínez. Universidad Industrial de Santander, Bucaramanga, Colombia An Empirical Study on Global Bone Age Assessment Felipe Torres, Cristina Gonzalez, María Camila Escobar, Laura Daza, Gustavo Triana and Pablo Arbelaez. Universidad de los Andes, Bogotá, Colombia Precise Human Pose Estimation based on 2-dimensional images for kinematic analysis Sara Rojas Martínez, Diana Sofia Herrera and Pablo Arbeláez. Universidad de los Andes, Bogotá, Colombia.	3:30 pm
Brain and Ocular Imaging Chair: Dr. Darryl Hwang Pedro Nel Gómez auditorium	Learning to Segment Brain Tumors Laura Daza, Catalina Gómez, and Pablo Arbeláez. Universidad de los Andes, Bogotá, Colombia Morphometric Gaussian Process for Landmarking on Grey Matter Tetrahedral Models Yonghui Fana, Natasha Lepore and Yalin Wang. Arizona State University, Arizona, USA Enhancing DW images spatial resolution using correlated gradient information Jennifer Salguero, Nelson Velasco and Eduardo Romero. Universidad Nacional de Colombia, Bogotá, Colombia Hypothalamus fully automatic segmentation from MR images using an U-Net based architecture Livia Rodrigues, Thiago Rezende, Ariane ZanESCO, Ana Luisa Hernandez, Marcondes Franca and Leticia Rittner. University of Campinas, São Paulo, Brazil A Lightweight Deep Learning Model for Mobile Eye Fundus Image Quality Assessment Andrés D. Pérez, Oscar Perdomo and Fabio A. González. Universidad Nacional de Colombia, Bogotá, Colombia	
Aula Magna	Welcome Show	5:30 pm