

WACCI 2019 Preliminary Program

Tuesday November 12th

11:00 – *Opening Words by the Workshop Chairs*

11:10 – *AFOSR/ONR Funding Opportunities in Chile and Southamerica*

11:20 – **Pablo Coelho**, Universidad San Sebastian, Chile

“Fixed-pattern noise reduction via light-field imaging on infrared imaging systems: The inverse problem”

11:40 – **Alejandro Silva**, Universidad de la República, Uruguay

“Image Registration in Multi-Focus Fluorescence Microscopy”

12:00 – **Michael Gehm**, Duke Univeristy, USA

“Compressive Imaging through Scattering Media”

12:50 – *Lunch Break*

14:00 – **Xin Yuan**, Nokia Bell-Labs, USA

“Snapshot Compressive Imaging: Theory, Algorithms and Applications”

14:50 – **Juan Llaguno**, Universidad de la República, Uruguay

“Snapshot polarimetric imaging microscopy”

15:10 – **Henry Arguello**, Universidad Industrial de Santander, Colombia

“Compressive image processing and sensing”

15:40 – *Coffee Break*

16:00 – **Pablo Meza**, Universidad de la Frontera, Chile

“Sanpashot and multishot compressive spectral and lightfield imaging”

16:30 – **Hoover Rueda**, Universidad Industrial de Santander, Colombia

“Design of a Compressive Spectral Image Fusion Optical Architecture”

16:50 – **Enrique Tajahuerce**, Universidad Jaume I, Spain

“Computational imaging with structured light and single-pixel detection”

17:40 – *Poster Reception*

Wednesday November 13th

9:30 – **Gonzalo Arce**, University of Delaware, USA

“Coded Illumination in 5D X-Ray Tomography”

10:20 – **Andres Jerez**, Universidad Industrial de Santander, Colombia,

“Target Detection using Coded Diffraction Patterns”

10:40 – **Felipe Guzman**, Pontificia Universidad Catolica de Valparaiso, Chile

“Camera array wise-sampling scheme for temporal super-resolution with Rolling Shutter”

11:00 – *Coffee Break*

11:20 – **Samuel Pinilla**, Universidad Industrial de Santander, Colombia

“Coded Aperture Design for Phase Retrieval in Optical Imaging”

11:40 – **Andrés Guerrero**, Universidad Industrial de Santander, Colombia

“Phase Retrieval by Deformable Mirror”

12:00 – **Ryoichi Horisaki**, Osaka University, Japan

“Computational imaging with randomness”

12:50 – *Lunch*

14:00 – **Julia Alonso**, Universidad de la República, Uruguay

“Multi-focus Computational Optical Imaging: macro and microscopic applications”

14:30 – **Miguel Marquez**, Universidad Industrial de Santander, Colombia

“Compressive spectral light field tensor imaging”

14:50 – **David Brady**, Duke University, USA,

“Smart Cameras”

15:40 – *Walking Tour / Museum Visit*

20:30 – *Official Banquet*

Thursday November 14th

9:30 – **Andres Guesalaga**, Pontificia Universidad Catolica, Chile

“Computational Turbulence Profilers”

10:10 – **Florian Dötzer**, University of Erlangen-Nürnberg, Germany

“Remote Sensing of Wind Velocities in the Thermosphere Using an Interferometric Spectrometer”

10:30 – **Esteban Vera**, Pontificia Universidad Catolica de Valparaiso, Chile

“Deep Learning Adaptive Optics”

11:00 – *Coffee Break*

11:20 – **Ariel Fernández**, Universidad de la República, Uruguay

“Unconventional imaging techniques for pattern recognition with the generalized Hough transform”

11:50 – **Ofelia Villareal**, Cooperativa de Tecnólogos e Ingenieros de la Industria del Petróleo y Afines, Colombia “Shot-gather Recovery by 3D Curvelet Transformation”

12:00 – **Sean Pang**, University of Central Florida

“Signal retrieval using variational generative model”

12:50 – *Lunch*

14:00 – **Aggelos Katsaggelos**, Northwestern University, USA

“Deep Learning Superresolution”

14:50 – **Amit Ashok**, University of Arizona, USA

“Role of Coherence in Fundamental Limits of Imaging”

15:40 – *Coffee Break*

16:00 – **Marcos Diaz**, Universidad de Chile, Chile

“Satellite opportunities for Computational Imaging”

16:30 – **Gerd Haeusler**, University of Nuremberg, Germany

“Learning from Nature's Limits”

17:30 – *Closing Words by the Chairs / Poster Prize*

17:40 – *Farewell Cocktail*