

WACCI 2019 Final Program

Tuesday November 12th

10:30 – *Coffee + Registration + Poster Hanging*

11:20 – *Opening Words by the Workshop Chairs*

11:40 – *AFOSR/ONR Funding Opportunities in Chile and Southamerica*

12:00 – **Gerd Häusler**, University of Erlangen-Nürnberg

“How to Research? A Tribute to Adolf Lohman”

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 – **Hoover Rueda**, Universidad Industrial de Santander, Colombia

“Design of a Compressive Spectral Image Fusion Optical Architecture”

15:30 – *Coffee Break*

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

“Snapshot and multishot compressive spectral and lightfield imaging”

16:30 – **Henry Arguello**, Universidad Industrial de Santander, Colombia

“Compressive image processing and sensing”

17:30 – *Posters and Welcome Reception*

Wednesday November 13th

9:30 – **Enrique Tajahuerce**, Universidad Jaume I, Spain

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

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”

14:40 – **David Brady**, Duke University, USA,

“Smart Cameras”

15:30 – *Walking Tour / Museum Visit*

20:30 – *Official Banquet*

Thursday November 14th

9:30 – **Esteban Vera**, Pontificia Universidad Catolica de Valparaiso, Chile

“Deep Learning Adaptive Optics”

10:00 – **Florian Dötzer**, University of Erlangen-Nürnberg, Germany

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

10:20 – **Marcos Diaz**, Universidad de Chile, Chile

“Satellite opportunities for Computational Imaging”

11:00 – *Coffee Break*

11:30 – **Ariel Fernández**, Universidad de la República, Uruguay

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

12:10 – **Miguel Marquez**, Universidad Industrial de Santander, Colombia

“Compressive spectral light field tensor imaging”

12:30 – **Pablo Coelho**, Universidad San Sebastian, Chile

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

12:50 – *Lunch*

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

“Learning and Analytical Approaches for Solving Inverse Problems in Computational Imaging”

14:50 – **Ofelia Villareal**, Cooperativa de Tecnólogos e Ingenieros, Colombia

“Shot-gather Recovery by 3D Curvelet Transformation”

15:10 – **Alejandro Silva**, Universidad de la República, Uruguay

“Image Registration in Multi-Focus Fluorescence Microscopy”

15:30 – *Coffee Break*

16:00 – **Gerd Häusler**, University of Erlangen-Nürnberg

“Learning from Nature's Limits”

17:00 – *Closing Words by the Chairs / Poster and Presentation Awards*

17:20 – *Farewell Cocktail*