

**2017 June 28-30**

**Personalized Intelligent Living: Human, Robot and Nature**

**Penn Wharton China Center**

Penn Wharton China Center, Beijing, China

***Event Schedule***

## Day 1 June 28

| <b>Session 1: Geometry, mechanics, bioinspired materials, robotics (Chair: Shu Yang)</b> |                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:30 - 9:15                                                                              | Randall Kamien (University of Pennsylvania): <b>The Mathematics of Paper</b>                                                                                                                  |
| 9:15 - 10:00                                                                             | Cynthia Sung (University of Pennsylvania): <b>Origami robotics</b>                                                                                                                            |
| 10:00 - 10:15                                                                            | Break                                                                                                                                                                                         |
| 10:15 - 11:00                                                                            | Tutorial: Shu Yang (University of Pennsylvania):<br><b>Analyzing Biological Structures for Advanced Materials</b>                                                                             |
| 11:00 - 11:30                                                                            | Shutao Wang (王树涛)<br>(Technical Institute of Physics and Chemistry, Chinese Academy of Sciences):<br><b>Engineering Biointerface with Controlled Cell Adhesion towards Cancer Diagnostics</b> |
| 11:30 - 12:00                                                                            | Yan Ji (吉岩) (Tsinghua University):<br><b>Reconfigurable Liquid Crystalline Elastomers for Soft Robots</b>                                                                                     |
| 12:00 - 13:00                                                                            | Lunch                                                                                                                                                                                         |
| <b>Session 2: Flexible electronics &amp; Mechanics (Chair, Milin Zhang)</b>              |                                                                                                                                                                                               |
| 13:30 - 14:15                                                                            | Yonggang Huang (Northwestern University): <b>Universal Kirigami</b>                                                                                                                           |
| 14:15 - 14:45                                                                            | Milin Zhang (张沅琳) (Tsinghua University): <b>Bioinspired Sensors</b>                                                                                                                           |
| 14:45 - 15:15                                                                            | Ting Zhang (张婷) (Tsinghua University):<br><b>Bio-3D printing — Design and Fabrication of Living Constructs with 3D Printing Techniques</b>                                                    |
| 15:15 - 15:45                                                                            | Break                                                                                                                                                                                         |
| 15:45 - 16:30                                                                            | Panel Discussion                                                                                                                                                                              |

## Day 2 June 29

| <b>Session 1: Robotics</b> |                                                                                                                                                    |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:30 - 9:15                | Dan Koditscheck (University of Pennsylvania): <b>Clocks and Inner Oscillators: Re-examing the Role of Feedforward and Feedback Gait Generators</b> |
| 9:15 - 10:00               | Kostas Daniilidis (University of Pennsylvania): <b>Event-based Vision for Challenging Speeds and Illuminations</b>                                 |
| 10:00 - 10:30              | Brief group introduction & tea/coffee break                                                                                                        |
| 10:30 - 11:00              | Frank(Shaojie) Shen (Hong Kong University of Science and Technology): <b>Autonomous Aerial Navigation using Monocular Visual</b>                   |
| 11:00 - 11:30              | Yiming Zhang (Intel Lab): <b>Adaptive Human Robot Interaction and Open Research Platform</b>                                                       |
| 11:30 - 12:00              | Poster Spotlight                                                                                                                                   |
| 12:00 - 13:30              | Lunch & Poster Presentation                                                                                                                        |
| <b>Session 2: Sensors</b>  |                                                                                                                                                    |
| 13:30 - 14:00              | Feiyue Wang(王飞跃) (Chinese Academy of Sciences): <b>Autonomous Driving</b>                                                                          |
| 14:00 - 14:30              | Gansha Wu (Uisee Technology): <b>Autonomous Driving: how to overcome the technical and commercial challenges</b>                                   |
| 14:30 - 15:00              | Huimin Ma (Tsinghua University): <b>3D Scene Perception and Multi-Modal Learning</b>                                                               |
| 15:30 -16:00               | Coffee Break                                                                                                                                       |
| 16:00 - 16:30              | Yi Han 韩毅 (Chang'an University): <b>无人驾驶智能车辆的发展现状和关键技术</b>                                                                                         |
| 16:30 -17:00               | Round Table Discussion and Q & A                                                                                                                   |

## Day 3 June 30

| Session 1: Computer Vision & Machine Learning |                                                                                                                          |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 8:30 - 9:15                                   | Jianbo Shi (University of Pennsylvania):<br><b>Moving Camera, Living Images: Visual Learning from First Person Video</b> |
| 9:15 - 10:00                                  | Hai Tao (ViON Technology): <b>Computer Vision, Edge Computing and IoT</b>                                                |
| 10:00 - 10:30                                 | Brief group introduction & tea/coffee break                                                                              |
| 10:30 - 11:00                                 | Zhouchen Lin (Peking University):<br><b>First-Order Optimization Methods in Machine Learning</b>                         |
| 11:00 - 11:30                                 | Jingdong Wang (Microsoft Research Asia):<br><b>CNN Architecture Design: from Deeper to Wider</b>                         |
| 11:30 - 12:00                                 | Poster Spotlight                                                                                                         |
| 12:00 - 13:30                                 | Lunch & Poster Presentation                                                                                              |
| 13:30 - 14:00                                 | Yuanqing Lin (Baidu): <b>AI at Baidu Research</b>                                                                        |
| 14:00 - 14:30                                 | Jingyi Yu (ShanghaiTech University): <b>Giving VR/AR Eyes and Brain</b>                                                  |
| 14:30 - 15:30                                 | Coffee Break                                                                                                             |
| 15:00 -16:00                                  | Poster Presentation                                                                                                      |
| 16:00 -17:00                                  | Round Table Discussion and Q & A                                                                                         |



**Penn**  
UNIVERSITY *of* PENNSYLVANIA