

# 2017 Friends of HVEI Banquet

*a gathering for researchers at the intersection of human perception and imaging technology*

Hosted by Human Vision and Electronic Imaging Conference Chairs Bernice Rogowitz, Thrasos Pappas, and Huib de Ridder

Hyatt Regency San Francisco Airport  
Monday, January 30, 7:15 – 10:00 pm

*featuring Guest Speaker*

**Stella Yu**

*Director of the Vision Group, International Computer Science Institute, University of California Berkeley*

## Deep Learning for Gestalt and Gestalt for Deep Learning

Deep learning has delivered unprecedented success in human vision and computer vision research. The ImageNet classification task that popularized deep learning deals with semantic classification as a simple image-in-label-out supervised learning problem. It essentially asks the same question—"Does this pattern look like what I have seen during training?"—a thousand times. Such a brute-force approach is in a stark contrast to Gestalt psychologists' view of visual perception—there vision is an emergent property from the inter-relations of visual elements in the scene, but the challenge is what defines visual elements and what are their inter-relations. The distinction between the popular deep learning and the traditional Gestalt approaches boils down to: Do we see a tiger in the scene by going over every object we know of, or by seeing similar (tiger) stripes popping out from the background even if we have no name for what it is? I will discuss our works that use deep learning to make Gestalt modeling more practical, and use Gestalt organization to make deep learning more powerful.

**Return Registration Form via fax to +1 703 642 9094 by January 23**

Questions or to register for the banquet via phone, contact +1 703 642 9090

### Banquet Registration Form

\_\_\_\_ (number of tickets @) \$65\* = **Total \$**\_\_\_\_\_

Name(s) of attendees: \_\_\_\_\_

Meal includes entree plus Butternut Squash Soup with Root Vegetable Relish; two beverages (soda, wine, beer); Deep-dish Pecan Pie with Bourbon Caramel Sauce; and coffee/tea. **Please select your entree(s):**

\_\_\_ Sustainable Salmon with Roasted Baby Potatoes, Braised Rainbow Chard, and Grapefruit Butter Sauce

\_\_\_ Pork Tenderloin with Barley and Leek Risotto, Brussels Sprouts, and Red Wine Reduction

\_\_\_ Wild Mushroom Risotto with Carnaroli Rice, Parmesan Cheese, Herb Oil, Charred Fennel

#### Charge tickets to:

Name \_\_\_\_\_ Company \_\_\_\_\_

Street Address or PO Box \_\_\_\_\_

City/State/Postal Code/Country \_\_\_\_\_

Email \_\_\_\_\_ Telephone \_\_\_\_\_

Payment Method:  AMEX  MC  VISA Card#: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

Name on card: \_\_\_\_\_ Authorization Signature: \_\_\_\_\_