# Department of Computer Science and Information Engineering Multimedia computing and pattern recognition

My research interests are in pattern recognition, computer vision and machine learning. In general, the goal to develop the algorithms that will allow a computer to autonomously analyze visual information. Recent and ongoing projects in my research group consider multi-class and multi-label image classification, zero-shot learning, and unsupervised domain adaptation.

### Techniques used in study

Deep learning; Multi-class and multi-label Image recognition; Object detection; Semantic segmentation; Visual-semantic embedding, Transfer learning; Domain adaptation; Zero-shot learning; Self-supervised learning

# Mei-Chen Yeh, Professor

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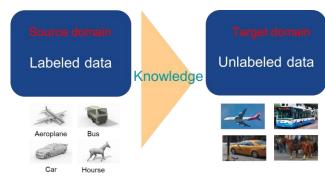
### **Education:**

Ph.D. in Electrical and Computer Engineering University of California, Santa Barbara, USA

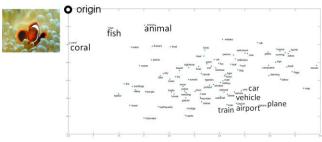
## Funding:

Ministry of Science and Technology





# Unsupervised domain adaptation for visual recognition



## Learned label space for multi-label image classification

### **Publications**

- Mei-Chen Yeh and Yi-Nan Li, "Multilabel Deep Visual-Semantic Embedding," IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 42(6), 1530-1536, 2020.
- Shih-Min Yang and Mei-Chen Yeh, "Unsupervised Multi-Task Domain Adaptation," International Conference on Pattern Recognition (ICPR), 2020.
- Chuan-Shen Hu and Mei-Chen Yeh, "A Topological Data Analysis Approach to Video Summarization," *IEEE International Conference on Image Processing (ICIP)*, 2019.



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