

Assistant Professor
 School of Computing, Informatics, and Decision Systems Engineering
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EDUCATION

Ph.D., Computer Science University of Maryland, College Park, MD, USA
 Thesis: Manipulation Action Understanding for Observation and Execution Feb. 2016
 Yiannis Aloimonos, (Chair), Cornelia Fermüller (Co-chair) John Baras, Hal Daumé III, Don Perlis.

M.S., Computer Science University of Maryland, College Park, MD, USA May. 2013

B.E., Computer Science Zhejiang University, Hangzhou, Zhejiang, China June 2010

PROFESSIONAL/RESEARCH EXPERIENCE

Assistant Professor, School of Computing, Informatics, and Decision Systems Engineering,
Arizona State University Aug 2016 – Now

Graduate Faculty, Computer Engineering (CE)
 Graduate Faculty, Robotics and Autonomous Systems (RAS)
 Honors Faculty, Barrett, the Honors College
 Founder and Director, ASU Active Perception Group (APG)

Postdoctoral Associate, Computer Vision Lab, University of Maryland Dec 2015 – Aug 2016

- Developing original algorithms for robot visual learning systems, mentoring undergraduate and graduate students for academic projects and leading a group of students for implementing a robotic house assistant system.

Graduate Research Assistant, Computer Vision Lab, University of Maryland 2010 – 2015

- Computer Vision, Robot Vision, especially exploring visual primitives in human action understanding from visual input, grounding them by natural language as well as high-level reasoning over the primitives for intelligent agents, aka. Robots.

Teaching Assistant, Computer Science, University of Maryland Aug 2010 – July 2011

- Taught Windows based and Linux based Operating Systems courses.

Undergraduate Research Assistant, Visual Interaction and Perception Analysis group, Eagle Lab,
Zhejiang University August 2008 – August 2010

- Worked on visual attention analysis from image statistics and its applications.

Undergraduate Team Member, Robocup Humanoid team, National Key Lab of Control Technology,
Zhejiang University September 2007 – August 2010

- Worked on vision system for humanoid robots, including object recognition and tracking, robot localization and linux based realtime vision system development. Member of Robocup 2009 humanoid league team (ZJUDancer, final 8).

SELECTED AWARDS AND HONORS

- The NSF Faculty Early Career Development (CAREER) Award (NSF IIS Robust Intelligence Program #1750082), 2018-2023. The winning project was “CAREER: Visual Recognition with Knowledge”
- Team leader, the first AI world cup (by KAIST), AI commentator track winner (with 5k\$ prize).
- Verisk AI faculty research award (2017: 40k\$ and 2018: 50k\$).
- The 2018 round of the inaugural Global Sport Institute (GSI) “Sports 2036” Grant. The winning topic was “Non-invasive Performance Tracking with Smart Cameras”, 2018.
- Adobe University research collaboration awards, summer, fall 2017, spring 2018, fall 2018.
- ASU The Keen Professorship, spring and fall 2017. The winning topic was “Inspiring the Entrepreneurial Desire in a Perception and Robotics Course”.
- Qualcomm innovation fellowship winner, 2011. The winning research was “Robots Need Language: A computational model for the integration of vision, language and action”.
- Dean’s Fellowship, Computer Science Department, University of Maryland College Park, 2010, 2011.
- Excellent Bachelor Thesis, Zhejiang University, China. Thesis: *Natural Image Statistics and Low Level Feature based Visual Attention Analysis*, September 2010.
- Microsoft Research Asia Young Researcher Scholarship, Microsoft Research Asia, May 2009.
- Member of Robocup team ZJUDancer, Champion at Chinaopen humanoid league , 2008-2010; Top eight at World Cup humanoid league, 2009 and 2010.

PUBLICATIONS AND INTELLECTUAL PROPERTY (In reverse chronological sequence)LEGEND

(*) Corresponding Author

Bold Font: ASU Ph.D. Student

Underline: ASU Masters Student

(#) ASU Undergraduate Student

(r)ASU Postdoctoral Researcher

(+) Equal Contributions

Co-Editor for Thematic Journal Issues

- 1 Special Issue on Semantic Policy and Action Representations for Autonomous Robots, special issue of Robotics and Autonomous Systems. Karinne Ramirez-Amaro, Yezhou Yang, Neil T. Dantam, Eren Erdal Aksoy and Gordon Cheng. Editor-in-Chief: Gaurav Sukhatme. Anticipated publication: Nov. 2018. [2017 Impact factor: 2.638]
- 2 Fine-grained Visual Understanding and Reasoning, special issue of Neurocomputing (Elsevier). Jun Yu, Yezhou Yang, Fionn Murtagh, Xinbo Gao. exp. Anticipated publication: Jul. 2019. [2017 Impact factor: 3.241]

Journal Publications(Published, In Press, and/or Accepted)

- 1 **Xin Ye**, Zhe Lin, Joon-Young Lee, Jianming Zhang, Shibin Zheng, Yezhou Yang. GAPLE: Generalizable Approaching Policy LEarning for Robotic Object Searching in Indoor Environment, *IEEE Robotics and Automation Letters (RA-L) with IROS presentation*, Vol. , No. , 2019, Accepted. 2019
- 2 **Xin Ye**, Zhe Lin, Yezhou Yang. Robot Learning of Manipulation Activities with Overall Planning through Precedence Graph, *the Special Issue on Semantic Policy and Action Representations for Autonomous Robots, with the Journal of Robotics and Autonomous Systems*, Published. 2019
- 3 **Mohammadhassan Izadyyazdanabadi**, Evgenii Belykh, Xiaochun Zhao, Leandro Borba Moreira, Sirin Gandhi, Claudio Cavallo, Jennifer Eschbacher, Peter Nakaji, Mark C Preul, Yezhou Yang. Fluorescence Image Histology Pattern Transformation using Image Style Transfer, *Frontiers in Oncology*, Published, 2019
- 4 Karinne Ramirez-Amaro, Yezhou Yang, Gordon Cheng. A survey on semantic-based methods for the understanding of human movements, *the Special Issue on Semantic Policy and Action Representations for Autonomous Robots, with the Journal of Robotics and Autonomous Systems*, Published. 2019
- 5 **Izadyyazdanabadi, Mohammadhassan** and Belykh, Evgenii and Mooney, Michael and Martirosyan, Nikolay and Eschbacher, Jennifer and Nakaji, Peter and Preul, Mark C and Yang, Yezhou*. Convolutional Neural Networks: Ensemble Modeling, Fine-Tuning and Unsupervised Semantic Localization for Neurosurgical CLE Images, *Journal of Visual Communication and Image Representation (JVCI)*, Vol. 50, Page 10-20, 2018
- 6 **Somak Aditya**, Chitta Baral, Yezhou Yang, Cornelia Fermuller, Yiannis Aloimonos*. Image Understanding using vision and reasoning through Scene Description Graph., *Journal of Computer Vision and Image Understanding (CVIU) (2018)*
- 7 **Izadyyazdanabadi, Mohammadhassan**, Evgenii Belykh, Michael Mooney, Jennifer Eschbacher, Peter Nakaji, Yezhou Yang, and Mark Preul*. "Prospects for Theranostics in Neurosurgical Imaging: Empowering Confocal Laser Endomicroscopy Diagnostics via Deep Learning." *Frontiers in Oncology 8 (2018): 240*.
- 8 Cornelia Fermuller*, Fang Wang, Yezhou Yang, Konstantinos Zampogiannis, Yi Zhang, Francisco Barranco, Michael Pfeiffer. Prediction of Manipulation Actions, *International Journal of Computer Vision (IJCV)*, Vol. , No. , 2017
- 9 **Mohammadhassan Izadyyazdanabadi**, Evgenii Belykh, Nikolay Martirosyan, Jennifer Eschbacher, Peter Nakaji, Yezhou Yang, and Mark C. Preul*. Improving utility of brain tumor confocal laser endomicroscopy: objective value assessment and diagnostic frame detection with convolutional neural networks. *Proc. SPIE, 2017*.
- 10 Yezhou Yang*, Cornelia Fermuller and Yiannis Aloimonos. A Cognitive System for Understanding Human Manipulation Actions, *Advances in Cognitive Systems, Volume 3, page 47-67*.
- 11 E. E. Aksoy, E. Ovchinnikova, A. Orhan, Yezhou Yang and T. Asfour*. Unsupervised Linking of Visual Features to Textual Descriptions in Long Manipulation Activities, *IEEE Robotics and Automation Letters (RA-L) with ICRA presentation*, Vol. , No. , 2017
- 12 Mingli Song*, Dapeng Tao, Chun Chen, Jiajun Bu, Yezhou Yang. Color-to-gray based on chance of happening preservation, *Neurocomputing, 2013*.

- 13 Mingli Song*, Chun Chen, Senlin Wang, Yezhou Yang. Low-Level and High-Level Prior Learning for Visual Saliency Estimation, *Information Sciences*, 2013.

Refereed Conference Publications

- 1 **Zhiyuan Fang**, Shu Kong, Charless Fowlkes, Yezhou Yang. Modularized Textual Grounding for Counterfactual Resilience, *the International Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019
- 2 **Aditya, Somak**, Yezhou Yang, and Chitta Baral. Integrating Knowledge and Reasoning in Image Understanding. *In the 28th International Joint Conference on Artificial Intelligence (IJCAI)*, 2019.
- 3 **Aditya, Somak, Rudra Saha**, Yezhou Yang, and Chitta Baral. Spatial Knowledge Distillation to aid Visual Reasoning. *In 2019 IEEE Winter Conference on Applications of Computer Vision (WACV)*, pp. 227-235. *IEEE*, 2019.
- 4 Ren, Yi, Steven Elliott, Yiwei Wang, Yezhou Yang, and Wenlong Zhang. "How Shall I Drive? Interaction Modeling and Motion Planning towards Empathetic and Socially-Graceful Driving." *IEEE International Conference on Robotics and Automation (ICRA) 2019*.
- 5 **Xin Ye**, Zhe Lin, Haoxiang Li, Shibin Zheng and Yezhou Yang. Active Object Perceiver: Recognition-guided Policy Learning for Object Searching on Mobile Robots, *the IEEE/RSJ International Conference on Intelligent Robots and Systems*, 2018
- 6 **Somak Aditya**, Yezhou Yang, Chitta Baral, Yiannis Aloimonos. Combining Knowledge and Reasoning through Probabilistic Soft Logic for Image Puzzle Solving , *Conference on Uncertainty in Artificial Intelligence (UAI)*, 2018
- 7 **Mohammadhassan Izadyyazdanabadi**, Evgenii Belykh, Claudio Cavallo, Xiao-chun Zhao, Sirin Gandhi, Leandro Borba Moreira, Jennifer Eschbacher, Peter Nakaji, Mark C. Preul and Yang, Yezhou*. Weakly-Supervised Learning-Based Feature Localization in Confocal Laser Endomicroscopy Glioma Images., *21st International Conference On Medical Image Computing & Computer Assisted Intervention (MICCAI) 2018*
- 8 Zunlei Feng, Zhenyun Yu, Yezhou Yang, Yongcheng Jing, Junxiao Jiang, and Mingli Song*. "Interpretable Partitioned Embedding for Customized Multi-item Fashion Outfit Composition." *In Proceedings of the 2018 ACM on International Conference on Multimedia Retrieval*, pp. 143-151. *ACM*, 2018.
- 9 Jie Song, Chengchao Shen, Yezhou Yang, Yang Liu, and Mingli Song*. Transductive Unbiased Embedding for Zero-Shot Learning. *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR) 2018*.
- 10 **Simon Stepputtis**, Yezhou Yang, Heni Ben Amor. Extrinsic Dexterity through Active Slip Control using Deep Predictive Models, *IEEE International Conference on Robotics and Automation (ICRA) 2018*.
- 11 **Somak Aditya**, Yezhou Yang, Chitta Baral. Explicit Reasoning over End-to-End Neural Architectures for Visual Question Answering, *the Thirty-Second AAAI Conference on Artificial Intelligence 2018*.
- 12 Zhang, Wenlong, Yezhou Yang, and Yi Ren. "Towards Understanding Human Decisions in Human-Robot Interactions." *In ASME 2017 Dynamic Systems and Control Conference*, pp. V001T30A009-V001T30A009. *American Society of Mechanical Engineers*, 2017.

- 13 **Wang, Yiwei, Xin Ye**, Yezhou Yang, and Wenlong Zhang. "Collision-free trajectory planning in human-robot interaction through hand movement prediction from vision." *In Humanoid Robotics (Humanoids), 2017 IEEE-RAS 17th International Conference on*, pp. 305-310. *IEEE, 2017*.
- 14 Chengxi Ye, Yezhou Yang, Cornelia Fermuller, Yiannis Aloimonos. What Can I Do Around Here? Deep Functional Scene Understanding for Cognitive Robots, *IEEE International Conference on Robotics and Automation (ICRA) 2017*.
- 15 Wentao Luan, Yezhou Yang, Cornelia Fermuller, John Baras. Fast Task-Specific Target Detection via Graph Based Constraints Representation and Checking, *IEEE International Conference on Robotics and Automation (ICRA) 2017*.
- 16 Wentao Luan, Yezhou Yang, Cornelia Fermuller, John Baras. Reliable Attribute-Based Object Recognition Using High Predictive Value Classifiers, *European Conference on Computer Vision (ECCV) 2016*.
- 17 Ren Mao, John Baras, Yezhou Yang, Cornelia Fermuller. Co-active Learning to Adapt Humanoid Movement for Manipulation, *IEEE-RAS International Conference on Humanoid Robots (Humanoids) 2016*.
- 18 Somak Aditya, Chitta Baral, **Yezhou Yang**, Cornelia Fermuller, Yiannis Aloimonos. DeepIU: An Architecture for Image Understanding, *Advances in Cognitive Systems (ACS) 2016*.
- 19 Chengxi Ye, Chen Zhao, **Yezhou Yang**, Cornelia Fermuller, Yiannis Aloimonos. LightNet: A Versatile, Standalone Matlab-based Environment for Deep Learning, *The Open Source Software Competition, ACM MM 2016*.
- 20 **Yezhou Yang**, Cornelia Fermuller, Yiannis Aloimonos and Eren Erdal Aksoy. Learning the Semantics of Manipulation Action, *the annual meeting of the Association for Computational Linguistics (ACL) 2015*.
- 21 **Yezhou Yang**, Cornelia Fermuller, Yi Li and Yiannis Aloimonos. Grasp Type Revisited: A Modern Perspective on A Classical Feature for Vision, *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR) 2015*.
- 22 Yi Zhang, **Yezhou Yang**, Cornelia Fermuller and Yiannis Aloimonos. Does the grasp type reveal action intention? *The Vision Sciences Society Annual Meeting (VSS) 2015*.
- 23 Konstantinos Zampogiannis, **Yezhou Yang**, Cornelia Fermuller and Yiannis Aloimonos. Learning the Spatial Semantics of Manipulation Actions through Preposition Grounding, *IEEE International Conference on Robotics and Automation (ICRA) 2015*.
- 24 Somak Aditya, **Yezhou Yang**, Chitta Baral, Cornelia Fermuller, Yiannis Aloimonos. Visual common-sense for scene understanding using perception, semantic parsing and reasoning. *Common-sense, AAAI Spring Symposium 2015*.
- 25 **Yezhou Yang**, Yi Li, Cornelia Fermuller and Yiannis Aloimonos. Robot Learning Manipulation Action Plans by "Watching" Unconstrained Videos From the World Wide Web, *The Twenty-Ninth AAAI Conference on Artificial Intelligence (AAAI) 2015*.
- 26 **Yezhou Yang**, Anupam Guha, Cornelia Fermuller and Yiannis Aloimonos. Manipulation Action Tree Bank: A Knowledge Resource for Humanoids, *IEEE-RAS International Conference on Humanoid Robots (HUMANOIDS) 2014*.

- 27 Ren Mao, **Yezhou Yang**, Cornelia Fermuller, Yiannis Aloimonos and John Baras. Learning Hand Movements from Markerless Demonstrations for Humanoid Tasks, *IEEE-RAS International Conference on Humanoid Robots (HUMANOIDS) 2014*.
- 28 **Yezhou Yang**, Cornelia Fermuller and Yiannis Aloimonos. Detection of Manipulation Action Consequences (MAC), *International Conference on Computer Vision and Pattern Recognition (CVPR) 2013*.
- 29 **Yezhou Yang**, Ching L. Teo, Cornelia Fermuller and Yiannis Aloimonos. Robots with Language: Multi-Label Visual Recognition Using NLP, *IEEE International Conference on Robotics and Automation (ICRA) 2013*.
- 30 Anupam Guha, **Yezhou Yang**, Cornelia Fermuller and Yiannis Aloimonos. Minimalist Plans for Interpreting Manipulation Actions, *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2013*.
- 31 Xiaodong Yu, C. L. Teo, **Yezhou Yang**, Cornelia Fermuller and Yiannis Aloimonos. Action Attribute Detection from Sports Videos with Contextual Constraints, *British Machine Vision Conference (BMVC) 2013*.
- 32 Douglas Summers-Stay, Ching L. Teo, **Yezhou Yang**, Cornelia Fermuller and Yiannis Aloimonos. Using a Minimal Action Grammar for Activity Understanding in the Real World, *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2012*.
- 33 Ching L. Teo, **Yezhou Yang**, Cornelia Fermuller, Yiannis Aloimonos. Synergistic Methods for using Language in Robotics *PerMIS 12*.
- 34 Ching L. Teo, **Yezhou Yang**, Hal Daume III and Yiannis Aloimonos. The Watson That Sees: Language-Guided Action Recognition for Robots, *IEEE International Conference on Robotics and Automation (ICRA) 2012*.
- 35 Xiaodong Yu, Ching L. Teo, **Yezhou Yang**, Cornelia Fermuller, Yiannis Aloimonos. Active Scene Recognition with Vision and Language. *International Conference on Computer Vision (ICCV) 2011*.
- 36 **Yezhou Yang**, Ching L. Teo, Hal Daume III and Yiannis Aloimonos. Corpus-Guided Sentence Generation of Natural Images, *Conference on Empirical Methods in Natural Language Processing (EMNLP) 2011*.
- 37 Ching L. Teo, **Yezhou Yang**, Hal Daume III, Cornelia Fermuller and Yiannis Aloimonos. A Corpus-Guided Framework for Robotic Visual Perception. *AAAI Workshop on Language-Action Tools for Cognitive Artificial Agents. 2011*.
- 38 **Yezhou Yang**, M. Song, J. Bu, C. Chen, C. Jin. Color to Gray: Attention Preservation, *Fourth Pacific-Rim Symposium on Image and Video Technology (PSIVT) 2010*.
- 39 **Yezhou Yang**, M. Song, N. Li, J. Bu, C, Chen. What is the Chance of Happening: A New Way to Predict Where People Look, *European Conference on Computer Vision (ECCV) 2010*.
- 40 **Yezhou Yang**, M. Song, N. Li, J. Bu, C, Chen. Visual attention analysis by pseudo gravitational field, *the seventeen ACM international conference on Multimedia (ACMMM) 2009*.

Intellectual Property: Patents

- 1 Aloimonos, Yiannis, Cornelia Fermuller, Yezhou Yang, Yi LI, and Katerina Pastra. "LEARNING MANIPULATION ACTIONS FROM UNCONSTRAINED VIDEOS." U.S. Patent Application 15/011,025, filed August 4, 2016.

- 2 **Wang, Yiwei, Xin Ye**, Yezhou Yang, and Wenlong Zhang. “Collision-free trajectory planning in human-robot interaction through hand movement prediction from vision.”, Pending.
- 3 Qiushi Fu, Yezhou Yang, and Marco Santello. “Computer-Vision-Based Clinical Assessment of Upper Extremity Function.”, Pending.

PROFESSIONAL ACTIVITY and SERVICE

Editor, Associate Editor for peer-reviewed journals

- 1 Associate Editor, The Visual Computer (TVCJ) Journal
- 2 Special Issue on Semantic Policy and Action Representations for Autonomous Robots, special issue of Robotics and Autonomous Systems. Karinne Ramirez-Amaro, Yezhou Yang, Neil T. Dantam, Eren Erdal Aksoy and Gordon Cheng. Editor-in-Chief: Gaurav Sukhatme. Anticipated publication: Nov. 2018. [2017 Impact factor: 2.638]
- 3 Fine-grained Visual Understanding and Reasoning, special issue of Neurocomputing (Elsevier). Jun Yu, Yezhou Yang, Fionn Murtagh, Xinbo Gao. exp. Anticipated publication: Jul. 2019. [2017 Impact factor: 3.241]

International National Conference Committees

Conference Area Chair: AAAI 2020;

Conference Associate Editor: ICRA 2018,2019;

Conferences Technical Program Committee or Reviewer: ICML 2019, CVPR 2019, AAAI 2017, 2018, IJCAI 2016,2017, ICRA 2015,2016,2017,2018,2019, Humanoids 2014,2015,2016,2017, IROS 2014,2015,2016,2017,2018,2019, ICME 2013,2014,2015,2016.

International National Seminars and Conference Sessions Organized and/or Chaired

Workshop on Deep Learning for Autonomous Robots, colocated with RSS 2016;

The First, Second and Third Workshop on Semantic Policy and Action Representations for Autonomous Robots, colocated with IROS 2015, IROS 2017 and IROS 2018;

First Workshop on Induce and Deduce: Integrating learning of representations and models with deductive, explainable reasoning that leverages knowledge, colocated with KR 2018.

Peer Reviewer for Journals

Journal Reviewers: International Journal of Computer Vision (IJCV), Computer Vision and Image Understanding (CVIU), IEEE Transactions on Robotics (T-RO), The Visual Computer, Information Sciences, Neurocomputing, Image and Vision Computing, Journal of Visual Communication and Image Representation, Cognitive Computation, Journal of Sensors, etc.

Peer Reviewer Service for Funding Agencies

- 1 Panelist, National Science Foundation, May 2017, March 2019.

INVITED TALKS/PRESENTATIONSInvited Presentations - External

- 1 Tech Talk “Visual Recognition with Knowledge: from an Active Agent’s Perspective”, at the 2019 Telluride Neuromorphic Engineering workshop, Telluride, CO, July 2019;
- 2 Tutorial Talk “Machine Common Sense: from Developmental Psychology’s persepetive”, at the 2019 Telluride Neuromorphic Engineering workshop, Telluride, CO, July 2019;
- 3 Tech Talk “Visual Recognition with Knowledge: from an Active Agent’s Perspective”, at the GigaVision workshop collocated with CVPR 2019, Los Angeles, CA, June 2019;
- 4 Tech Talk “Active Perception Beyond Appearance, and its Robotic Applications”, at the ARL workshop, Austin, Texas, Jan 2019;
- 5 Tech talk “Recognition Beyond Appearance, and its Robotic Applications” 3rd Workshop on Semantic Policy and Action Representations for Autonomous Robots (SPAR) October 05, 2018 - Madrid, Spain at IROS 2018
- 6 Tech talk “HUMAN-ROBOT INTERACTION AND RECOGNITION: GOING BEYOND APPEARANCE AND ROBOTIC APPLICATIONS”, RoboBusiness Conference, Sep. 26th - San Jose 2018.
- 7 Mini-course “Deep Learning Demystified” at the NSF TRIPODS summer symposium, Tuscon, AZ, May 2018;
- 8 Tech talk “Vision-Language integration challenges and needs in Robotics” at the 3rd integrating Vision and Language training school, Sep 5th, Athens, Greece.
- 9 Tech talk “Active Perception Beyond Appearance, and its Robotic Applications” at the Brain team, Google Inc, June 2017;
- 10 Human Manipulation Action Understanding for Cognitive Robots, at Carnegie Mellon University VASC seminar, May 2016;
- 11 Visual Interpretation of Manipulation Actions part II, at Mid-Atlantic Computer Vision (MACV) Workshop 2016, John Hopkins University, April 2016;
- 12 Human Manipulation Action Understanding for Cognitive Robots, at Princeton Computer Vision Seminar, Feb 2016;
- 13 Grasping type, Action Intention, and Manipulation Semantics, at Institute of Cyber-systems and Control, Zhejiang University, August 2015;
- 14 Visual Interpretation of Manipulation Actions part I, at Mid-Atlantic Computer Vision (MACV) Workshop 2014, Virginia Tech University, April 18th 2014;
- 15 Plenary Socratic Dialogue, the Manipulation Action Language, together with Prof. Yiannis Aloimonos at Humanoids 2013, Oct 17th 2013;

Invited Presentations - ASU Internal

- 1 How to crack academic interviews. PostDoc Best Practice faculty talk, at Arizona State University, Nov. 2016;
- 2 Visual Interpretation of Manipulation Actions for Cognitive Robots PostDoc Best Practice faculty research talk, at Arizona State University, Sep. 2016;

- 3 Visual Interpretation of Manipulation Actions for Cognitive Robots at GPUs for Deep Learning and Embedded Technologies Workshop at Arizona State University, June 2016;

Invited Conference Presentations

- 1 Tech talk “Recognition Beyond Appearance, and its Robotic Applications” 3rd Workshop on Semantic Policy and Action Representations for Autonomous Robots (SPAR) October 05, 2018 - Madrid, Spain at IROS 2018
- 2 Tech talk “HUMAN-ROBOT INTERACTION AND RECOGNITION: GOING BEYOND APPEARANCE AND ROBOTIC APPLICATIONS”, RoboBusiness Conference, Sep. 26th - San Jose 2018.
- 3 Mini-course “Deep Learning Demystified” at the NSF TRIPODS summer symposium, Tuscon, AZ, May 2018;
- 4 Tech talk “Vision-Language integration challenges and needs in Robotics” at the 3rd integrating Vision and Language training school, Sep 5th, Athens, Greece.
- 5 Visual Interpretation of Manipulation Actions part II, at Mid-Atlantic Computer Vision (MACV) Workshop 2016, John Hopkins University, April 2016;
- 6 Visual Interpretation of Manipulation Actions part I, at Mid-Atlantic Computer Vision (MACV) Workshop 2014, Virginia Tech University, April 18th 2014;
- 7 Plenary Socratic Dialogue, the Manipulation Action Language, together with Prof. Yiannis Aloimonos at Humanoids 2013, Oct 17th 2013;

SELECTED MEDIA CONVERAGE

- Artificial intelligence changes how athletes and fans experience sports. GlobalSport Matters
- Robot See, Robot Do: How Robots Can Learn New Tasks by Observing. MIT Technology Review.
- Teaching a robot to cook by showing it YouTube videos of cooking shows. Robohub.
- Step aside, Bourdain. Robot learns to cook by watching YouTube videos. Diamondback UMD.
- Robot Learns to Cook from YouTube Videos. Discover Magazine.

Last updated: July 8, 2019