KONSTANTINOS TSIAKAS

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RESEARCH INTERESTS:
Machine Learning, Reinforcement learning, Interactive Learning, Multimodal Adaptive Systems, Human-Machine Interaction

EDUCATION:

- ***2013 – present:*** Ph.D. Candidate, Computer Science and Engineering Department, University of Texas, Arlington ***Supervisor Professor:*** Prof. Fillia Makedon
- ***2004-2012 :*** Dipl. Ing in Electronical and Computer Engineering at Technical University of Crete, Greece ***Thesis Supervisor Professor:*** Prof. Vassilis Digalakis.

EXPERIENCE:

- **The University of Texas at Arlington**
  - **August 2016 – *present*:** *Graduate Research Assistant,*
    - *Teaching and Project Assistant: HCI class*
    - *Research on Interactive Learning and Adaptive for Robot-Assisted Training*
  - ***August 2014 – June 2015:*** *Graduate Research Assistant,*
    - Supervisor: Prof. Fillia Makedon, Director of HERACLEIA *lab*
    - Research on: *Multimodal Adaptive Interfaces for Rehabilitation Systems*
  - ***August 2013 – May 2014:*** *Graduate Teaching Assistant,*
    - *Discrete Structures*
- **National Center of Scientific Research – NCSR "Demokritos"**
  - ***June 2015 – August 2016:*** Research Fellow,
    - Supervisor: Prof. Vangelis Karkaletsis
    - Research on: *Interactive Reinforcement Learning for Adaptive Agents*
  - ***May 2014 – August 2014:*** Research Assistant, *International Research- centered Summer School (IRSS 2013)*
  - ***May 2013 – August 2013:*** Student Participant, IRSS 2013

PROJECT AND RESEARCH EXPERIENCE:

- Interactive Learning for Adaptive Robot Assisted Training (NSF Grant: 1565328)
- A Multimodal Adaptive Rehabilitation Session Manager (NSF Grant: 1337866)
- Self- Assessment Tool for Depressive and Anxiety Disorders (NSF Grant: 1337866)
- An Interactive Game-based Approach to Multimodal Robot Learning – IRSS2014
- RoboMAE: A Multimodal Annotation Environment for Robot sensor data – IRSS2013
- Statistical Language Modeling in Continuous Space using Gaussian Distributions, Diploma Thesis, Technical University of Crete - TUC, Chania, Greece

PUBLICATIONS:

- K. Tsiakas et al., **"An Intelligent Interactive Learning and Adaptation Framework for Robot-Based Vocational Training"**, *In IEEE Symposium Series on Computational Intelligence, SSCI 2016*
- K. Tsiakas et al., **"Adaptive Robot Assisted Therapy using Interactive Reinforcement Learning", i**n *International Conference on Social Robotics, ICSR 2016*
- K. Tsiakas et al., **"An Interactive Learning and Adaptation Framework for Adaptive Robot Assisted Therapy"**, In *Proceedings of the 9th International Conference on PErvasive Technologies Related to Assistive Environments – PETRA 2016.*
- K.Tsiakas, C. Abellanoza, F. Makedon, **"Interactive Learning and Adaptation for Robot Assisted Therapy for People with Dementia",** In *Proceedings of the 9th International Conference on PErvasive Technologies Related to Assistive Environments – PETRA 2016.* ***(BEST STUDENT PAPER AWARD)***
- K. Tsiakas, **"Facilitating Safe Adaptation of Learning Agents using Interactive Reinforcement Learning"**, *Student Consortium – Intelligent User Interfaces – ACM IUI 2016*
- K. Tsiakas, M. Huber and F. Makedon. **"A Multimodal Adaptive Rehabilitation Session Manager for Physical Exercising"**. In *Proceedings of the 8th International Conference on PErvasive Technologies Related to Assistive Environments – PETRA 2015.*
- K. Tsiakas et al. **"A Multimodal Adaptive Dialogue Manager for Assessing Depressive and Anxiety Disorders: A Wizard of Oz Experiment"**, *In Proceedings of PETRA 2015.*
- K.Tsiakas, *"***Decision Making for Affective Agents in Assistive Environments"**, *Doctoral Consortium -- Interactive Virtual Agents conference - IVA 2015.*
- N. Parde, et al. **"Grounding the meaning of words through vision and interactive gameplay."** In *Proceedings of the 24th International Joint Conference on Artificial Intelligence, IJCAI 2015*
- M Papakostas, et al., **"An interactive framework for learning user-object associations through human-robot interaction."** *PETRA 2015.*
- N. Parde, et al., "**I Spy: An Interactive Game-based Approach to Multimodal Robot Learning.**" *In AAAI-15 Workshop on Knowledge, Skill, and Behavior Transfer in Autonomous Robots.*
- A. Papangelis, et al., "**A Dialogue System for Ensuring Safe Rehabilitation.**" In *Universal Access in HCI,* 2014.
- K. Tsiakas, D. Zikos and F. Makedon. "**An Audiovisual Patient Identification for Rehabilitation.**" In *PETRA 2014.*
- K. Tsiakas, T. Giannakopoulos and S. Konstantopoulos. "**A Semi-Automatic Multimodal Annotation Environment for Robot Sensor Data."** In *MMEDIA 2014.*

HONORS AND AWARDS:

- **July 2016:** Best Student Paper Award – PETRA 2016
- ***March 2016:*** Student Consortium – IUI 2016 Conference
- ***August 2015:*** Doctoral Consortium – IVA 2015 Conference
- ***October 2014:*** IEEE HAVE 2014 Doctoral Consortium Award, HAVE 2014 Conference
- ***July 2014:*** 1st award project – IRSS2014, NCSR "Demokritos"
- ***August 2013 – August 2016:*** Graduate STEM fellowship, University of Texas, Arlington

CONFERENCES AND MEETINGS:

- Presented papers at: PETRA 2014, HAVE 2014, HCII 2015, PETRA 2015, IVA 2015, IUI 2016, PETRA 2016, ICSR 2016
- Presented at IAB meetings of NSF I/UCRC: “Safe Adaptation of Intelligent Systems”
- Student Volunteer: PETRA 2015, IUI 2016, PETRA 2016
- Assistant reviewer for H2CI 2015, PETRA 2015, PETRA 2016 and ICSR 2016 conferences
- Organizing Committee member of PETRA 2015 conference (www.petrae.org)