

# Curriculum Vitae

## PERSONAL INFORMATION

Name and surname **Ivana Palunko**  
Academic title Associate professor  
Year and institution of PhD obtained 2012, University of New Mexico, USA  
Address Ćira Carića 4, HR - 20000 Dubrovnik, Croatia  
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## WORK EXPERIENCE

Date (from – until) 01.10.2014. -  
Institution University of Dubrovnik  
Position Associate Professor  
Work field Control Systems Theory, Aerial Robotics, Adaptive Optimal Control, Multi-agent Systems, Reinforcement Learning

Date (from – until) 10.10.2013. - 10.06.2014  
Institution Technical University of Munich, Institute for Information-oriented Control  
Position Postdoctoral researcher (2013 - 2014)  
Work field Control Systems Theory, Adaptive optimal Control, Multi-agent Systems

Date (from – until) 15.10.2012. - 31.09.2014  
Institution University of Zagreb, Faculty of Electrical Engineering and Computing  
Position Postdoctoral researcher (2012 - 2014)  
Work field Control Systems Theory, Aerial Robotics, Adaptive optimal Control, Multi-agent Systems

Date (from – until) 10.08.2008. - 01.09.2012  
Institution University of New Mexico, Department of Electrical and Computer Engineering  
Position Graduate assistant (2008 - 2012)  
Work field Control Systems Theory, Aerial Robotics, Adaptive Optimal Control, Multi-agent Systems

Date (from – until) 17.11.2007. - 31.06.2008  
Institution University of Zagreb, Faculty of Electrical Engineering and Computing  
Position Research assistant (2007 - 2008)  
Work field Adaptive control, modelling and prediction of psychophysiological state of humans

## EDUCATION

Date 21.12.2012.  
Place Albuquerque, NM, USA  
Institution University of New Mexico  
Title of qualification awarded PhD in Electrical Engineering, Control systems and robotics

Date 23.10.2007.  
Place Zagreb, Croatia  
Institution University of Zagreb, Faculty of Electrical Engineering and Computing  
Title of qualification awarded Dipl. Ing., in Electrical Engineering, major Control Systems

## MEMBERSHIP IN SCIENCE ORGANIZATIONS AND BODIES

IEEE - Institute of Electrical and Electronic Engineers, IEEE Women in Engineering, IEEE Robotics and Automation Society, IEEE Young Professionals, IEEE Control Systems Society, IEEE Aerospace and Electronic Systems Society

**Ten most influential scientific publications:**

1. **Palunko, Ivana**; Tolić, Domagoj; Prkačin, Vicko. Learning Near-Optimal Broadcasting Intervals in Decentralized Multi-Agent Systems using Online Least-Square Policy Iteration, // IET control theory and applications (to appear), (Q1, IF = 3.343)
2. Buşoniu, Lucian; de Bruin, Tim; Tolić, Domagoj; Kober, Jens; **Palunko, Ivana**. Reinforcement learning for control : Performance, stability, and deep approximators // Annual reviews in control, 46 (2018), 8-28 doi:10.1016/j.arcontrol.2018.09.005 (Q1, IF = 4.987 )
3. Faust, Aleksandra; **Palunko, Ivana**; Cruz, Patricio; Fierro, Rafael; Tapia, Lydia. Automated Aerial Suspended Cargo Delivery through Reinforcement Learning // Artificial intelligence, 247 (2017), 381-398 doi:10.1016/j.artint.2014.11.009 (Q1, IF = 6.628)
4. Haus, Tomislav; **Palunko, Ivana**; Tolić, Domagoj; Bogdan, Stjepan; Lewis, Frank L.; Mikulski, Dariusz G. Trust-Based Self-Organizing Network Control // IET control theory and applications, 8 (2014), 18; 2126-2135 doi:10.1049/iet-cta.2014.0333 (Q1, IF = 3.343)
5. **Palunko, Ivana**; Donner, Philine; Buss, Martin; Hirche, Sandra. Cooperative suspended object manipulation using reinforcement learning and energy-based control // Proceedings of IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2014), 2014 Chicago, Sjedinjene Američke Države, 2014. str. 885-891
6. **Palunko, Ivana**; Faust, Aleksandra; Cruz, Patricio; Tapia, Lydia; Fierro, Rafael. A reinforcement learning approach towards autonomous suspended load manipulation using aerial robots // Proceedings of IEEE International Conference on Robotics and Automation (ICRA), 2013 Karlsruhe, Njemačka: IEEE, 2013. str. 4896-4901
7. **Palunko, Ivana**; Cruz, Patricio; Fierro, Rafael Agile Load Transportation: Safe and Efficient Load Manipulation with Aerial Robots // IEEE robotics & automation magazine, 19 (2012), 3; 69-79 doi:10.1109/MRA.2012.2205617 (Q1, IF = 3.097)
8. **Palunko, Ivana**; Faust, Aleksandra; Cruz, Patricio; L.Tapia and R.Fierro, Suspended Load Manipulation Using Aerial Robots and Least Square Policy Iteration, (ICRA'13), Karlsruhe, Germany, May, 2013.
9. **Palunko, Ivana**; Fierro, Rafael and Cruz, Patricio Trajectory Generation for Swing-Free Maneuvers of a Quadrotor with Suspended Payload: A Dynamic Programming Approach, International Conference on Robotics and Automation, (ICRA'12), St.Paul, MN, May, 2012.
10. **Palunko, Ivana**; Fierro, Rafael; Adaptive Feedback Controller Design and Quadrotor Modeling under Dynamic Changes of the Center of Gravity, 18th IFAC World Congress (IFAC'11), Milan, Italy, August, 2011.

**OTHER RESEARCH ACTIVITIES****Review Activities****Conferences**

- IEEE International Conference on Robotics and Automation - ICRA
- IEEE European Control Conference - ECC
- IEEE International Conference on Intelligent Robots and Systems - IROS
- IEEE Multi-conference on Systems and Control - MSC
- IEEE Annual Conference of the Industrial Electronics Society - IECON
- Military Communications Conference - MILCOM
- IEEE Mediterranean Conference on Control and Automation - MED
- IEEE American Control Conference - ACC
- IEEE Conference on Decision and Control – CDC
- Robotics: Science and Systems - RSS

**Journals**

- Journal of Intelligent and Robotic Systems - JINT
- Transactions of the Institute of Measurement and Control - T-IMC
- IEEE Transactions on Automation Science and Engineering - T-ASE
- IEEE Transactions on Robotics - T-RO
- IEEE Transactions on Control Systems Technology - TCST
- Journal of Defense Modeling and Simulation - JDMS
- IEEE Control Systems Magazine – CSM
- Automatica