
PERSONAL INFORMATION

Date of Birth: 22.09.1983

Address: 13 Lydias Street, 15232, Chalandri, Greece

Nationality: Greek

Marital Status: Married with two children

Compulsory Military Service: Fulfilled

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SCIENTIFIC PROFILE

My main research interests involve the integration of automatic control, robotics, mechatronics and computer science in closed loop schemes (physical computing). In particular, my expertise spans the areas of nonlinear control, decentralized control of multi-agent systems, unmanned robotic platforms (aerial, ground and underwater), visual servoing, real time control and embedded systems. In my research methodology, I aspire to formulate open issues in control engineering within a generic control framework, identify motivating applications that can be enabled by new control approaches, develop efficient control algorithms and validate their effectiveness experimentally (if possible) in practical setups. As a consequence, my research profile spans a broad spectrum from theoretical advances all the way to real-time implementation and demonstrates the end-to-end value of my research contributions.

EDUCATION

10.2006 - 12.2011 Aristotle University of Thessaloniki, Department of Electrical & Computer Engineering, Greece

Doctor of Philosophy (PhD) in Electrical Engineering (“Excellent”)

Thesis: Prescribed Performance Control of Input Affine Nonlinear Dynamical Systems

10.2006 - 03.2011 Aristotle University of Thessaloniki, Department of Mathematics, Greece

Bachelor (BSc) in Mathematics

Graduated **2nd** out of a class of 160 students (**GPA: 8.94/10**)

10.2001 - 07.2006 Aristotle University of Thessaloniki, Department of Electrical & Computer Engineering, Greece

Diploma and Master of Science in Electrical & Computer Engineering

Graduated **1st** out of a class of 200 students (**GPA: 9.51/10**)

RESEARCH EXPERIENCE

06.2021 - present University of Patras, Department of Electrical & Computer Engineering, Greece
Associate Professor at the Division of Systems and Control

02.2012 - present National Technical University of Athens, School of Mechanical Engineering, Greece
Research Associate & Project Manager in 5 EU and 4 National Projects: *co-supervision of a research group, representation at project/review/integration meetings, preparation of S/T and economic periodic reports, proposal preparation*

01.2012 - 12.2012 Aristotle University of Thessaloniki, Department of Electrical & Computer Engineering, Greece

Research Associate & Project Manager: *preparation of S/T periodic reports*

05.2011 - 02.2012 Research & Information Directorate - Hellenic Army, Greece

Software Engineer: *software development*

TEACHING EXPERIENCE

- 2018 - 2019** **National Technical University of Athens, School of Mechanical Engineering, Greece**
Adjunct Assistant Professor in Undergraduate Courses on “Electric Circuits” (2nd semester), “Industrial Electronics” (4th semester), “Introduction to Automatic Control” (6th semester) and “Digital Control” (8th semester).
- 2013 - 2021** **National Technical University of Athens, School of Mechanical Engineering, Greece**
Adjunct Lecturer in Postgraduate Course on “Intelligent Control and Robotic Systems”.
- 2017 - 2018** **Aristotle University of Thessaloniki, Department of Electrical & Computer Engineering, Greece**
Adjunct Lecturer in Undergraduate Courses on “Optimization Techniques” (6th semester) and “Intelligent Robotic Systems” (9th semester).
- 2014 - 2018** **National Technical University of Athens, School of Mechanical Engineering, Greece**
Teaching Assistant in Undergraduate Courses on “Control Systems II” (7th semester) and “Intelligent Control Systems and Robotics” (9th semester).
- 2007 - 2011** **Aristotle University of Thessaloniki, Department of Electrical & Computer Engineering, Greece**
Teaching Assistant in Undergraduate Courses on “Electrical Measurements” (5th semester), “Optimization Techniques” (6th semester) and “System Modeling and Simulation” (7th semester).

FELLOWSHIPS and AWARDS

- 2016 - 2018** **Post-Doctoral Fellowship, Onassis Foundation**
National Technical University of Athens, School of Mechanical Engineering, Greece.
- 2015 - 2016** **Outstanding Reviewer Award, Automatica - Elsevier**
- 2012** **Post-Doctoral Fellowship, Research Committee**
Aristotle University of Thessaloniki, Department of Electrical & Computer Engineering, Greece.
- 2007 - 2011** **Scholarship for excellence in post-graduate (Doctoral) studies, Onassis Foundation**
Aristotle University of Thessaloniki, Department of Electrical & Computer Engineering, Greece.
- 2003 - 2006** **Awards for excellence in undergraduate studies, Technical Chamber of Greece**
Aristotle University of Thessaloniki, Department of Electrical & Computer Engineering, Greece.
- 2002 - 2006** **Scholarships for excellence in undergraduate studies, State Scholarship Foundation**
&
2009 - 2011 Aristotle University of Thessaloniki, Department of Electrical & Computer Engineering and Department of Mathematics, Greece.

MEMBERSHIPS & REVIEWING ACTIVITIES

2020	Topic Editor, Research Topic: “Decentralized Cooperative Aerial Multi-Robot Systems” in Frontiers in Robotics and AI (ISSN 2296-9144)
2020	Guest Editor, Special Issue: “Decentralized Multi-Robot Systems” in Robotics (ISSN 2218-6581)
2019 - 2020	Associate Editor of European Control Conference
2018 - 2019	Associate Editor of IEEE/RSJ International Conference on Intelligent Robots and Systems
2015 - 2016	Outstanding reviewer award in Automatica - Elsevier
2015 - present	Review Editor of Frontiers in Robotics and AI (Topic: Robotic Control Systems)
2015	Book reviewer: Elsevier - Mechanical Systems and Control Acquisitions S&T books
2012 - present	Member of the Technical Chamber of Greece
2011 - present	Reviewer in Journals (IEEE Transactions on Automatic Control (~4 papers/year), Automatica (~6 papers/year), IEEE Transactions on Control Systems Technology (~2 papers/year), IEEE Transactions on Robotics (~2 paper/year), IEEE Robotics and Automation Letters (~2 paper/year))
2010 - present	Reviewer in Conferences (IEEE Conference on Decision and Control (~2 papers/year), IEEE American Control Conference (~1 paper/year), IEEE International Conference on Robotics and Automation (~3 papers/year), IEEE/RSJ International Conference on Intelligent Robots and Systems (~3 papers/year))

RESEARCH PROJECTS

Project Title	Funding source	Period	Role
Co4Robots: Achieving Complex Collaborative Missions via Decentralized Control and Coordination of Interacting Robots	EU H2020-731869	2017-2019	Co-applicant & Technical Project Manager
ERMIS: Distributed Adaptive Control of Traffic Congestion	Onassis Foundation	2016-2018	Principal Investigator
RECONFIG: Cognitive, Decentralized Coordination of Heterogeneous Multi-Robot Systems via Reconfigurable Task Planning	EU FP7-600825	2013-2016	Co-applicant & Technical Project Manager
HCUAV: Hellenic Civil Unmanned Air Vehicle	GSRT	2013-2015	Technical Project Manager
PANDORA: Persistent Autonomy through learnIng, aDaptation, Observation and ReplAnning	EU FP7-288273	2012-2015	Technical Project Manager
THE: The Hand Embodied	EU FP7-248587	2012-2014	Technical Project Manager
Neuro-adaptive Learning of Nonlinear Dynamics	Research Committee AUTH	2012	Principal Investigator

Published Work

My work has been published in recognized scientific journals and international conferences in the fields of automatic control, systems theory and robotics. The citations to my published work according to Google Scholar, excluding self-reports, are **2613** in total (July 2020) while the **h-index is 18** and the **i-10 index is 29**.

Journals:

- [J32] K. Alevizos, **C. P. Bechlioulis** and K. J. Kyriakopoulos, "Physical Human-Robot Cooperation based on Robust Motion Intention Estimation", *Robotica*, S.I.: Human-Robot Interaction, vol. 38, pp. 1842-1866, 2020.
- [J31] F. Mehdifar, **C. P. Bechlioulis**, F. Hashemzadeh and M. Baradarannia, "Prescribed Performance Distance-Based Formation Control of Multi-Agent Systems," *Automatica*, DOI: 10.1016/j.automatica.2020.109086, Jun 2020.
- [J30] S. Heshmati-Alamdari, **C. P. Bechlioulis**, G. C.Karras, and K. J. Kyriakopoulos, "Cooperative Impedance Control for Multiple Underwater Vehicle Manipulator Systems under Lean Communication," *IEEE Journal of Oceanic Engineering*, DOI: 10.1109/JOE.2020.2989603, Jun 2020.
- [J29] C. Stamouli, **C. P. Bechlioulis** and K. J. Kyriakopoulos, "Multi-agent Formation Control based on Distributed Estimation with Prescribed Performance," *IEEE Robotics and Automation Letters*, vol. 5, no. 2, pp. 2929-2934, 2020.
- [J28] I. Dimanidis, **C. P. Bechlioulis** and G. A. Rovithakis, "Output Feedback Model-Free Prescribed Performance Tracking Control for Uncertain MIMO Nonlinear Systems," *IEEE Transactions on Automatic Control*, DOI: 10.1109/TAC.2020.2970003, Jan 2020.
- [J27] P.Grontas, P. Vlantis, **C. P. Bechlioulis** and K. J. Kyriakopoulos, "Computationally Efficient Harmonic-based Reactive Exploration," *IEEE Robotics and Automation Letters*, vol. 5, no.2, pp. 2280-2285, 2020.
- [J26] **C. P. Bechlioulis**, F. Giagkas, G. C. Karras and K. J. Kyriakopoulos, "Robust Formation Control for Multiple Underwater Vehicles," *Frontiers in Robotics and AI*, 6:90, DOI: 10.3389/frobt.2019.00090, Sep 2019. **(1 citation)**
- [J25] **C. P. Bechlioulis**, S. Heshmati-Alamdari, G. C.Karras, and K. J. Kyriakopoulos, "Robust Image Based Visual Servoing with Prescribed Performance under Field of View Constraints," *IEEE Transactions on Robotics*, vol. 35, no. 4, pp. 1063-1070, 2019. **(4 citations)**
- [J24] G. Karras, P. Marantos, **C. P. Bechlioulis**, K. J. Kyriakopoulos, "Unsupervised On-line System Identification for Underwater Robotic Vehicles," *IEEE Journal of Oceanic Engineering*, vol. 44, no. 3, pp. 642-663, 2019. **(14 citations)**
- [J23] **C. P. Bechlioulis**, K. J. Kyriakopoulos, "Collaborative Multi-Robot Transportation in Obstacle-Cluttered Environments via Implicit Communication," *Frontiers in Robotics and AI*, 5:90, DOI: 10.3389/frobt.2018.00090, Aug 2018. **(2 citations)**
- [J22] S. Heshmati-Alamdari, **C. P. Bechlioulis**, G. C.Karras, A. Nikou, D. V. Dimarogonas and K. J. Kyriakopoulos, "A robust interaction control approach for underwater vehicle manipulator systems," *Annual Reviews in Control*, vol. 46, pp. 315-325, 2018. **(8 citations)**
- [J21] **C. P. Bechlioulis**, M. A. Demetriou and K. J. Kyriakopoulos, "A Distributed Control and Parameter Estimation Protocol with Prescribed Performance for Homogeneous Lagrangian Multi-agent Systems", *Autonomous Robots*, S.I.: Distributed Robotics: From Fundamentals to Applications, vol. 42, no. 8, pp. 1525-1541, 2018. **(6 citations)**
- [J20] C. Vrohidis, P. Vlantis, **C. P. Bechlioulis**, and K. J. Kyriakopoulos, "Prescribed Time Scale Robot Navigation", *IEEE Robotics and Automation Letters*, vol. 3, no. 2, pp. 1191-1198, 2018. **(7 citations)**
- [J19] I. Delimpaltadakis, **C. P. Bechlioulis**, and K. J. Kyriakopoulos, "Decentralized Platooning with Obstacle Avoidance for Car-like Vehicles with Limited Sensing", *IEEE Robotics and Automation Letters*, vol. 3, no. 2, pp. 835-840, 2018. **(9 citations)**
- [J18] C. Vrohidis, P. Vlantis, **C. P. Bechlioulis** and K. J. Kyriakopoulos, "Reconfigurable multi-robot coordination with guaranteed convergence in obstacle cluttered environments under local communication", *Autonomous Robots*, S.I.: Online Decision Making in Multi-Robot Coordination, vol. 42, no. 4, pp. 853-873, 2018. **(6 citations)**
- [J17] C. Verginis, **C. P. Bechlioulis**, D. V. Dimarogonas and K. J. Kyriakopoulos, "Robust Distributed Control Protocols for Large Vehicular Platoons with Prescribed Transient and Steady State Performance," *IEEE Transactions on Control Systems Technology*, vol. 26, no. 1, pp. 299-304, 2017. **(28 citations)**
- [J16] M. Liarokapis, **C. P. Bechlioulis**, P. Artemiadis, and K. J. Kyriakopoulos, "Deriving Humanlike Trajectories for Robot Arm Hand Systems," *Journal of Mechanisms and Robotics*, vol.9, pp. 1-9, 2017. **(5 citations)**
- [J15] P. Marantos, **C. P. Bechlioulis** and K. J. Kyriakopoulos, "Robust Trajectory Tracking Control for Small-scale Unmanned Helicopters with Model Uncertainties," *IEEE Transactions on Control Systems Technology*, vol. 15, no. 6, pp. 2010-2021, 2017. **(26 citations)**
- [J14] M. Guo, **C. P. Bechlioulis**, K. J. Kyriakopoulos and D. V. Dimarogonas, "Hybrid Control of Multi-agent Systems with Contingent Temporal Tasks and Prescribed Formation Constraints," *IEEE Transactions on Control of Network Systems*, vol. 4, no.4, pp. 781-792, 2017. **(5 citations)**
- [J13] **C. P. Bechlioulis** and G. A. Rovithakis, "Decentralized Robust Synchronization of Unknown High Order Nonlinear Multi-agent Systems with Prescribed Transient and Steady State Performance," *IEEE Transactions on Automatic Control*, vol. 62, no. 1, pp. 123-134, 2017. **(67 citations)**
- [J12] **C. P. Bechlioulis**, G. C. Karras, S. Heshmati-alamdari and K. J. Kyriakopoulos, "Trajectory Tracking with Prescribed Performance for Underactuated Underwater Vehicles under Model Uncertainties and External Disturbances," *IEEE Transactions on Control Systems Technology*, vol. 25, no. 2, pp. 429-440, 2017. **(68 citations)**
- [J11] N. Palomeras, A. Carrera, N. Hurtós, G. C. Karras, **C. P. Bechlioulis**, M. Cashmore, D. Magazzeni, D. Long, M. Fox, K. J. Kyriakopoulos, P. Kormushev, J. Salvi and M. Carreras, "Toward persistent autonomous intervention in a subsea panel," *Autonomous Robots*, vol. 40, pp. 1279-1306, 2016. **(33 citations)**
- [J10] **C. P. Bechlioulis** and G. A. Rovithakis, "A Low-Complexity Global Approximation-Free Control Scheme with Prescribed Performance for Unknown Pure Feedback Systems," *Automatica*, vol. 50, no. 4, pp. 1217-1226, 2014. **(210 citations)**
- [J9] **C. P. Bechlioulis** and G. A. Rovithakis, "Reinforcing Robustness of Adaptive Dynamic Surface Control," *International Journal of Adaptive Control and Signal Processing*, vol. 27, pp. 323-339, 2013. **(15 citations)**
- [J8] **C. P. Bechlioulis** and G. A. Rovithakis, "Robust Adaptive Fuzzy Control of Nonaffine Systems Guaranteeing Transient and Steady State Error Bounds," *International Journal of Adaptive Control and Signal Processing*, vol. 26, pp. 576-591, 2012. **(12 citations)**
- [J7] **C. P. Bechlioulis** and G. A. Rovithakis, "A priori Guaranteed Evolution within the Neural Network Approximation Set and Robustness Expansion via Prescribed Performance Control," *IEEE Transactions on Neural Networks and Learning Systems*, vol. 23, no. 4, pp. 669-675, 2012. **(33 citations)**
- [J6] **C. P. Bechlioulis**, Z. Dougeri, and G. A. Rovithakis, "Guaranteeing Prescribed Performance and Contact Maintenance via an Approximation Free Robot Force/Position Controller," *Automatica*, vol. 48, pp. 360-365, 2012. **(51 citations)**
- [J5] **C. P. Bechlioulis** and G. A. Rovithakis, "Robust Partial-State Feedback Prescribed Performance Control of Cascade Systems with Unknown Nonlinearities," *IEEE Transactions on Automatic Control*, vol. 56, no. 9, pp. 2224-2230, 2011. **(98 citations)**
- [J4] **C. P. Bechlioulis**, Z. Dougeri, and G. A. Rovithakis, "Neuro-adaptive force/position control with prescribed performance and guaranteed contact maintenance," *IEEE Transactions on Neural Networks*, vol. 21, no. 12, pp. 1857-1868, 2010. **(79 citations)**
- [J3] **C. P. Bechlioulis** and G. A. Rovithakis, "Prescribed performance adaptive control for multi-input multi-output affine in the control nonlinear systems," *IEEE Transactions on Automatic Control*, vol. 55, no. 5, pp. 1220-1226, 2010. **(218 citations)**

- [J2] C. P. Bechlioulis and G. A. Rovithakis, "Adaptive control with guaranteed transient and steady state tracking error bounds for strict feedback systems," *Automatica*, vol. 45, no. 2, pp. 532-538, 2009. **(486 citations)**
- [J1] C. P. Bechlioulis and G. A. Rovithakis, "Robust adaptive control of feedback linearizable mimo nonlinear systems with prescribed performance," *IEEE Transactions on Automatic Control*, vol. 53, no. 9, pp. 2090-2099, 2008. **(643 citations)**
- Conferences:**
- [C53] P. Rousseas, C. P. Bechlioulis, K. J. Kyriakopoulos, "Optimal Robot Motion Planning in Constrained Workspaces using Reinforcement Learning", in *2020 IEEE/RSJ International Conference on Robots and Systems*, Las Vegas, USA, October 25-29, 2020.
- [C52] G. C. Karras, C. P. Bechlioulis, G. K. Fourlas, K. J. Kyriakopoulos, "Target Tracking with Multi-Rotor Aerial Vehicles Based on a Robust Visual Servo Controller with Prescribed Performance", in *2020 International Conference on Unmanned Aircraft Systems*, Athens, Greece, June 9-12, 2020.
- [C51] G. C. Karras, C. P. Bechlioulis, G. K. Fourlas, K. J. Kyriakopoulos, "Formation Control and Target Interception for Multiple Multi-Rotor Aerial Vehicles", in *2020 International Conference on Unmanned Aircraft Systems*, Athens, Greece, June 9-12, 2020.
- [C50] C. Stamouli, C. P. Bechlioulis, K. J. Kyriakopoulos, "Multi-agent Formation Control based on Distributed Estimation with Prescribed Performance," in *2020 IEEE International Conference on Robotics and Automation*, Paris, France, May 31 - August 31, 2020.
- [C49] C. Stamouli, C. P. Bechlioulis, K. J. Kyriakopoulos, "Robust Dynamic Average Consensus with Prescribed Performance", in *2019 IEEE Conference on Decision and Control*, Nice, France, pp. 5420-5425, 2019.
- [C48] C. P. Bechlioulis, L. Dritsas, K. J. Kyriakopoulos, "Decentralized Load Frequency Control with Prescribed Performance for Interconnected Power Systems", in *2019 IEEE Conference on Decision and Control*, Nice, France, pp. 8410-8415, 2019.
- [C47] F. Mehdifar, C. P. Bechlioulis, F. Hashemzadeh, M. Baradarannia, "Distance-Based Formation Control with Prescribed Performance", in 38th Benelux Meeting on Systems and Control, Lommel, Belgium, 2019 (extended abstract).
- [C46] C. Verginis, C. Vrohidis, C.P.Bechlioulis, D.V.Dimarogonas and K.J.Kyriakopoulos, "Reconfigurable Motion Planning and Control in Obstacle Cluttered Environments under Timed Temporal Tasks", in 2019 *IEEE International Conference on Robotics and Automation*, Montreal, Canada, pp. 951-957, 2019. **(2 citations)**
- [C45] P. Vlantis, C. Vrohidis, C. P. Bechlioulis, K. J. Kyriakopoulos, "Orientation Aware Motion Planning in Complex Workspaces using Adaptive Harmonic Potential Fields", in *2019 IEEE International Conference on Robotics and Automation*, Montreal, Canada, pp. 8592-8598, 2019. **(1 citation)**
- [C44] S. Heshmati-Alamdari, C. P. Bechlioulis, G. C.Karras, K. J. Kyriakopoulos, "Decentralized Impedance Control for Cooperative Manipulation of Multiple Underwater Vehicle Manipulator Systems under Lean Communication", in *2018 IEEE OES Autonomous Underwater Vehicle Symposium*, Porto, Portugal, DOI: 10.1109/AUV.2018.8729687, 2018. **(4 citations)**
- [C43] C. P. Bechlioulis, K. J. Kyriakopoulos "Neuro-Adaptive Traffic Congestion Control for Urban Road Networks", in *2018 European Control Conference*, Limassol, Cyprus, pp. 1685-1690, 2018.
- [C42] C. Vrohidis, P. Vlantis, C. P. Bechlioulis, K. J. Kyriakopoulos, "Prescribed Time Scale Robot Navigation in Dynamic Environments", in *2018 European Control Conference*, Limassol, Cyprus, pp. 1803-1808, 2018. **(3 citations)**
- [C41] C. Mavridis, K. Alevizos, C. P. Bechlioulis, K. J. Kyriakopoulos, "Human-Robot Collaboration based on Robust Motion Intention Estimation with Prescribed Performance", in *2018 European Control Conference*, Limassol, Cyprus, pp. 249-254, 2018. **(1 citation)**
- [C40] P. Vlantis, C. Vrohidis, C. P. Bechlioulis, K. J. Kyriakopoulos "Robot Navigation in Complex Workspaces Using Harmonic Maps", in *2018 IEEE International Conference on Robotics and Automation*, Brisbane, Australia, pp. 1726-1731, 2018. **(7 citations)**
- [C39] C. Vrohidis, C. P. Bechlioulis, K. J. Kyriakopoulos, "Decentralized Reconfigurable Multi-Robot Coordination from Local Connectivity and Collision Avoidance Specifications", in *2017 IFAC World Congress*, Toulouse, France, pp.15798-15803, 2017. **(1 citation)**
- [C38] C. Vrohidis, C. P. Bechlioulis, K. J. Kyriakopoulos, "Safe Decentralized and Reconfigurable Multi-agent Control with Guaranteed Convergence", in *2017 IEEE International Conference on Robotics and Automation*, Singapore, Singapore, pp. 267-272, 2017. **(1 citation)**
- [C37] C. P. Bechlioulis, M. A. Demetriou, K. J. Kyriakopoulos, "Distributed Control and Parameter Estimation for Homogeneous Lagrangian Multi-agent Systems", in *2016 IEEE Conference on Decision and Control*, Las Vegas, USA, pp. 933-938, 2016. **(1 citation)**
- [C36] P. Vlantis, C. P. Bechlioulis, G. Karras, G. K. Fourlas, K. J. Kyriakopoulos "Fault Tolerant Control for Omni-directional Mobile Platforms with 4 Mecanum Wheels", in *2016 IEEE International Conference on Robotics and Automation*, Stockholm, Sweden, pp. 2395-2400, 2016. **(13 citations)**
- [C35] C. Verginis, C. P. Bechlioulis, D. V. Dimarogonas, K. J. Kyriakopoulos "Decentralized 2-D Control of Vehicular Platoons under Limited Visual Feedback", in *2015 IEEE/RSJ International Conference on Intelligent Robots and Systems*, Hamburg, Germany, pp. 3566-3571, 2015. **(5 citations)**
- [C34] A. Tsiamis, J. Tumova, C. P. Bechlioulis, G. Karras, D. V. Dimarogonas, K. J. Kyriakopoulos "Decentralized Leader-Follower Control under High Level Goals without Explicit Communication", in *2015 IEEE/RSJ International Conference on Intelligent Robots and Systems*, Hamburg, Germany, pp. 5790-5795, 2015. **(5 citations)**
- [C33] A. Tsiamis, C. Verginis, C. P. Bechlioulis, K. J. Kyriakopoulos "Cooperative Manipulation Exploiting only Implicit Communication", in *2015 IEEE/RSJ International Conference on Intelligent Robots and Systems*, Hamburg, Germany, pp. 864-869, 2015. **(25 citations)**
- [C32] R. Muthusamy, C. P. Bechlioulis, K. J. Kyriakopoulos, V. Kyrki, "Task Specific Cooperative Grasp Planning for Decentralized Multi-Robot Systems", in *2015 IEEE International Conference on Robotics and Automation*, Seattle, Washington, USA, pp. 6066-6071, 2015. **(8 citations)**
- [C31] A. Tsiamis, C. P. Bechlioulis, G. Karras, K. J. Kyriakopoulos, "Decentralized Object Transportation by Two Non-holonomic Mobile Robots Exploiting Only Implicit Communication", in *2015 IEEE International Conference on Robotics and Automation*, Seattle, Washington, USA, pp. 171-176, 2015. **(5 citations)**
- [C30] P. Vlantis, P. Marantos, C. P. Bechlioulis, K. J. Kyriakopoulos, "Quadrotor Landing on an Inclined Platform of a Moving Ground Vehicle", in *2015 IEEE International Conference on Robotics and Automation*, Seattle, Washington, USA, pp. 2202-2207, 2015. **(33 citations)**
- [C29] P. Marantos, G. Karras, C. P. Bechlioulis, K. J. Kyriakopoulos, "Autonomous Model-Free Landing Control of Small-Scale Flybarless Helicopters", in *2015 IEEE International Conference on Robotics and Automation*, Seattle, Washington, USA, pp. 5272-5277, 2015. **(3 citations)**
- [C28] C. P. Bechlioulis, K. J. Kyriakopoulos, "Robust Model-Free Formation Control with Prescribed Performance for Nonlinear Multi-Agent Systems", in *2015 IEEE International Conference on Robotics and Automation*, Seattle, Washington, USA, pp. 1268-1273, 2015. **(6 citations)**
- [C27] C. P. Bechlioulis, D. V. Dimarogonas, K. J. Kyriakopoulos, "Robust Control of Large Vehicular Platoons with Prescribed Transient and Steady State Performance" in *2014 IEEE Conference on Decision and Control*, Los Angeles, California, USA, pp. 3689-3694, 2014. **(9 citations)**
- [C26] C. P. Bechlioulis, K. J. Kyriakopoulos, "Robust Model-Free Formation Control with Prescribed Performance and Connectivity Maintenance for Nonlinear Multi-Agent Systems" in *2014 IEEE Conference on Decision and Control*, Los Angeles, California, USA, pp. 4509-4514, 2014. **(17 citations)**
- [C25] G. Boutselis, C. P. Bechlioulis, M. Liarakapis and K. J. Kyriakopoulos "Task Specific Robust Grasping For Multi-fingered Robot Hands", in *2014 IEEE/RSJ International Conference on Intelligent Robots and Systems*, Chicago, Illinois, pp. 858-863, 2014. **(13 citations)**

- [C24] N. Hurtos, N. Palomerias, M. Carreras, A. Carrera, **C. P. Bechlioulis**, G. Karras, S. Heshmati-alamdari, K. J. Kyriakopoulos “Sonar-based Chain Following using an Autonomous Underwater Vehicle”, in 2014 IEEE/RSJ International Conference on Intelligent Robots and Systems, Chicago, Illinois pp. 1978-1983, 2014. **(9 citations)**
- [C23] S. Heshmati-alamdari, **C. P. Bechlioulis**, M. Liarokapis and K. J. Kyriakopoulos “Prescribed Performance Image Based Visual Servoing under Field of View Constraints”, in 2014 IEEE/RSJ International Conference on Intelligent Robots and Systems, Chicago, Illinois, pp. 2721-2726, 2014. **(9 citations)**
- [C22] **C. P. Bechlioulis**, M. Liarokapis and K. J. Kyriakopoulos “Robust Model Free Control of Robotic Manipulators with Prescribed Transient and Steady State Performance”, in 2014 IEEE/RSJ International Conference on Intelligent Robots and Systems, Chicago, Illinois, pp. 41-46, 2014. **(16 citations)**
- [C21] P. Marantos, A. Eqtami, **C. P. Bechlioulis** and K. J. Kyriakopoulos, “A Prescribed Performance Robust Nonlinear Model Predictive Control Framework”, in 2014 IEEE European Control Conference, Strasbourg, France, pp. 2182-2187, 2014. **(1 citation)**
- [C20] G. Boutselis, **C. P. Bechlioulis**, M. Liarokapis, K. Kyriakopoulos, “An Integrated Approach towards Robust Grasping with Tactile Sensing”, in 2014 IEEE International Conference on Robotics and Automation, Hong Kong, China, pp. 3682-3687, 2014. **(5 citations)**
- [C19] P. Marantos, **C. P. Bechlioulis**, K. Kyriakopoulos, “Robust Stabilization Control of Unknown Small-Scale Helicopters”, in 2014 IEEE International Conference on Robotics and Automation, Hong Kong, China, pp. 537-542, 2014. **(4 citations)**
- [C18] G. Karras, **C. P. Bechlioulis**, S. Nagappa, N. Palomerias, K. Kyriakopoulos, M. Carreras, “Motion Control for Autonomous Underwater Vehicles: A Robust Model - Free Approach”, in 2014 IEEE International Conference on Robotics and Automation, Hong Kong, China, pp. 6529-6534, 2014. **(2 citations)**
- [C17] C. Mavrogiannis, **C. P. Bechlioulis**, M. Liarokapis, K. Kyriakopoulos, “Task-Specific Grasp Selection for Under-actuated Hands”, in 2014 IEEE International Conference on Robotics and Automation, Hong Kong, China, pp. 3676-3681, 2014. **(11 citations)**
- [C16] F. Maurelli, T. Larkworthy, D. Lane, G.C. Karras, **C. P. Bechlioulis**, K. J. Kyriakopoulos, “Pose-based and velocity-based approaches to autonomous inspection of subsea structures”, in 2013 IEEE-MTS Oceans, San Diego, USA, DOI: 10.23919/OCEANS.2013.6741177, 2013. **(1 citation)**
- [C15] **C. P. Bechlioulis**, A. Theodorakopoulos, G. A. Rovithakis, “Output Feedback Stabilization with Prescribed Performance for Uncertain Nonlinear Systems in Canonical Form”, in 2013 IEEE Conference on Decision and Control, Florence, Italy, pp. 5084-5089, 2013. **(8 citations)**
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