

## CURRICULUM VITAE

### MICHAEL SFAKIOTAKIS, PHD

Associate Professor

Department of Electrical and Computer Engineering,  
School of Engineering, Hellenic Mediterranean University (HMU),  
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#### EDUCATION

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- [1997-2001]** *PhD in Electrical Engineering*, Heriot-Watt University, Edinburgh, UK.  
*Thesis Title:* Development and evaluation of an experimental undulating-fin device using the parallel bellows actuator
- [1995-1996]** *MSc in Communications, Control and DSP*, Strathclyde University, Glasgow, UK.  
*Dissertation:* Fuzzy logic controller design for a laser scanner system
- [1989-1995]** *Diploma in Electrical Engineering*, Aristotle University of Thessaloniki, Greece.  
*Dissertation:* Digital equalization for loudspeakers

#### PROFESSIONAL APPOINTMENTS

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- [2019 – today]** *Associate Professor*  
Dept. of Electrical and Computer Engineering, School of Engineering,  
Hellenic Mediterranean University (HMU), Heraklion, Greece.
- [2019 – today]** *Head of Interdepartmental Laboratory*  
Control Systems and Robotics Laboratory, School of Engineering,  
Hellenic Mediterranean University (HMU), Heraklion, Greece.
- [2018 – today]** *Postgraduate Program Director*  
MSc in Advanced Manufacturing Systems, Automation and Robotics,  
School of Engineering, Hellenic Mediterranean University (HMU), Heraklion, Greece.
- [2017 – 2019]** *Associate Professor*  
Dept. of Electrical Engineering, School of Applied Technology,  
Technological Educational Institute of Crete (TEI Crete), Heraklion, Greece.
- [2008 – 2018]** *Affiliated Researcher*,  
Computational Vision & Robotics Laboratory, Institute of Computer Science,  
Foundation for Research and Technology - Hellas (FORTH-ICS), Heraklion, Greece.
- [2008 – 2016]** *Assistant Professor*  
Dept. of Electrical Engineering, School of Applied Technology,  
Technological Educational Institute of Crete (TEI Crete), Heraklion, Greece.
- [2003 – 2008]** *Adjunct Assistant Professor*,  
Dept. of Mechanical Engineering, School of Applied Technology,  
Technological Educational Institute of Crete (TEI Crete), Heraklion, Greece.

[2002 – 2008] *Postdoctoral Research Associate*,  
Computational Vision & Robotics Laboratory, FORTH-ICS, Heraklion, Greece.

[1997 – 2000] *Research Associate*,  
Ocean Systems Laboratory, Dept. of Computing and Electrical Engineering,  
Heriot-Watt University, Edinburgh, UK.

## TEACHING ACTIVITIES

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Postgraduate courses - MSc in Advanced Manufacturing Systems, Automation and Robotics, HMU:

- Dynamics & Control (Theory - Laboratory) [*designed full course*]
- Embedded Control Systems (Theory - Laboratory) [*designed full course*]

Undergraduate courses - Dept. of Electrical & Computer Engineering, HMU:

- Automatic Control Systems I (Theory - Laboratory) [*designed full course*]
- Applied Digital Control (Theory - Laboratory) [*designed full course*]
- Robotics I (Theory)
- PCB Fabrication Laboratory

Undergraduate courses - Dept. of Electrical Engineering, TEI Crete:

- Automatic Control Systems II (Theory - Laboratory) [*designed full course*]
- Microcontrollers (Theory - Laboratory) [*designed full course*]
- Electrical and Electronic Circuit Design and Fabrication (Laboratory)
- Industrial Automation (Laboratory)
- Measurement Technology (Laboratory)

Undergraduate courses for Erasmus students - Dept. of Electrical Engineering, TEI Crete:

- Automatic Control Systems II (Theory - Laboratory) [*designed full course*]
- Microprocessors (Theory - Laboratory) [*designed full course*]

Undergraduate courses - Dept. of Mechanical Engineering, TEI Crete:

- Microcontroller Applications (Theory - Laboratory) [*designed full course*]
- Robotics (Theory)
- Mechatronics Design (Theory)

Thesis supervision

- Supervisor of 1 PhD thesis – Dept. of Electrical & Computer Engineering, HMU
- Supervisor of 12 Masters' theses – MSc in Advanced Manufacturing Systems, Automation and Robotics
- Supervisor of 30 undergraduate theses – Dept. of Electrical Engineering, TEI Crete

## RESEARCH INTERESTS

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- Modeling, control and prototyping of bio-inspired robotic locomotion systems
- Robotics in precision agriculture

- Micro-robotics for medical applications
- Design and control of biomimetic actuation mechanisms
- Development of simulation tools for robotics
- Real-time control system design and implementation
- Visual servoing control strategies
- Control of under-actuated robots

## **PARTICIPATION IN RESEARCH PROJECTS**

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- [2021 – 2023] *Remote LIBS for real-time field assessment of the operational characteristics of polymeric insulators on high voltage power transmission lines* ([POWERLIBS](#))  
Funding: NSRF/GSRT Competitiveness, Entrepreneurship and Innovation - Total budget : € 880K
- [2019 – 2021] *Emblematic action for research in the Cretan agri-food sector* ([AGRO4CRETE](#))  
Funding: GSRT - Total budget : € 900K
- [2018 – 2021] *Soilless culture upgrade* ([SOUP](#))  
Funding: NSRF/GSRT Competitiveness, Entrepreneurship and Innovation - Total budget: € 1M
- [2018 – 2021] *Promoting coding and STEM skills through robotics: supporting primary schools to develop inclusive digital strategies for all* ([CODESKILLS4ROBOTICS](#))  
Funding: Erasmus+ Programme - Total budget : € 311K
- [2012 – 2015] *Development of a biomimetic underwater robot with undulating-fin propulsion* ([SQUIDBOT](#))  
Funding: NSRF/GSRT Archimedes III Programme - Total budget : € 100K
- [2012 – 2015] *Biomimetic legged robots operating in rough environments* ([BIOLEGROB](#))  
Funding: NSRF/GSRT Thales Programme - Total budget : € 600K
- [2009 – 2013] *Novel design principles and technologies for a new generation of high dexterity soft-bodied robots inspired by the morphology and behaviour of the octopus* ([OCTOPUS](#))  
Funding: Seventh Framework Programme (FP7-231608) - Total budget : € 9.74M
- [2006 – 2011] *Versatile endoscopic capsule for gastrointestinal tumor recognition and therapy* ([VECTOR](#))  
Funding: Sixth Framework Programme (FP6/IST-033970) - Total budget : € 7,04M
- [2006] *Observational learning in cognitive agents* ([MATHESIS](#))  
Funding: Sixth Framework Programme (FP6/IST-0275) - Total budget: € 2.25M
- [2006] *An abstraction architecture for cognitive agents* ([GNOSYS](#))  
Funding: Sixth Framework Programme (FP6/IST-003835) - Total budget: € 2.13M
- [2002 – 2005] *Biomimetic structures for locomotion in the human body* ([BIOLOCH](#))  
Funding: Fifth Framework Programme (FP5/IST.2001.34181) - Total budget: € 1.65M
- [1997-1999] *Flexible appendage for positioning and stabilisation* ([FLAPS](#))  
Funding: UK's EPSRC (GR/L2921) - Total budget: £ 1.65M

## HONOURS & AWARDS

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- Participation in the VECTOR EU-IST project, which received the Best Exhibit Award at the ICT 2010 Event, organized by the European Commission, Brussels 27-29 September 2010.
- Co-chair of the «Biologically-Inspired Systems» session at the IEEE Mediterranean Conference on Control and Automation (MED'16), Athens, Greece, June 2016.
- Co-chair of the «Biologically-Inspired Robots 3» session at the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS'15), Hamburg, Germany, September 2015.
- Co-chair of the «Biologically Inspired Robot I» session at the IEEE Int. Conf. on Robotics and Biomimetics (ROBIO'08), Bangkok, Thailand, February 2009.
- Participation in the «Robot Submarines» exhibition, held in the London Science Museum (June 2000 – March 2001), with a prototype undulating-fin actuator, developed during my Ph.D. research.
- Best paper award finalist at the IROS'15 Conference [P25].
- Best control paper award at the ICUMT'15 Conference [P26].
- Best paper award at the NHIBE'15 Conference [P23].
- Best paper award finalist at the IROS'14 Conference [P22].
- Best application paper award at the RAAD'13 Conference [P19].
- Best paper award at the Eurosensors XXIV Conference [P13].
- Best presentation award at the CNS\*2004 Conference [A2].
- M.Sc. degree awarded *With Distinction*.
- Undergraduate Scholarship, State Scholarships Foundation, Greece, 1989-1990.

## REVIEWER ACTIVITIES

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- *Journals*: IEEE Transactions on Robotics, IEEE Journal of Oceanic Engineering, IEEE Robotics & Automation Letters, Ocean Engineering, Mechatronics, Science Robotics, Proceedings of the Royal Society A.
- *Conferences*: IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS), IEEE Int. Conf. on Robotics and Automation (ICRA), IEEE Mediterranean Conf. on Control and Automation (MED), IEEE Int. Conf. on Decision and Control (CDC), IEEE Int. Conf. on Biomedical Robotics and Biomechatronics (BIOROB), IEEE Int. Conf. on Soft Robotics (RoboSoft), IEEE Int. Conf. on BioInformatics and BioEngineering (BIBE), European Control Conference (ECC), IFAC World Congress, Int. Conf. on Artificial Neural Networks.

## CITATIONS

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The current number of citations (excluding self-citations) for the publications listed below is **2610**, with an ***h-index*** of **18** (March 2021 data, source: [Google Scholar](#)).

## PUBLICATIONS

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### Journal Papers

- J11** M. Sfakiotakis, A. Kazakidi, and D. P. Tsakiris (2015), Octopus-inspired multi-arm robotic swimming. *Bioinspiration and Biomimetics*, vol. 10(3), 035005 [22 pages].

- J10** M. Sfakiotakis, J. Fasoulas, M. M. Kavoussanos, and M. Arapis (2015), Experimental investigation and propulsion control for a bio-inspired undulatory robotic fin. *Robotica*, vol. 33(5), pp. 1062–1084.
- J9** M. Sfakiotakis, N. Pateromichelakis, and D. P. Tsakiris (2014), Vibration-induced frictional reduction in miniature intracorporeal robots. *IEEE Transactions on Robotics*, vol. 30(5), pp. 1210–1221.
- J8** J. Fasoulas and M. Sfakiotakis (2014), Modeling and grasp stability analysis for object manipulation by soft rolling fingertips. *International Journal of Humanoid Robotics*, vol 11(3), 1450020 [30 pages].
- J7** G. Ciuti, N. Pateromichelakis, M. Sfakiotakis, P. Valdastrì, A. Menciassi, D.P. Tsakiris, P. Dario (2012), A wireless module for vibratory motor control and inertial sensing in capsule endoscopy. *Sensors and Actuators A: Physical*, vol 186, 270–276.
- J6** R. Carta, M. Sfakiotakis, N. Pateromichelakis, J. Thoné, D.P. Tsakiris and R. Puers (2011). A multi-coil inductive powering system for an endoscopic capsule with vibratory actuation. *Sensors and Actuators A: Physical*, vol 172(1), 253–258.
- J5** G. La Spina, M. Sfakiotakis, D.P. Tsakiris, A. Menciassi and P. Dario (2007). Polychaete-like undulatory robotic locomotion in unstructured substrates. *IEEE Transactions on Robotics*, vol 6(11-12), pp. 1200–1212.
- J4** M. Sfakiotakis and D.P. Tsakiris (2007). Biomimetic centering behavior for undulatory robots. *International Journal of Robotics Research*, vol 26(11-12), pp. 1267–1282.
- J3** M. Sfakiotakis and D.P. Tsakiris (2007). Neuromuscular control of reactive behaviors for undulatory robots. *Neurocomputing*, vol 70(10-12), pp. 1907–1913.
- J2** M. Sfakiotakis and D.P. Tsakiris (2006). SIMUUN: A simulation environment for undulatory locomotion. *International Journal of Modelling and Simulation*, vol 26(4), pp. 4430–4464.
- J1** M. Sfakiotakis, D.M. Lane, and J.B.C. Davies (1999). Review of fish swimming modes for aquatic locomotion. *IEEE Journal of Oceanic Engineering*, vol 24(2), pp. 237–252.

#### Refereed Papers in International Conferences

- P32** C. Chrysoulakis, J. Fasoulas, and M. Sfakiotakis, (2021), Development and initial evaluation of a multi-purpose spraying robot prototype, *IEEE Int. Conf. on Advanced Robotics (ICAR'21)*, pp. 384–389, Ljubljana, Slovenia.
- P31** N. Kounalakis, M. Kalykakis, M. Pettas, A. Makris, M.M. Kavoussanos, M. Sfakiotakis, and J. Fasoulas (2021), Development of a Tomato Harvesting Robot: Peduncle Recognition and Approaching, *3rd Int. Congr. on Human-Computer Interaction, Optimization and Robotic Applications (HORA'21)*, pp. 1-6, Ankara, Turkey.
- P30** R. Gliva, M. Sfakiotakis, and M. Kruusma, (2018), Development and experimental assessment of a flexible robot fin, *IEEE Int. Conf. on Soft Robotics (RoboSoft'18)*, pp. 208-213, Livorno, Italy.
- P29** M. Sfakiotakis, R. Gliva, and M. Mountoufaris, (2016), Steering-plane motion control for an underwater robot with a pair of undulatory fin propulsors, *IEEE Mediterranean Conf. on Control and Automation (MED'16)*, pp. 496-503, Athens, Greece.

- P28** M. Sfakiotakis, A. Chatzidaki, T. Evdaimon, A. Kazakidi, and D. P. Tsakiris, (2016), Effects of compliance in pedundulatory locomotion over granular substrates, *IEEE Mediterranean Conf. on Control and Automation (MED'16)*, pp. 532-538, Athens, Greece.
- P27** R. Gliva, M. Mountoufaris, M. Kavoussanos, K. Dedousis, and M. Sfakiotakis (2015), Motion control for an underwater robot with undulatory fin propulsion, *Int. Conf. on Science in Technology (SCinTE'15)*, 225-A02-144 [6 pages], Athens, Greece.
- P26** M. Sfakiotakis, J. Fasoulas, R. Gliva, and A. Yannakoudakis (2015), Model-based fin ray joint tracking control for undulatory fin mechanisms, *IEEE Int. Congr. on Ultra Modern Telecommunications and Control Systems (ICUMT'15)*, pp. 158-165, Brno, Czech Republic. [*Best Control Paper Award*]
- P25** M. Sfakiotakis, J. Fasoulas, and R. Gliva (2015), Dynamic modeling and experimental analysis of a two-ray undulatory fin robot, *IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS'15)*, pp. 339-346, Hamburg, Germany. [*Best Paper award finalist*]
- P24** M. Sfakiotakis, A. Kazakidi, A. Chatzidaki, T. Evdaimon, and D. P. Tsakiris (2015), Multi-arm robotic swimmer actuated by antagonistic SMA springs, *IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS'15)*, pp. 1540-1545, Hamburg, Germany.
- P23** R. Gliva, M. Mountoufaris, N. Spyridakis, and M. Sfakiotakis (2015), Development of a bio-inspired underwater robot prototype with undulatory fin propulsion, *9<sup>th</sup> Int. Conf. on New Horizons in Industry, Business and Education (NHIBE'15)*, pp. 81-86, Skiathos, Greece. [*Best Paper award*]
- P22** M. Sfakiotakis, A. Kazakidi, A. Chatzidaki, T. Evdaimon, and D. P. Tsakiris (2014), Multi-arm robotic swimming with octopus-inspired compliant web, *IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS'14)*, pp. 302-308, Chicago (Illinois), USA. [*Best Paper Award finalist* and *JTCF Novel Technology Paper Award for Amusement Culture finalist*]
- P21** M. Sfakiotakis and J. Fasoulas, (2014), Development and experimental validation of a model for the membrane restoring torques in undulatory fin mechanisms, *IEEE Mediterranean Conf. on Control and Automation (MED'14)*, pp. 1540-1546, Palermo, Italy.
- P20** T. Evdaimon, M. Sfakiotakis and D. P. Tsakiris, (2014), A closed-loop position control scheme for SMA-Actuated Joints, *IEEE Mediterranean Conf. on Control and Automation (MED'14)*, pp. 1527-1532, Palermo, Italy.
- P19** M. Sfakiotakis, M. Arapis, N. Spyridakis, and J. Fasoulas, (2013), Development and experimental evaluation of an undulatory fin prototype, *22nd Int. Workshop on Robotics in Alpe-Adria-Danube Region (RAAD'13)*, pp. 280-287, Portorož, Slovenia. [*Best Application Paper Award*]
- P18** M. Sfakiotakis, A. Kazakidi, and D. P. Tsakiris, (2013), Turning maneuvers of an octopus-inspired multi-arm robotic swimmer, *IEEE Mediterranean Conf. on Control and Automation (MED'13)*, pp. 1343 - 1349, Chania, Greece.

- P17** M. Sfakiotakis, A. Kazakidi, N. Pateromichelakis, and D. P. Tsakiris, (2013), Octopus-inspired eight-arm robotic swimming by sculling movements, *IEEE Int. Conf. on Robotics and Automation (ICRA'13)*, pp. 5135-5141, Karlsruhe, Germany.
- P16** J. Fasoulas and M. Sfakiotakis (2012), Modeling and control for object manipulation by a two-d.o.f. robotic hand with soft fingertips, *10<sup>th</sup> Int. IFAC Symp. on Robot Control (SYROCO'12)*, pp. 259-264, Dubrovnik, Croatia.
- P15** M. Sfakiotakis, A. Kazakidi, N. Pateromichelakis, J.A. Ekaterinaris, D.P. Tsakiris, (2012), Robotic underwater propulsion inspired by the octopus multi-arm swimming, *IEEE Int. Conf. on Robotics and Automation (ICRA'12)*, pp. 3833-3839, St. Paul (Minnesota), USA.
- P14** G. Ciuti, N. Pateromichelakis, M. Sfakiotakis, P. Valdastrì, A. Menciassi, D.P. Tsakiris, P. Dario (2011), "A wireless module for vibratory motor control and inertial sensing in capsule endoscopy", *Euroensors XXV*, pp. 92–95, Athens, Greece.
- P13** R. Carta, N. Pateromichelakis, J. Thone, M. Sfakiotakis, D.P. Tsakiris and R. Puers, (2010), "A Wireless Powering System for a Vibratory-Actuated Endoscopic Capsule", *Proc. Euroensors XXIV*, pp. 572–575, Linz, Austria.
- P12** G. López-Nicolás, M. Sfakiotakis, D.P. Tsakiris, A.A. Argyros, C. Sagues and J. J. Guerrero (2009). Visual homing for undulatory robotic locomotion. *Proc. IEEE Int. Conf. on Robotics and Automation (ICRA'09)*, pp. 2629–2636, Kobe, Japan.
- P11** M. Sfakiotakis and D.P. Tsakiris (2009). Undulatory and pedundulatory robotic locomotion via direct and retrograde body waves. *Proc. IEEE Int. Conf. on Robotics and Automation (ICRA'09)*, pp. 3457–3463, Kobe, Japan.
- P10** M. Sfakiotakis and D.P. Tsakiris (2008). Pedundulatory robotic locomotion: Centipede and polychaete modes in unstructured substrates. *Proc. IEEE Int. Conf. on Robotics and Biomimetics (ROBIO'08)*, pp. 651–658, Bangkok, Thailand.
- P9** X. Zabulis, M. Sfakiotakis, and D.P. Tsakiris (2008). Effects of vibratory actuation on endoscopic capsule vision. *Proc. IEEE Int. Conf. of the Engineering in Medicine and Biology Society (EMBC'08)*, pp. 5901–5904, Vancouver, Canada.
- P8** M. Sfakiotakis, D.P. Tsakiris, and K. Karakasiliotis (2007). Polychaete-like pedundulatory robotic locomotion. *Proc. IEEE Int. Conf. on Robotics and Automation (ICRA'07)*, pp. 269–274, Roma, Italy.
- P7** M. Sfakiotakis, D.P. Tsakiris, and A. Vlaikidis (2006). Biomimetic centering for undulatory robots. *Proc. 1st IEEE/RAS-EMBS Int. Conf. on Biomedical Robotics and Biomechanics (BioRob'06)*, pp. 744–749, Pisa, Italy.
- P6** D.P. Tsakiris, M. Sfakiotakis, A. Menciassi, G. La Spina, and P. Dario (2005). Polychaete-like undulatory robotic locomotion. *Proc. IEEE Int. Conf. on Robotics and Automation (ICRA'05)*, pp. 3029–3034, Barcelona, Spain.
- P5** M. Sfakiotakis and D.P. Tsakiris (2004). A simulation environment for undulatory locomotion. *Proc. IASTED Int. Conf. on Applied Simulation and Modelling (ASM'04)*, pp. 154–159, Rhodes, Greece.

- P4** M. Sfakiotakis, D.M. Lane, and J.B.C. Davies (2001). An experimental undulating-fin device using the Parallel Bellows Actuator. *Proc. IEEE Int. Conf. on Robotics and Automation (ICRA'01)*, pp. 2356—2362, Seoul, Korea, 2001.
- P3** M. Sfakiotakis, D.M. Lane, and J.B.C. Davies (2000). Development of a ‘fin actuator’ for the investigation of undulating fin propulsion. *Proc. 1st Int. Symp. on Aqua Bio-Mechanisms (ISABMEC'00)*, pp. 265—270, Honolulu, USA.
- P2** J.B.C. Davies, D.M. Lane, G.C. Robinson, D.J. Obrien, M. Pickett, M. Sfakiotakis, and B. Deacon (1998). Subsea applications of continuum robots. *Proc. Int. Symp. on Underwater Technology*, pp. 363—369, Tokyo, Japan.
- P1** M. Sfakiotakis, A.W. Ordys, and L. Petropoulakis (1998). Fuzzy logic controller design for a laser scanner system. *Proc. 5th IEEE Int. Worksh. on Advanced Motion Control (AMC'98)*, pp. 659—665, Coimbra, Portugal.

#### Refereed Papers in National (Greek) Conferences

- G4** M. Tsakiris and M. Sfakiotakis (2010). Control of an underactuated robotic system (pendubot). *Proc. 2<sup>nd</sup> Hellenic Conference on Robotics*, Patras, Greece, 9-10 December.
- G3** M. Sfakiotakis, X. Zabulis, N. Pateromichelakis, and D.P. Tsakiris (2010). Techniques for assisting propulsion and visual servoing for endoscopic capsules. *Proc. 2<sup>nd</sup> Hellenic Conference on Robotics*, Patras, Greece, 9-10 December.
- G2** N. Pateromichelakis, M. Sfakiotakis, and D.P. Tsakiris (2009). Biomimetic pedundulatory locomotion robotic systems. *Proc. 2<sup>nd</sup> Hellenic Conference on Robotics*, Athens, Greece, 23-24 February.
- G1** G. Papanikolaou, S. Bachtstentzis, and M. Sfakiotakis (1995). Time-Domain Spectroscopy for audio installations. *Proc. 2<sup>nd</sup> Meeting of the Hellenic Branch of the Audio Engineering Society (AES)*, Athens, March 1995.

#### Refereed Extended Abstracts in International Conferences

- A12** D. Kosmopoulos, C. Constantinopoulos, D. Papadimitriou, T. Manios, J. Fasoulas, M. Sfakiotakis, C. Stantoumis, I. Kalisperakis, A. Tsalavoutas, and L. Drikos (2019). The SOUP project: current state and future activities. Extended abstract and presentation at the *10<sup>th</sup> Int. Conf. on Information, Intelligence, Systems and Applications (IISA'19), Project Tract Satellite Event*, Patras, Greece, July 15-17.
- A11** D.P. Tsakiris, M. Sfakiotakis, T. Evdaimon, and A. Chatzidaki (2016). Joint-tracking control for SMA-actuated robots. Poster presentation at the *24<sup>th</sup> IEEE Mediterranean Conf. on Control and Automation (MED'16), Workshop on Legged and Multi-modal Locomotion*, Athens, Greece, June 21-24.
- A10** A. Kazakidi, M. Sfakiotakis, X. Zabulis, D.P. Tsakiris (2015). Octopus arm kinematic analysis for use in multi-arm underwater robotic swimmers. Poster presentation at the *IEEE Int. Conf. on Robotics and Automation (ICRA'15), Late Breaking Results*, Seattle, USA, pp. 4136, May 26-30.
- A9** M. Sfakiotakis, N. Pateromichelakis, D.P. Tsakiris (2013). Vibration-induced frictional reduction for magnetically guided intracorporeal devices. Short paper and poster presentation at the *6<sup>th</sup> Hamlyn Symposium on Medical Robotics*, London, UK, June 22-25.

- A8** M. Sfakiotakis, N. Pateromichelakis, D.P. Tsakiris (2012). Using vibrations to reduce friction in magnetically guided intracorporeal devices. Short paper and poster presentation at the *IEEE IROS 2012 Workshop on Magnetically Actuated Multiscale Medical Robots*, Algavre, Portugal, October 7-12.
- A7** A. Kazakidi, M. Kuba, A. Botvinnik, M. Sfakiotakis, T. Gutnick, S. Hanassy, G. Levy, J.A. Ekaterinaris, T. Flash, B. Hochner, D.P. Tsakiris (2012). Swimming patterns of the *Octopus vulgaris*. Poster presentation at the *22nd Annual Meeting of Neural Control of Movement Society*, Venice, Italy, April 23-29.
- A6** D.P. Tsakiris, M. Sfakiotakis, X. Zabulis, and N. Pateromichelakis (2011). Visual servoing for robotic endoscopic capsules. Abstract at the *IEEE IROS 2011 Workshop on Image-Guided Medical Robotic Interventions*, San Francisco, USA, Sept 25.
- A5** G. Papadourakis, M. Sfakiotakis, H. Kaghazchi (2011). Cooperative Network Training (CoNeT) project. Extended abstract at the *10th Int. Symp. on Ambient Intelligence and Embedded Systems (AmiEs'11)*, Chania, Greece, Sept. 22-24.
- A4** M. Sfakiotakis, X. Zabulis, and D.P. Tsakiris (2010). Endoscopic capsule line-of-sight alignment by visual servoing. Extended abstract at the *7th Intl. Conf. on Wearable Micro and Nano Technologies for Personalized Health (pHealth 2010)*, Berlin, Germany, May 26-28.
- A3** M. Sfakiotakis and D.P. Tsakiris (2006). Neural control of reactive behaviors for undulatory robots. Extended abstract and poster presentation at the *Annual Computational Neuroscience Meeting (CNS\*2006)*, Edinburgh, UK, July 15-18.
- A2** D.P. Tsakiris, A. Menciassi, M. Sfakiotakis, G. La Spina, and P. Dario (2004). Undulatory locomotion of polychaete annelids: mechanics, neural control and robotic prototypes. Extended abstract, poster and presentation at the *Annual Computational Neuroscience Meeting (CNS\*2004)*, Baltimore, USA, July 17-22.
- A1** D.P. Tsakiris, A. Menciassi, M. Sfakiotakis, G. La Spina, and P. Dario (2004). Polychaete-like undulatory robots for search-and-rescue operations. Poster and presentation at the *IEEE Workshop on Safety, Security and Rescue Robotics (SSRR'04)*, Bonn, Germany, May 24-26. Abstract published in the Workshop Proceedings CD-ROM (ISBN 3-8167-6556-4).