

## ODYSSEAS KONTOVOURKIS, Ph.D.

### SECTION A

#### PERSONAL DETAILS

**Email:** [kontovourkis.odysseas@ucy.ac.cy](mailto:kontovourkis.odysseas@ucy.ac.cy)

**Profile:** <http://www.ucy.ac.cy/en-US/~odykont.aspx>

**Website:** <http://www.okont.com/>

**Scopus Author ID:** 54381941400

<http://orcid.org/0000-0001-5804-9657>

#### EMPLOYMENT DETAILS

**Position:** Assistant Professor

**Department:** Architecture

**Date of appointment:** 17.08.2010

**Address:** University of Cyprus, Department of Architecture, P.O. Box 20537, 1678 Nicosia, CYPRUS

**Tel:** (+357) 22892976, (+357) 99886413, **Fax:** (+357) 22895373

#### RESEARCH AND TEACHING INTERESTS

- Computational design and digital fabrication
- Automation and robotics in sustainable construction
- Additive manufacturing
- Architectural multi-objective analysis
- Pedestrian movement behavior modeling and circulation design
- Adaptation and interaction in architectural systems
- Theory of design process and the use of computers

#### STUDIES

- 01.10.2004-  
11.03.2009 **Ph.D., Doctor of Philosophy in Architecture**  
Department of Architecture and Civil Engineering, University of Bath, Bath, UK
- 01.04.2001-  
31.03.2002 **Research Student, Certificate**  
Field of Structural Mechanics and Dynamics, Theory of Earthquake Resistant Structures,  
Department of Architecture Engineering, Osaka University, Osaka, JAPAN
- 09.1993-  
03.1999 **Dip.Arch., Diploma in Architecture Engineering, Overall Grade: 9.31/10.0 (Excellent)**  
Field of Architectural Design, Department of Architecture Engineering,  
National Technical University of Athens (N.T.U.A.), Athens, GREECE  
*[Awarded First Prize and Silver Medal for the highest overall grade among 157 Graduates of the year 1999]*

#### POSITIONS HELD

- **Academic**
- Since  
01.08.2015 **Assistant Professor**  
Department of Architecture, University of Cyprus (UCY), Nicosia, Cyprus  
Assistant Professor in the area of Architectural Communication Media  
Coordinator: Digital Architectural Design and Fabrication Laboratory
- 17.08.2010-  
31.07.2015 **Lecturer**  
Department of Architecture, University of Cyprus (UCY), Nicosia, Cyprus  
Lecturer in the area of Architectural Communication Media  
Coordinator: Digital Architectural Design and Fabrication Laboratory
- 18.01.2010-  
30.04.2010 **Part-time Adjunct Faculty**  
Department of Architecture, University of Cyprus (UCY), Nicosia, Cyprus  
Teaching position in the area of Computer-Aided Design

- 07.09.2009-  
21.12.2009 **Part-time Adjunct Faculty**  
Department of Architecture, University of Cyprus (UCY), Nicosia, Cyprus  
Teaching position in the area of Computer-Aided Design
- 13.08.2010-  
02.02.2009 **Assistant Professor**  
Department of Architecture, University of Nicosia (UNIC), Nicosia, Cyprus  
Teaching position in the area of Computer-Aided Design
- 15.09.2008-  
02.02.2009 **Full-time academic faculty (unranked)**  
Department of Architecture, University of Nicosia (UNIC), Nicosia, Cyprus  
Teaching position in the area of Computer-Aided Design

- **Professional**

- Since 08.2010 **Collaborator – Consultant Architect**  
Participate in National and International Architectural Design Competitions
- 04.2002-  
08.2010 **Principal Architect**  
Design of private houses  
Participate in National and International Architectural Design Competitions
- 06.2008-  
08.2008 **Employed as architect** in the architectural office of  
Phanos N. Loizides and Antonia Shiambela-Loizides  
58, Glastonos Str. Office 101, 3041, Limassol, Cyprus  
Design of private houses
- 05.2002-  
09.2004 **Employed as architect** in the architectural office of Andreas Vardas (Vardas Studio)  
18, Neofytou Nocolaidi Avenue, 8011, Pafos, Cyprus  
Design of offices, apartments, private houses, etc.  
Participate in National Architectural Design Competitions
- 05.1999-  
07.2000 **Employed as architect** in the architectural office of  
D.Isaias and T.Papaioannou (Professors of the N.T.U.A.)  
88,Themistokleous Street, Exarheia, 10681, Athens, Greece  
Design of school buildings

**ACADEMIC AWARDS, DISTINCTIONS AND OUTSTANDING ACHIEVEMENTS**

- 2016 **Conference paper presented in the eCAAD3 2015 selected to be published in the International Journal of Architectural Computing**  
*The paper 'Robotic Fabrication of Tensile Mesh Structures and Real Time Response: The Development and Simulation of a Custom-Made End Effector Tool' authored by Kontovourkis, O. & Tryfonos, G. has been selected among 148 published papers of the conference eCAADe 2015 (Education in Computer Aided Architectural Design in Europe) to be published in the December 2016 issue of the International Journal of Architectural Computing.*
- 2010 **Conference paper selected as one of the ten best papers of the conference eCAADe 2010**  
*The paper 'Computer-Generated Circulation Diagrams in Macro-Scale Design Investigation' authored by Kontovourkis, O. has been selected among 95 published papers as one of the ten best papers of the conference eCAADe 2010 (Education in Computer Aided Architectural Design in Europe) to be published in the special issue of the Automation in Construction journal on 'Future Cities'*
- 2004 - 2005 **British Chevening Scholarship 2004/2005**  
Full scholarship to support first year [2004/05] of MPhil/PhD Research in Architecture studies at the University of Bath, Foreign and Commonwealth Office (FCO), United Kingdom
- 2002 **First Prize and Silver Medal of Prometheus the Fire, which is the emblem of the National Technical University of Athens**  
First graduate student by order of success among 157 Graduates of the year 1999 by National Technical University of Athens (N.T.U.A.), September 19, 2002, Greece
- 2000 - 2002 **Japanese Government (Monbusho) Scholarship Research Student**

- Scholarship to support Japanese Language [10/00-04/01] and Research Studies [04/01-04/02] at Osaka University, Japanese Government, Tokyo, Japan
- 1998 - 1999 **Styliani Samara and Anastasias Synouri Prize**  
Highest Diploma grade among the Diploma holders of the Department of Architects Engineers in the Year 1999, National Technical University of Athens (N.T.U.A.), Greece
- 1998 - 1999 **Chrysovergeio Prize**  
Highest Diploma grade among the Diploma holders of the Department of Architects Engineers in the Year 1999, National Technical University of Athens (N.T.U.A.), Greece
- 1997 - 1998 **Prize of Lyssandros Kaftantzoglou**  
Excelled among the students of the Faculty of Architects Engineers for the academic year 1997-1998, National Technical University of Athens (N.T.U.A.), Greece
- 1997 - 1998 **Prize and Scholarship by Hellenic Technical Chamber (H.T.C.)**  
Excellent Academic performance during the 1997-1998 Academic Session, Hellenic Technical Chamber (H.T.C.), Greece
- 1996 - 1997 **Prize of Stamos K. Stournas**  
Ranked first in the examinations among the students of the 5<sup>th</sup> -6<sup>th</sup> and 7<sup>th</sup> -8<sup>th</sup> semesters of the Faculty of Architects Engineers the Academic Year 1996-1997, National Technical University of Athens (N.T.U.A.), Greece
- 1996 - 1997 **Prize of Dimitrios Thomaidis**  
Ranked first among the students of the Faculty of Architects Engineers the Academic Year 1996-1997, National Technical University of Athens (N.T.U.A.), Greece
- 1996 - 1997 **Prize and Scholarship by Hellenic Technical Chamber (H.T.C.)**  
Excellent academic performance during the 1996-1997 Academic Session, Hellenic Technical Chamber (H.T.C.), Greece
- 1996 - 1997 **Prize: 'Always Exceeding' by State Scholarship Foundation (S.S.F.)**  
Distinction in his studies and morals during the course of study of the academic year 1996-1997 (4<sup>th</sup> Year) at the Department of Architectural Engineering (N.T.U.A), State Scholarship Foundation (S.S.F.) of Greece, Greece
- 1996 - 1997 **Scholarship (purse) by State Scholarship Institution (S.S.I.)**  
Scholarship (purse) for his application in his studies and his excellent conduct during academic year 1996-97 (4<sup>th</sup> year of studies) of his studies, in the Department of Architects of the Metsovion Technical University, State Scholarship Institution (S.S.I.) of Greece, Greece
- 1995 - 1996 **Scholarship (with prize money) by Institute of State Scholarships (I.S.S.)**  
Scholarship (with prize money) for demonstrated by him performance and conduct during the academic year 1995-96 of his attendance at the Department of Architectural Engineering of the National Technical University of Athens, Institute of State Scholarships (I.S.S.) of Greece, Greece
- 1994 - 1995 **Scholarship (with prize money) by Institute of State Scholarships (I.S.S.)**  
Scholarship (with prize money) for demonstrated by him performance and conduct during the academic year 1994-95 of his attendance at the Department of Architectural Engineering of the National Technical University of Athens, Institute of State Scholarships (I.S.S.) of Greece, Greece
- 1994 - 1995 **Prize and Scholarship by Hellenic Technical Chamber (H.T.C.)**  
Excellent academic performance during the 1994-1995 Academic Session, Hellenic Technical Chamber (H.T.C.), Greece
- 1993 - 1994 **Scholarship (with prize money) by Institute of State Scholarships (I.S.S.)**  
Scholarship (with prize money) for demonstrated by him performance and conduct during the academic year 1993-94 of his attendance at the Department of Architectural Engineering of the National Technical University of Athens, Institute of State Scholarships (I.S.S.) of Greece, Greece
- 1993 - 1998 **Scholarship by State Scholarship Authority of Cyprus (S.S.A.C)**  
Scholarship to support five years [1993-1998] of Diploma studies in the Department of Architecture Engineering of the National Technical University of Athens, State Scholarship Authority of Cyprus (S.S.A.C), Cyprus

## CONSULTANCY PROVISION

- **Participation in International Committees**
- 2011 External reviewer to evaluate proposals submitted for the research program 'Thalis' (Enhancement of Interdisciplinary or/and Interdepartmental Research and Innovation with the Prospect for Recruitment of High-Level Researchers from Abroad via the Implementation of Basic and Applied High-Quality Research)  
Ministry for Education, Life Long Learning and Religious Affairs, Greece
- 2010 Member of the Assessment Panel to evaluate proposals submitted for research leading to PhD in Thematic Area V (Engineering, Computer Science, and Communication Engineering) of Research Program Heraclitus II, Research Program Heraclitus II  
Ministry for Education, Life Long Learning and Religious Affairs, Greece
- **Participation in National Committees**
- 2017 Member of the Examination Committee of the Architectural Drawings subjects of the Cyprus University Entry Exams, 2017  
Ministry of Education and Culture, Cyprus  
  
Participate as a scientific expert in the ClimateKIC Themes session, 03.07.2017  
Cyprus University of Technology, Limassol, Scientific expert
- 2016 Cyprus University of Technology, Limassol, Scientific expert  
Ministry of Energy, Commerce Industry and Tourism, Cyprus  
  
Member of the Examination Committee of the Architectural Drawings subjects of the Cyprus University Entry Exams, 2016  
Ministry of Education and Culture, Cyprus
- 2014 Member of the Technical Special Committee to Evaluate Study Programs of Private Tertiary Education: Cyprus College, Interior Architecture and Technical Office Management (2 years, full-time or 4 years part-time, Diploma), 2014  
Ministry of Education and Culture, Cyprus
- 2013 Member of the Examination Committee of the Architectural Drawings subjects of the Cyprus University Entry Exams, 2013  
Ministry of Education and Culture, Cyprus
- 2012 Member of the Scientific Committee to evaluate proposals submitted for the participation of Cyprus in Architecture Biennale 2012, Venice, Italy  
Cyprus Architects Association, Cyprus
- 2011 Examiner for the recruitment of technical services officer (Architect) in Pafos Municipality, Pafos, Cyprus, 19.05.2011  
Pafos Municipality, Pafos, Cyprus
- 2010 Examiner for the recruitment of technical staff in Cyprus Land Development Corporation, Nicosia, Cyprus, 09.11.2010  
Cyprus Land Development Corporation, Nicosia, Cyprus

## PARTICIPATION IN COMMITTEES

- **University Committees**
- 2015-2017 Member of the Editorial Board of the Cyprus University Press (CUP), University of Cyprus, 2015
- 2013-2017 Member of the KE.DI.MA (Centre of Teaching and Learning), University of Cyprus, 2013 [18.09.2013-08.04.2015 & 08.04.2015-31.12.2017]
- 2013-2017 Member of the School of Engineering Board, University of Cyprus, 2013-2017
- 2011 Member of the evaluation committee in Architectural Competition for the building facilities of the Department of Biological Sciences and common teaching facilities 03, Phase A, University of Cyprus, 2011  
  
Member of the Health and Safety Committee of the School of Engineering, University of Cyprus, 2011

**- Departmental Committees**

- 2013-2014 Member of the evaluation committee in 1st Annual Student Competition of the Department of Architecture at the University of Cyprus for the Annual Architecture Award in Memory of George Paraskevaides, 2013, University of Cyprus
- Since 2013 Editorial Board Member/ Chief Editor and Coordinator of the J.UCY03 & JUCY04 (Journal of the Department of Architecture), University of Cyprus
- Since 2011 Coordinator of Information Systems and Website Committee, Department of Architecture, University of Cyprus
- Member of Postgraduate Committee, Department of Architecture, University of Cyprus
- Member of Departmental Premises Committee, Department of Architecture, University of Cyprus
- Member of Health and Safety Committee, Department of Architecture, University of Cyprus
- 2011-2012 Member of L. and T. David Prize Committee, Department of Architecture, University of Cyprus
- Since 2015 Director and Coordinator of the Robotic Construction Research Laboratory, Department of Architecture, University of Cyprus, Cyprus
- Since 2010 Director and Coordinator of the Research Laboratory for Digital Developments in Architecture and Prototyping – d2AP, Department of Architecture, University of Cyprus, Cyprus
- Since 2010 Coordinator of the Departmental Digital Architectural Design and Fabrication Laboratory, Department of Architecture, University of Cyprus, Cyprus  
Established the CNC Laser Cutter and Foam Cutter Laboratories.  
Responsible for the smooth operation of 3D Printer, CNC Laser Cutter, and Foam Cutter machines  
*[The Department of Architecture supports research and teaching in the area of digital architectural design and fabrication through Computer and Fabrication Labs. The Computer Lab is equipped with workstations [Department of Architecture grant and A. Savvides start-up grant] using a wide range of 3-dimensional design programs including AutoCAD, Allplan, 3DStudio Max, and Rhino/Grasshopper. The Fabrication Lab is equipped with 3D Printer, CNC Laser Cutter, and Foam Cutter machines]*
- 2009 - 2010 Coordinator for the Digital Design and Fabrication Laboratory, Department of Architecture, University of Nicosia, Cyprus
- 2008-2009 Member of the Library Committee, Department of Architecture, University of Nicosia, Cyprus

**DESIGN COMPETITIONS REVIEWER**

- 2018 Member of the Selection Committee to evaluate proposals for the exhibition ‘Designing Complexity’, 12.04.2018 [Review]  
Organized by Mongeometrija 2018 – 6<sup>th</sup> International Conference on Geometry and Graphics Faculty of Technical Sciences, Novi Sad, Serbia, 6-9.07.2018, Novi Sad, Serbia
- 2017 Member of the jury committee to evaluate proposals for the Computational Design and Construction Competition among students and young architects, the URBAN FURNITURE project, 13.07.2017  
Organized by A&P Andreou Bros Ltd, Nicosia, Member of the jury committee
- 2015 Design Competition among Cyprus Elementary Schools: The children, citizens of the future, 10-11.2015  
Ministry of Education and Culture, Cyprus, Member of the jury committee
- 2014 Christmas Design Challenge [Organized by Tellalis], 10.12.2014  
Part of Nicosia Pop Up Festival 2014, Nicosia, Member of the jury committee

**EDITORSHIPS AND JOURNAL REVIEWING**

- 2018 Peer reviewer for the papers submitted for the 36<sup>st</sup> Conference on Education in Computer Aided Architectural Design in Europe: *Computing for a better tomorrow*. Lodz: Lodz University of Technology, 19-21.09.2018 [Reviewer]

Curriculum Vitae [06.2018]

- Symposium Chair and Peer reviewer for the papers submitted for the 6<sup>st</sup> eCAADe Regional International Symposium: *Sustainable Computational Workflows*. Nicosia: University of Cyprus, 24-25.05.2018 [Symposium Chair and Reviewer]
- 2017 Peer reviewer for the papers submitted for the 35<sup>st</sup> Conference on Education in Computer Aided Architectural Design in Europe: *ShoCK! - Sharing Computational Knowledge!* Rome: Sapienza University of Rome, 20-22.09.2017 [Reviewer]
- Peer reviewer for the papers submitted for the SimAUD 2017: Symposium on Simulation for Architecture and Urban Design. Toronto: MaRS Discovery District, 22-24.05.2017 [Reviewer]
- 2016 Peer reviewer for the abstracts submitted for the Continuum 2016: From Xenakis to the present: The continuum in music and architecture. Nicosia: University of Cyprus (UCY), 12-14.06.2016 [Reviewer]
- Peer reviewer for the abstracts submitted for the 11<sup>th</sup> European Conference of Products and Process Modelling: ECCPM. Nicosia: University of Cyprus (UCY), 07-09.09.2016 [Reviewer]
- 2015 - 2017 Journal of Architecture, J.UCY04, Department of Architecture, University of Cyprus, Nicosia, in Greek and English [Chief Editor]
- 2013 Peer reviewer for the papers submitted for the 31<sup>st</sup> Conference on Education in Computer Aided Architectural Design in Europe: Computation and performance. Delft: Delft University of Technology (TU Delft), 18-20.09.2013 [Reviewer]
- Peer reviewer for the Urban Studies Research Journal, Hindawi Publishing Corporation, 2013 [Reviewer]
- Journal of Architecture, J.UCY03, Department of Architecture, University of Cyprus, Nicosia, in Greek and English [Chief Editor]

#### CONFERENCES ORGANIZED

- 2018 *Sustainable Computational Workflows: Computational Design and Fabrication towards Sustainable Products and Processes*, 24-25.05.2018 [Department of Architecture, UCY]  
6<sup>th</sup> eCAADe Regional International Symposium, Department of Architecture, UCY  
Symposium Chair: Odysseas Kontovourkis

#### PARTICIPATION IN PROFESSIONAL SOCIETIES

- Since 2015 International Association for Automation and Robotics in Construction (IAARC)  
Since 2009 Cyprus Civil Engineers and Architects Association  
Since 2008 eCAADe: Education and Research in Computer Aided Architectural Design in Europe  
Since 2000 Scientific and Technical Chamber of Cyprus (ETEK), Nicosia, Cyprus  
Licensed/Registered Architect  
Since 1999 Cyprus Architects Association, Nicosia, Cyprus  
2002-2003 Japanese Institute of Architects (JIA), Japan

## SECTION B

### RESEARCH PROJECTS

- 2017 - 2021      Title: *European Research Program COST Action CA16114 Rethinking Sustainability towards a Regenerative Economy*  
Acronym: **RESTORE**  
Type: European, Funding: External, Funding Authority: European Commission  
Author's Role: Participant - Member of the Management Committee (MC) and Working Groups 3 + 4 (WG 3 + 4)  
09.03.2017-08.03.2021  
Status: Ongoing  
Affiliated Organization: University of Cyprus, Country: Cyprus  
Internet access: <http://www.eurestore.eu/>  
Description: Rethinking Sustainability towards a Regenerative Economy  
Budget (€): - UCY Budget (€): Accommodation, living, and transportation expenses
- 2016 - 2020      Title: *Optimization Driven Architectural Design of Structures*  
Acronym: **OptArch**  
Type: European, Funding: External  
Funding Authority: European Commission, H2020-MSCA-RISE-2015  
Author's Role: Participant - Member of the Research Team  
01.02.2016-31.01.2020  
Status: Ongoing  
Affiliated Organization: University of Cyprus, Country: Cyprus  
Coordinator: National technical University of Athens, Greece  
Beneficiary: University of Cyprus, Cyprus; University Paris Diderot – Paris 7, France; Shape Idiotiki Kefalaiouchiki Etairia, Greece; Gediz University, Turkey; Yasar University, Turkey; Americal Computers and Engineers Hellas SA, Greece; Ecole Polytechnique, France; Institute Polytechnique De Grenoble, France; IOPTI, France; Izmir Institute of Technology, Turkey  
Internet access: <http://optarch.ntua.gr>  
Description: Optimization Architectural Design of Structures  
Budget (€): 1620000.00, UCY Budget (€):108000.00
- 2016 - 2018      Title: *Innovative Modular Brick Unit System for the Environmental Design of Building Envelope*  
Acronym: **EcoBrick**  
Type: National, Funding: Internal (Interdepartmental)  
Funding Authority: University of Cyprus  
Author's Role: Participant - Member of the Research Team  
12.2016-11.2018  
Status: Ongoing  
Affiliated Organization: University of Cyprus, Country: Cyprus  
Description: The EcoBrick project looks into the embodied energy and energy efficiency of a modular masonry system. Moreover, it investigates various mix designs and deals with the characterization of the physico-mechanical properties of the end products.  
Budget (€): 21000.00
- 2015 - 2016      Title: *Synergetic Multi-Objective Design and Construction of Timber Pavilion Prototypes*  
Acronym: **SYNERGY**  
Type: National, Funding: External  
Funding Authority: Charalambides Christis Company (Private research funding)  
Author's Role: Principle Investigator  
01.04.2015-31.01.2017  
Status: Completed  
Affiliated Organization: University of Cyprus, Country: Cyprus  
Description: Synergetic Multi-Objective Design and Construction of Timber Pavilion Prototypes  
Budget (€): 100000.00

- 02.2014-06.2014 Title: ***Development of a flexible and adaptable spatial structural system***  
Type: National, Funding: Internal  
Funding Authority: Department of Architecture, University of Cyprus  
Author's Role: Project Coordinator and Principle Investigator  
01.02.2014-30.06.2014  
Status: Completed  
Affiliated Organization: University of Cyprus, Country: Cyprus  
Description: This research project focuses on the design development, implementation and motor control of a flexible and adaptable spatial structural system based on the bottom-up development procedure, parametric associative and physics based modeling  
Budget (€): 5000.00
- 2012-2014 Title: ***Digital Architectural Design and Fabrication Laboratory – Robotic Arm***  
Type: National, Funding: Internal (Start-up Research Grant)  
Funding Authority: University of Cyprus  
Author's Role: Project Coordinator and Principle Investigator  
2012 (Training), 19.09.2013-31.12.2014 (Robotic Arm)  
Status: Completed  
Affiliated Organization: University of Cyprus, Country: Cyprus  
Description: This research project aims to establish a Laboratory for Digital Architectural Design and Fabrication of complex, non-standard three-dimensional building structures and forms providing advanced prototyping solutions using Robotic Arm in fabrication process  
The project is financed by the University of Cyprus under the start-up research grant program (currently in the process of purchasing and installing the Robotic Arm)  
Budget (€): 2000.00 (Training) and 72000.00 (Robotic Arm)
- 2008 - 2012 Title: **European Research Program COST Action TU0801 Semantic enrichment of 3D city models for sustainable urban development**  
Type: European, Funding: External, Funding Authority: European Commission (COST - European Cooperation in the field of Scientific and Technical Research)  
Author's Role: Participant - Member of the Management Committee (MC) and Working Group 1 (WG1)  
04.11.2008-03.11.2012  
Status: Completed  
Affiliated Organization: University of Cyprus, Country: Cyprus  
Internet access: [http://www.cost.eu/COST\\_Actions/tud/TU0801](http://www.cost.eu/COST_Actions/tud/TU0801)  
Description: Semantic enrichment of 3D city models for sustainable urban development  
Budget (€): - UCY Budget (€): Accommodation, living, and transportation expenses

## OTHER RESEARCH EXPERIENCE

- **Research studies**
- 01.10.2004-11.03.2009 **Doctoral Dissertation**  
PhD in Architecture, Department of Architecture and Civil Engineering  
University of Bath, Bath, United Kingdom  
PhD Dissertation: ***Computer-generated circulation diagrams***  
Supervisor: Dr Chris J. K. Williams, Senior Lecturer  
Areas of concentration: Digital design process, algorithmic design, pedestrian modeling, circulation diagrams
- 01.04.2001-31.03.2002 **Research in Architecture Engineering**  
Field of Structural Mechanics and Dynamics, Theory of Earthquake Resistant Structures, Department of Architecture Engineering, Osaka University, Osaka, Japan  
Research study: ***Conceptual design of structural elements based on intuitive aesthetic sense and on super fine stress analysis by using LS-DYNA***  
Supervisor: Professor Tachibana Eizaburo  
Areas of concentration: Digital design process, structural analysis, structural elements



Odysseas Kontovourkis, Ph.D., Assistant Professor / Department of Architecture, University of Cyprus

Curriculum Vitae [06.2018]

- **Research assistant**

1997 **Research assistant** for the project:

*'Depicting the stops of the electric train and future integration with the stops of the Underground trains in Athens'*

National Technical University of Athens, Athens, Greece

Professor in charge: S. Raftopoulos

1996 - 1997 **Research assistant** for the project:

*'Classification and listing of the drawing archive of J.Despotopoulos (Professor of N.T.U.A.)'*

National Technical University of Athens, Athens, Greece

Professor in charge: M. Adami

## SECTION C

### PUBLICATIONS

#### - University books editorship

2015 **B01. Kontovourkis, O.**, Phocas, M.C., Pyla, P., Stratis, S. (eds.), 2015. *Journal of Architecture, J.UCY-03 [ISSN 1986-1346 (print) – ISSN 2421-7794 (online)]*, Department of Architecture, University of Cyprus, Nicosia, in Greek and in English [413 p.]

#### - Books of proceedings editorship

2018 **BP01. Kontovourkis, O.** (ed.), 2018. *Sustainable Computational Workflows [6th eCAADe Regional International Workshop Proceedings / ISBN 9789491207143]*, Department of Architecture, University of Cyprus, Nicosia, Cyprus, 24-25 May 2018 [166 p.]

#### - Chapters in books

2018 **BC03. Kontovourkis O.**, Alexandrou K., Frangogiannopoulos S., 2018. Encoding Gesture-Oriented Human Behaviour for the Development and Control of an Adaptive Building Skin. In: M. Rossi, G. Buratti, eds. *Computational Morphologies*. Springer, Cham, pp. 133-146 [14 p.]

2012 **BC02. Leduc, T. and Kontovourkis, O.**, 2012. Towards a mixed approach combining visibility and mobility studies to analyze the Eleftheria Square, Nicosia (CY). In: R. Billen, M. Caglioti, O. Marina, G. Rabino, R. San Jose, eds. *3D Issues in Urban and Environmental Systems*, Bologna: Societa Editrice Esculapio, pp. 67-77 [11 p.]

2008 **BC01. Williams, C. J. K. and Kontovourkis, O.**, 2008. Practical Emergence. In: D. Littlefield, ed. *Space Craft: Developments in Architectural Computing*. London: RIBA Publishing, pp. 68-81 [14 p.]

#### - Scientific journals [Refereed]

##### - Published/In Print

2017 **J13. Kontovourkis, O.**, Phocas, M.C., Alexandrou, K. & Frangogiannopoulos, S., 2017. Configuration and deformation control of a hybrid bending-active structure. *International Journal of Computational Methods and Experimental Measurements*, WIT Press, Vol. 5, N. 4, pp. 475-483 doi: 10.2495/CMEM-V5-N4-475-483 [9 p.]

**J12. Phocas, M.C., Kontovourkis, O. & Georgiou, N.I.**, 2017. High-rise airflow structural concept. *International Journal of Design & Nature and Ecodynamics*, WIT Press, Vol. 12, N. 2, pp. 176-184 doi: 10.2495/DNE-V12-N2-176-184 [8 p.]

J11. Phocas, M.C., **Kontovourkis, O.** & Alexandrou, K., 2017. Post-reflecting on the process of integral design of an adaptive footbridge structure using bending-active principles. *International Journal of Design & Nature and Ecodynamics*, WIT Press, Vol. 12, N. 1, pp. 86-100 doi: 10.2495/DNE-V12-N1-86-100 [14 p.]

2016 **J10. Kontovourkis, O.** and Tryfonos, G., 2016. Design optimization and robotic fabrication of tensile mesh structures: The development and simulation of a custom-made end-effector tool. *International Journal of Architectural Computing*, SAGE, Vol. 14, No. 6 doi: 10.1177/1478077116670742 [16 p.]

2015 **J09. Kontovourkis, O.**, Phocas, M.C., Lamprou, I., 2015. Adaptive kinetic structural behavior through machine learning: Optimizing the process of kinematic transformation using artificial neural networks. *Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM*, Cambridge University Press, Vol. 29, No. 4, pp. 371-391 doi:10.1017/S0890060415000396 [21 p.]

**J08. Kontovourkis, O.**, Phocas, M.C., Konatzii, P., 2015. Bottom-up design, construction and control of a reconfigurable structural system. *Journal of the International Association of Shell and Spatial Structure: J.IASS*, Vol. 56, No. 2, pp. 101-112 [12 p.]

2014 **J07. Kontovourkis, O.**, 2014. Computational mechanisms in architectural adaptation and interaction process through human behavior physical inputs. *Architecturae et Artibus*, Politechnika Bialostocka, Vol. 19, N.1, pp. 29-33 [5 p.]

- J06.** Phocas, M.C., **Kontovourkis, O.**, Nicolaou, N., 2014. Design concept of a kinetic form-active hybrid envelope structure. *International Journal of Design & Nature and Ecodynamics, WIT Press*, Vol. 9, N. 1, pp. 13-30 [18 p.]
- 2013 **J05.** Sarvani, V., **Kontovourkis, O.**, 2013. Parametric design of a high-rise habitation unit system through lighting and solar energy performances. *Journal of Sustainable Architecture and Civil Engineering*, Kaunas University of Technology, Vol. 3, N. 4, pp. 9-18 [10 p.]
- J04.** **Kontovourkis, O.**, Phocas, M.C., Tryfonos, G., 2013. Prototyping of an Adaptive Structure based on Physical Conditions. *International Journal of Architectural Computing*, Multi-Science Co., Vol. 11, No. 2, pp. 205-225 [21 p.]
- 2012 **J03.** Phocas, M.C., **Kontovourkis, O.**, Ioannou, T., 2012. Interdisciplinary Research Based Design: The Case of a Kinetic Form-Active Tensile Membrane. *Architectural Engineering Technology*, OMICS, Vol. 1, No. 2, doi: 10.4172/2168-9717.1000104 [7 p.]
- J02.** Phocas, M.C., **Kontovourkis, O.**, Matheou, M., 2012. Kinetic Hybrid Structure Development and Simulation. *International Journal of Architectural Computing*, Multi-Science Co., Vol. 10, No. 1, pp. 67-86 [20 p.]
- J01.** **Kontovourkis, O.**, 2012. Design of circulation diagrams in macro-scale level based on human movement behavior modeling. *Automation in Construction*, Elsevier B.V., Vol. 22, pp. 12-23. doi:10.1016/j.autcon.2011.10.002 [12 p.]
- **Conference proceedings [Refereed]**
- **Published/In Print**
- 2018 **C31.** **Kontovourkis, O.** and Doumanidis, C.C., 2018. ICARUS Project - An open source platform for computer programming in architectural teaching and research. In A. Kepczynska-Walczak ed. *Proceedings of the 36th Conference on Education in Computer Aided Architectural Design in Europe: Computing for a better tomorrow*. Lodz: Lodz University of Technology [10 p.] [In Print]
- C30.** **Kontovourkis, O.** and Tryfonos, G., 2018. Integrating parametric design with robotic additive manufacturing for 3D clay printing: An experimental study. *Proceedings of the 35th International Symposium on Automation and Robotics in Construction*, Berlin, Germany [10 p.] [In Print]
- C29.** **Kontovourkis, O.** and Tryfonos, G., 2018. An integrated robotically driven workflow for the development of elastic tensile structures in various scales. In O. Kontovourkis ed. *Proceedings of the 6th eCAADe Regional International Symposium: Sustainable Computational Workflows*. Nicosia: University of Cyprus [10 p.]
- C28.** **Kontovourkis, O.** and Konatzii, P., 2018. Design-static analysis and environmental assessment investigation based on a kinetic formwork driven by digital fabrication principles. In O. Kontovourkis ed. *Proceedings of the 6th eCAADe Regional International Symposium: Sustainable Computational Workflows*. Nicosia: University of Cyprus [10 p.]
- C27.** **Kontovourkis, O.**, Katsambas, C., Koufopavlou, E., Kyriakou, E., Paschali M. and Stylianou S., 2018. Dual-user interaction in virtual environment towards robotic construction of masonry systems. *Proceedings of the CIB\*IAARC W119 International Conference on Smart, Sustainable and Sensuous Settlements Transformation (3SSettlements) 2018 Workshop*. Munich: Technical University of Munich, pp.176-183 [8 p.]
- 2017 **C26.** **Kontovourkis, O.**, 2017. Multi-objective design optimization and robotic fabrication towards sustainable construction - The example of a timber structure in actual scale. In A. Fioravanti, S. Cursi, S. Elahmar, S. Gargaro, G. Loffreda, G. Novembri, A. Trento, eds. *Proceedings of the 35th Conference on Education in Computer Aided Architectural Design in Europe: ShoCK! - Sharing Computational Knowledge! (Volume 2)*. Rome: Sapienza University of Rome, pp. 125-134 [10 p.]
- C25.** **Kontovourkis, O.** and Michael, P., 2017. A robotically-driven additive construction planning process using an ecological material. The introduction of 3D clay printing for large scale construction. In A.B. Spaeth and W. Jabi eds. *Proceedings of the 5th eCAADe Regional*

*International Symposium: The Virtual and the Physical. Between the representation of space and the making of space.* Wales: Cardiff University, pp. 95-104 [10 p.]

- C24. Kontovourkis, O.** & Demartinou, E., 2017. Modular formwork system layout development and assembly in actual scale based on robotic technology. In F. Moreira da Silva, H. Bártolo, P. Bártolo, R. Almendra, F. Roseta, H.A. Almeida and A.C. Lemos eds. *Challenges for Technology Innovation: An Agenda for the Future*, Taylor & Francis Group, pp. 89–94 [7 p.]
- C23.** Michael, A., **Kontovourkis, O.** & Phocas, M.C., 2017. Architectural synergies: Participatory design and construction of a pavilion prototype. In M. Couceiro da Costa, F. Roseta, J.P. Lages and S. Couceiro da Costa eds. *Architectural Research Addressing Societal Challenges*, Taylor & Francis Group, pp. 1031-1038 [8 p.]
- 2016 **C22. Kontovourkis, O.**, Konatzii, P., 2016. Optimization Process Towards Robotic Manufacturing in Actual Scale - The Implementation of Genetic Algorithms in the Robotic Construction of Modular Formwork Systems. In A. Herneoja, T. Österlund and P. Markkanen, eds. *Proceedings of the 34th Conference on Education in Computer Aided Architectural Design in Europe: Complexity & Simplicity (Volume 1)*. Oulu: University of Oulu, pp. 169-178 [10 p.]
- C21. Kontovourkis, O.**, Dimitriou, I., Chatzimanolis, K.P., Stylianou, M., Michael, P., Gregoriou, S., 2016. Development of physical control and virtual navigation mechanisms to enhance active collaboration between architects and clients in a reactive digital space. *Proceedings of the 4th eCAADe Regional International Workshop: Between computational models and performative capacities*. Novi Sad: University of Novi Sad, pp. 40-49 [10 p.]
- 2015 **C20. Kontovourkis, O.**, Michael, A., Alexandrou, K., Vassiliades, K., 2015. Lighting performance simulation and adaptive control of an advanced building skin based on human behaviour inputs. *Proceedings of the 10th Conference on Advanced Building Skins*. Munich: Economic Forum, pp. 1340-1349 [10 p.]
- C19.** Michael, A., **Kontovourkis, O.**, Kalogirou, S., Gregoriou, S., 2015. Integration of a lightweight plug-in adaptive envelope to maximize performance of natural lighting of existing buildings. *Proceedings of the 10th Conference on Advanced Building Skins*. Munich: Economic Forum, pp. 1360-1369 [10 p.]
- C18. Kontovourkis, O.**, Tryfonos, G., 2015. Robotic Fabrication of Tensile Mesh Structures and Real Time Response. The Development and Simulation of a Custom-Made End Effector Tool. In: B. Martens, G. Wurzer, T. Grasl, W. E. Lorenz, R. Schaffranek, eds. *Proceedings of the 33th Conference on Education in Computer Aided Architectural Design in Europe: Real Time - Extending the Reach of Computation (Volume 2)*. Wien: Technical University of Wien, pp. 389-398 [10 p.]  
[Selected to be published in the in the December 2016 issue of the *International Journal of Architectural Computing*]
- C17. Kontovourkis, O.**, Tryfonos, G., 2015. An additive robotic fabrication methodology for tensile mesh structures development. *Proceedings of the International Association of Shell and Spatial Structures (IASS) 2015 Annual Symposium on Future Visions*. Amsterdam, The Netherlands [11 p.]
- C16. Kontovourkis, O.**, Konatzii, P., 2015. A robotically driven methodology for the construction of an adaptive modular system. *Proceedings of the International Association of Shell and Spatial Structures (IASS) 2015 Annual Symposium on Future Visions*. Amsterdam, The Netherlands [11 p.]
- 2014 **C15. Kontovourkis, O.**, Phocas, M.C., Christoforou, E. G., Konatzii, P., 2014. Informed design strategy for the development of a reconfigurable modular structure. In: M. Voyatzaki, ed. *Proceedings of the ENHSA International Conference What's the matter: Materiality and Materialism at the Age of Computation*. Barcelona: COAC, ETSAB, ETSAB, pp. 753-767 [15 p.]
- C14. Kontovourkis, O.**, Tryfonos, G., 2014. Physical input-driven offline robotic simulation through a feedback loop process. In: E. M. Thompson, ed. *Proceedings of the 32th Conference*

- on Education in Computer Aided Architectural Design in Europe: Fusion - Data Integration at its best (Volume 1)*. Newcastle upon Tyne: Northumbria University, pp. 411-421 [11 p.]
- C13. Kontovourkis, O.**, Anagiotou, D., 2014. Integrative Pedestrian Modelling Techniques based on Virtual Force Fields: Analysis, Generation and Evaluation in Public Open Spaces. In: E. M. Thompson, ed. *Proceedings of the 32th Conference on Education in Computer Aided Architectural Design in Europe: Fusion - Data Integration at its best (Volume 1)*. Newcastle upon Tyne: Northumbria University, pp. 153-163 [11 p.]
- C12. Phocas, M.C., Kontovourkis, O.**, Alexandrou, K., 2014. Structural and construction design of a cable bending-active structure. In: N. Te Temmerman & C. A. Brebbia, eds. *Proceedings of the 4th International Conference on Mobile, Adaptable and Rapidly Assembled Structures: MARAS 2014*. Ostend: Wessex Institute of Technology & Vrije Universiteit Brussel, pp. 59-70 [12 p.]
- 2013 **C11. Kontovourkis, O.**, 2013. Physical data computing in adaptive design process. In: M. Asefi, ed. *Proceeding of the International Conference on Adaptation and Movement in Architecture: ICAMA 2013*. Toronto: Ryerson University, pp. 463-475 [13 p.]
- C10. Phocas, M.C., Kontovourkis, O.**, Alexandrou, K., 2013. Design of a Controlled Cable Bending-Active Structure', In: M. Asefi, ed. *Proceeding of the International Conference on Adaptation and Movement in Architecture: ICAMA 2013*. Toronto: Ryerson University, pp. 237-249 [13 p.]
- C09. Michael, A., Kontovourkis, O.**, 2013. Innovative in environmental-based architectural education through digital experimentation and construction workshop. In: M. Voyatzaki, ed. *Proceedings of the ENHSA International Conference Architectural Education in the Reality of the Ideal: Environmental design for innovation in the post-crisis world*. Naples, pp. 669-678 [10 p.]
- C08. Kontovourkis, O.**, Phocas, M.C., Tryfonos, G., 2013. Adaptive Prototyping Process as Mechanism Towards a Holistic Architectural Design. In: M. Stacey, ed. *Prototyping Architecture: The Conference Papers*, Building Centre Trust, pp. 92-105 [14 p.]
- 2012 **C07. Kontovourkis, O.**, 2012. Virtual Forces in Design and Fabrication Process: Assembly and Construction of Physical Prototypes. In: H. Achten, J. Pavlicek, J. Hulin, D. Matejdan, eds. *Proceedings of the 30th Conference on Education in Computer Aided Architectural Design in Europe: Digital Physicality | Physical Digitality (Volume 2)*, ISBN 978-9-4912070-3-7. Prague: Czech Technical University in Prague, pp. 133-141 [9 p.]
- 2011 **C06. Kontovourkis, O.**, 2011. Pedestrian Modelling and Circulation Diagrams in Three-Dimensional Built Environment. In: I.V. Kabashkin, I. V. Yatskin, eds. *Proceedings of the 11<sup>th</sup> International Conference 'Reliability and Statistics in Transportation and Communication' (RelStat' 11)*, (DVD), 19-22 October 2011, Riga: Transportation and Telecommunication Institute, p. 419-427. ISBN 978-9984-818-46-7 [9 p.]
- C05. Kontovourkis, O.**, 2011. Pedestrian modeling as generative mechanism for the design of adaptive built environment. In: T. Zupancic, M. Juvancic, S. Verovsek, A. Jutraz, ed. *Proceedings of the 29th Conference on Education in Computer Aided Architectural Design in Europe: Respecting Fragile Places. Ljubljana: University of Ljubljana*, pp. 850-858 [9 p.]
- C04. Phocas, M.C., Kontovourkis, O.**, Matheou, M., 2011. Integrated Design of a Kinetic Prototype Structure. A Case Study. In: F. Stacey, M. Stacey, eds. *Proceedings of the Adaptive Architecture: An International Conference at the Building Centre (DVD)*. London: Building Centre Trust and the University of Nottingham, [13 p.]
- 2010 **C03. Kontovourkis, O.**, 2010. Computer-generated circulation diagrams in macro-scale design investigation. In: G. Schmitt, L. Hovestadt, L. Van Gool, F. Bosché, R. Burkhard, S. Coleman, J. Halatsch, M. Hansmeyer, S. Konsorski-Lang, A. Kunze and M. Sehmi-Luck, ed. *Proceedings of the 28th Conference on Education in Computer Aided Architectural Design in Europe: Future Cities*. Zurich: ETH Zurich and vdf Hochschulverlag AG an der ETH Zürich, pp. 623-632 [10 p.] [Selected as one of the ten best papers of the conference eCAADe 2010 to be published in the special issue of the *Automation in Construction* journal on 'Future Cities']

- C02. Kontovourkis, O.** and Economides, D., 2010. Limitations and potentials of fabrication machinery: the example of a free-form design. In: M. Voyatzaki, ed. *Proceedings of the File to Factory (F2F) Conference: The Design and Fabrication of Innovative forms in a Continuum*. Thessaloniki: Charis Ltd, pp. 121-132 [12 p.]
- 2009 **C01. Kontovourkis, O.** and Economides, D., 2009. Establishing a digital fabrication laboratory and integrating it with architectural design. In: C. Spiridonidis and M. Voyatzaki, ed. *Proceedings of the ENHSA/EAAE Conference: Architectural Design and Construction Education Experimentation towards integration*. Thessaloniki: Art Of Text SA, pp. 77-88 [12 p.]
- **Abstracts in conference proceedings[Refereed]**
- Published/In Print**
- 2016 **A02.** Michael, A., **Kontovourkis, O.** & Phocas, M.C., 2017. Architectural synergies: Participatory design and construction of a pavilion prototype. In M. Couceiro da Costa, F. Roseta, J.P. Lages and S. Couceiro da Costa eds. *Proceeding of the EAAE/ARCC 10<sup>th</sup> International Conference on Architectural Research: Architectural Research Addressing Societal Challenges*. Lisbon: University of Lisbon [1 p.]
- 2013 **A01.** Sarvani, V., **Kontovourkis, O.**, 2013. Parametric design of a high-rise habitation unit system through lighting and solar energy performances. In: I. Grazuleviciute-Vileniske, J. Vitkuvieni, eds. *Proceeding of the Ecological Architecture 2013. 2<sup>nd</sup> International Scientific Conference dedicated to the Sustainability in Architecture and Planning*. Kaunas: Kaunas University of Technology, p. 22 [1 p.]
- **PhD Research Thesis**
- 2009 **Kontovourkis, O.**, 2009. *Computer-generated circulation diagrams*. University of Bath. [http://opus.bath.ac.uk/15766/1/UnivBath\\_PhD\\_2009\\_O\\_Kontovourkis.pdf](http://opus.bath.ac.uk/15766/1/UnivBath_PhD_2009_O_Kontovourkis.pdf) [318 p.]
- **Architectural projects published in books, journals and information bulletins**
- 2016 **Architectural workshop for timber construction in three elementary schools by the University of Cyprus: Construction of prototypes within the framework of the research program SYNERGY**  
*University of Cyprus Information Bulletin*, Volume 54, Nicosia, Cyprus, November 2016, pp. 20 [1 p.], in Greek
- 2012 **Students and young architects summer workshop 2012**  
*University of Cyprus Information Bulletin*, Volume 45, Nicosia, Cyprus, October 2012, pp. 10-11 [2 p.], in Greek
- Summer workshop 2012**  
*Architects + Engineers*, Cyprus Civil Engineers and Architects Association, Volume 96, Nicosia, Cyprus, September 2012, pp. 64-66 [3 p.], in Greek
- Students and young architects summer workshop**  
*Cyprus Scientific and Technical Chamber Information Bulletin*, Volume 159, Nicosia, Cyprus, September 2012, pp. 32 [1 p.], in Greek
- Cyprus New Agency Architectural Competition**  
*Domes. International Review of Architecture*, Volume 01/2012, Athens, Greece, pp. 72-73 [2 p.], in Greek
- 2003 **Filekpedeftiki Eteria, Arsakeio Tirana greek-albanian school**  
*4<sup>th</sup> Pan-Hellenic Exhibition of Architectural Work, Coastal areas and Urban events*, Association of Architects of the Prefecture of Achaia, Patra, Greece, November 2003, pp. 130-131 [2 p.], in Greek and in English
- Architectural Design Competitions, Sports Center of Mesa Geitonia**  
*Cyprus Architects Association Information Bulletin*, Volume 68, Nicosia, Cyprus, November 2003, pp. 22-23 [2 p.], in Greek
- Architectural Design Competitions, Headquarter building of O.G.H.E.F. (Organization of Greek Higher Education Functionaries)**

*Cyprus Architects Association Information Bulletin*, Volume 66, Nicosia, Cyprus, March 2003, p. 17 [1 p.], in Greek

- **Unpublished research reports**

2012 **Kontovourkis, O.**, 2012. Pedestrian movement behaviour 3D computer model based on 'virtual forces' as mechanism for design investigation within an educational context. *Contribution in the Final Report of COST Action TU0801: Semantic enrichment of 3D city models for sustainable urban development*, [5 p.] [submitted: 25.10.2012]

2011 **Kontovourkis, O.**, 2011. Adaptive structural system. *Contribution in the recap of all the work under the cluster: Use the force of the Smart Geometry workshop 2011. Work was planned to be posted on the Smart Geometry: SG website* [2 p.] [submitted: 20.04.2011]

**Kontovourkis, O.**, 2011. Pedestrian modeling in 3D environment. In: R.Billen, O. Marina, I. Yatskiv, R. San José, eds., *Contribution in the intermediate report of Working Group 1: Identification and semantic analysis of issues and models of COST Action TU0801: Semantic enrichment of 3D city models for sustainable urban development* [8 p.][version: 01.04.2011]

- **Unpublished academic theses**

1999 **Laboratories for the restoration of ancient shipwrecks in Ermioni**  
Diploma of Architect Engineer Thesis, March 1999, Grade: 9.90/10.0 (Excellent)  
Field of Architectural Design, Department of Architecture, National Technical University of Athens, Athens, Greece, Supervisor: T.Papaioannou

1998 **The Kerynia ship. Learning about the ancient ship construction**  
Diploma of Architect Engineer Lecture, May 1998, Grade: 10.0/10.0 (Excellent)  
[In collaboration with Pavlou, S.]  
Field of Building Construction, Department of Architecture, National Technical University of Athens, Athens, Greece, Supervisor: P. Touliatos

## SECTION D

### INVITED LECTURES AND RESEARCH PRESENTATIONS

- **Invited lecture**
- 2015 ***Human behaviour input driven embedded computation as mechanism for the development and control of adaptive architectural systems***  
Public Lecture, 06.08.2015  
European Architecture Students Assembly: EASA 2015, Valletta, Malta [Skype Presentation]
- 2014 ***Digital constructive mechanisms and creative thinking***  
Public Lecture, 28.12.2014  
Tell-Tales Event [Organized by Tellalis], Part of Nicosia Pop Up Festival 2014,  
Nicosia Municipality and Nicosia Municipal Art Centre, Nicosia, Cyprus
- 2010 ***Experiencing the architecture of Tadao Ando***  
Public Lecture, 22.10.2010  
Architecture Research Center, University of Nicosia, Cyprus
- **Research presentations**
- 2006 ***Computer-Generated Architectural Networks***  
Research Seminars Series, 25<sup>th</sup> of January, 2006  
Department of Architecture and Civil Engineering University of Bath, UK
- 2005 ***Biomimetics and Architecture. Cities and Buildings of the future***  
Lecture in Biomimetics group of Professor Julian Vincent, 01/08/2005  
Department of Mechanical Engineering, University of Bath, Bath, UK
- 2001 ***Temporary-Permanent. Proposal for 13<sup>th</sup> Takiron International Design Competition***  
Lecture as part of Architecture Design Lectures, December 2001  
Kyoto City University of Arts, Kyoto, Japan
- Static-Dynamic analysis and design creation. Dynamic continuity and form***  
Lecture as part of Architecture Design Lectures, December 2001  
Kyoto City University of Arts, Kyoto, Japan
- Exercise of Design Shear wall by using LS-DYNA***  
Lecture for Research Laboratory Staffs, October 2001  
DAIWA HOUSE Company, Research Laboratory, Osaka, Japan
- **Other presentations**
- 2001 ***Light and movement in Ando's buildings. Church of the light in Osaka and Garden of Fine Arts in Kyoto (安藤忠雄の建築における光と動き)***  
Presentation to Japanese Language students, February 2001  
Japanese Language Center, Osaka University, Osaka, Japan

### CONFERENCE PRESENTATIONS

- 2018 ***CP33. Dual-user interaction in virtual environment towards robotic construction of masonry systems [Presentation]***  
*CIB\*IAARC W119 International Conference on Smart, Sustainable and Sensuous Settlements Transformation (3SSettlements) 2018 Workshop.* Technical University of Munich, Munich, Germany, 07-08.03.2018
- 2017 ***CP32. Multi-objective design optimization and robotic fabrication towards sustainable construction - The example of a timber structure in actual scale [Presentation]***  
*35th Conference on Education in Computer Aided Architectural Design in Europe: ShoCK! - Sharing Computational Knowledge!*, Sapienza University of Rome, Rome, Italy, 20-22.09.2017
- CP31. A robotically-driven additive construction planning process using an ecological material. The introduction of 3D clay printing for large scale construction [Presentation by associate]***



- 2016
- 5th eCAADe Regional International Symposium: The Virtual and the Physical. Between the representation of space and the making of space*, Cardiff University, Wales, UK, 26-28.04.2017
- CP30. Modular formwork system layout development and assembly in actual scale based on robotic technology [Presentation]**  
*S2M 2016 International Conference on Sustainable Smart Manufacturing*, University of Lisbon, Lisbon, Portugal, 20-22.10.2016
- CP29. Configuration and deformation control of a hybrid cable bending-active structure [Presentation by associate]**  
*MARAS 2016, 5th International Conference on Mobile, Adaptable and Rapidly Assembled Structures*, Siena, Italy, 21-23.09.2016
- CP28. High-Rise Airflow Structural Concept [Presentation by associate]**  
*Design & Nature 2016: 8th International Conference on Comparing Design in Nature with Science and Engineering*, New Forest, UK, 13-15.09.2016
- CP27. Optimization Process Towards Robotic Manufacturing in Actual Scale - The Implementation of Genetic Algorithms in the Robotic Construction of Modular Formwork Systems [Presentation]**  
*34th Conference on Education in Computer Aided Architectural Design in Europe: Complexity & Simplicity*, University of Oulu, Oulu, Finland, 22-26.08.2016
- CP26. Architectural synergies: Participatory design and construction of a pavilion prototype [Presentation]**  
*10<sup>th</sup> International Conference on Architectural Research EAAE/ARCC: Architectural Research Addressing Societal Challenges*, University of Lisbon, Lisbon, Portugal, 15-18.06.2016
- CP25. Development of physical control and virtual navigation mechanisms to enhance active collaboration between architects and clients in a reactive digital space [Presentation by associate]**  
*4th eCAADe Regional International Workshop: Between computational models and performative capacities*, University of Novi Sad, Novi Sad, Serbia, 19-20.05.2016
- 2015
- CP24. Lighting performance simulation and adaptive control of an advanced building skin based on human behaviour inputs [Presentation by associate]**  
*10th Conference on Advanced Building Skins*, Bern, Switzerland, 3-4.11.2015
- CP23. Integration of a lightweight plug-in adaptive envelope to maximize performance of natural lighting of existing buildings [Presentation by associate]**  
*10th Conference on Advanced Building Skins*, Bern, Switzerland, 3-4.11.2015
- CP22. Robotic Fabrication of Tensile Mesh Structures and Real Time Response. The Development and Simulation of a Custom-Made End Effector Tool [Presentation with G. Tryfonos]**  
*33th Conference on Education in Computer Aided Architectural Design in Europe: Real Time - Extending the Reach of Computation*, Technical University of Wien, Wien, Austria, 16-18.09.2015
- CP21. An additive robotic fabrication methodology for tensile mesh structures development [Presentation]**  
*International Association of Shell and Spatial Structures (IASS) 2015 Annual Symposium on Future Visions*, Amsterdam, The Netherlands, 17-10.08.2015
- CP20. A robotically driven methodology for the construction of an adaptive modular system [Presentation]**  
*International Association of Shell and Spatial Structures (IASS) 2015 Annual Symposium on Future Visions*, Amsterdam, The Netherlands, 17-10.08.2015
- CP19. Adaptive building skin development and wireless gesture--oriented control [Presentation by associate]**  
*3<sup>rd</sup> eCAADe Regional International Workshop: Computational Morphologies - Design rules between Nature model and responsive Architecture Computational Morphologies*, Politecnico di Milano, Milan, Italy, 14-15.05.2015

- 2014
- CP18. Physical input-driven offline robotic simulation through a feedback loop process [Presentation with G. Tryfonos]**  
32th Conference on Education in Computer Aided Architectural Design in Europe: Fusion - Data Integration at its best, Northumbria University, Newcastle upon Tyne, U.K., 10-12.09.2014
- CP17. Integrative Pedestrian Modelling Techniques based on Virtual Force Fields: Analysis, Generation and Evaluation in Public Open Spaces [Presentation with D. Anagiotou]**  
32th Conference on Education in Computer Aided Architectural Design in Europe: Fusion - Data Integration at its best, Northumbria University, Newcastle upon Tyne, U.K., 10-12.09.2014
- CP16. Informed design strategy for the development of a reconfigurable modular structure [Presentation with P. Konatzii]**  
ENHSA International Conference What's the matter: Materiality and Materialism at the Age of Computation, COAC; ETSAB; ETSAB, Barcelona, Spain, 4-6.09.2014
- CP15. Structural and construction design of a cable bending-active structure [Presentation by associate]**  
4th International Conference on Mobile, Adaptable and Rapidly Assembled Structures: MARAS 2014, Wessex Institute of Technology & Vrije Universiteit Brussel, Ostend, Belgium, 11-13.06.2014
- 2013
- CP14. Parametric design of a high-rise habitation unit system through lighting and solar energy performances [Presentation]**  
International Conference Ecological Architecture 2013, Kaunas University of Technology, Kaunas, Lithuania, 24.10.2013
- CP13. Physical data computing in adaptive design process [Presentation]**  
International Conference on Adaptation and Movement in Architecture: ICAMA 2013, Ryerson University, Toronto, Canada, 11-12.10.2013
- CP12. Design of a Controlled Cable Bending-Active Structure [Presentation by associate]**  
International Conference on Adaptation and Movement in Architecture: ICAMA 2013, Ryerson University, Toronto, Canada, 11-12.10.2013
- CP11. Innovative in environmental-based architectural education through digital experimentation and construction workshop [Presentation by associate]**  
ENHSA International Conference Architectural Education in the Reality of the Ideal: Environmental design for innovation in the post-crisis world, Naples, Italy, 3-5.10.2013
- CP10. Adaptive Prototyping Process as Mechanism Towards a Holistic Architectural Design [Presentation]**  
Prototyping Architecture International Conference, Building Centre Trust and Architecture & Tectonics Research Group of the University of Nottingham, London, UK, 21-23.02.2013
- 2012
- CP09. Recess**  
**[Poster presentation in collaboration with Eike Brueckner and Fransesco Pisasale]**  
**[The project was developed in the frame of Brick Design Workshop at Gramazio & Kohler Architecture and Digital Fabrication, ETH Zurich, 14-16.12.2012]**  
1<sup>st</sup> International Conference on Robotic Fabrication in Architecture, Art, and Design: Rob|Arch2012, Semperdepot, Vienna, Austria, 17-18.12.2012
- CP08. Virtual Forces in Design and Fabrication Process: Assembly and Construction of Physical Prototypes [Presentation]**  
30th Conference on Education in Computer Aided Architectural Design in Europe: Digital Physicality | Physical Digitality, Czech Technical University in Prague, Prague, Czech Republic, 12-14.09.2012
- 2011
- CP07. Pedestrian Modeling and Circulation Diagrams in Three-Dimensional Built Environment [Presentation]**  
European Research Program COST, Action TU0801: Semantic enrichment of 3D city models for sustainable urban development

Curriculum Vitae [06.2018]

- 11<sup>th</sup> International Conference 'Reliability and Statistics in Transportation and Communication' (RelStat' 11) and Working Groups Meeting, Riga: Transportation and Telecommunication Institute, Latvia, 19-22.10.2011
- CP06. Pedestrian modeling as generative mechanism for the design of adaptive built environment [Presentation]**  
29th Conference on Education in Computer Aided Architectural Design in Europe: Respecting Fragile Places, Ljubljana: University of Ljubljana, Slovenia, 21-24.09.2011
- CP05. Integrated Design of a Kinetic Prototype Structure [Presentation by associate]**  
Adaptive Architecture: An International Conference at the Building Centre, London: Building Centre Trust and the University of Nottingham, United Kingdom, 03-05.03.2011
- 2010 **CP04. Computer-generated circulation diagrams in macro-scale design investigation [Presentation]**  
28th Conference on Education in Computer Aided Architectural Design in Europe (eCAADe): Future Cities, ETH Zurich, Zurich, Switzerland, 13-17.09.2010
- 2009 **CP03. Limitations and Potentials of fabrication Machinery: The example of a Free-Form Design [Presentation]**  
File to Factory (F2F) International Conference: The Design and Fabrication of innovative forms in a continuum, Center for Mediterranean Architecture (CMA), Chania, Crete, Greece, 03-04.09.2009
- CP02. Establishing a digital fabrication laboratory and integrating it with architectural design [Presentation with D. Economides]**  
ENHSA/EAAE Conference: Architectural Design and Construction Education Experimentation towards integration, Faculty of Architecture, University of Genoa, Genoa, Italy, 11-13.06.2009
- 2005 **CP01. Spatial Networks and Architecture [Poster Presentation]**  
Networks and Dynamical processes, The Bath Institute for Complex Systems, University of Bath, Bath, UK, 27-28.06.2005

**OTHER CONFERENCE PARTICIPATIONS**

- 2018 **OCP10.** European Research Program COST, Action CA16114: Rethinking Sustainability towards a Regenerative Economy  
**Working Group 3 Workshop Meeting**, Koper, Slovenia, 13-14.06.2018
- OCP09.** European Research Program COST, Action CA16114: Rethinking Sustainability towards a Regenerative Economy  
**Working Groups and Management Committee Meeting**, Budapest, Hungary, 13.02.2018
- 2017 **OCP08.** European Research Program Optimization Driven Architectural Design of Structures (OptArch)  
**Partners Research Meeting**, Athens, Greece, 11-12.09.2017
- 2012 **OCP07.** European Research Program COST, Action TU0801: Semantic enrichment of 3D city models for sustainable urban development [Final Conference]  
**3u3d2012: Usage, Usability, and Utility of 3D Urban Models Conference**, École Nationale Supérieure d'Architecture de Nantes, Nantes, France, 29-31.10.2012
- OCP06. Advance in Architectural Geometry 2012 Symposium Conference:AAG2012**, Paris, France, 27-28.09.2012
- OCP05.** European Research Program COST, Action TU0801: Semantic enrichment of 3D city models for sustainable urban development  
**Workshop: 3D issues in environmental and urban systems**, Working Groups and Management Committee Meeting, Technical University of Madrid (UPM), Madrid, Spain, 12-13.04.2012
- 2011 **OCP04.** European Research Program COST, Action TU0801: Semantic enrichment of 3D city models for sustainable urban development  
**Working Groups and Management Committee Meeting**, ESF Brussels, Belgium, 28-29.04.2011

Odysseas Kontovourkis, Ph.D., Assistant Professor / Department of Architecture, University of Cyprus

Curriculum Vitae [06.2018]

- OCP03.** *Smart Geometry Talkshop and Symposium 2011: Building the invisible. Informing digital design with real world data*, IT University of Copenhagen, Copenhagen, Denmark, 01-02.04.2011
- 2010      **OCP02.** European Research Program COST, Action TU0801: Semantic enrichment of 3D city models for sustainable urban development  
*Conference VIS2010 and Working Groups Meeting*, University of Algarve, CIEO, Faro, Portugal, 4-5.11.2010
- 2009      **OCP01.** European Research Program COST, Action TU0801: Semantic enrichment of 3D city models for sustainable urban development  
*Workshop: A Global View on Semantic Enrichment of 3D Urban Models*, Working Groups and Management Committee Meeting, University of Liege, Liege, Belgium, 23-24.11.2009

## SECTION E

### TEACHING

- **Assistant Professor, Department of Architecture, University of Cyprus (UCY)**
- Since 2012 ***Advanced Computer-Aided Design Topics (ARH-522)***  
***Department of Architecture, University of Cyprus, Fall 2012; 2013; 2014 [Lecturer], Fall 2015; 2016; 2017 [Assistant Professor]***  
Postgraduate course that focuses on advanced digital design and fabrication processes (CAD/CAM) and particularly on the development of advanced computational mechanisms that can be applied in complex, non-standard spatial and structural design research. Topics include generative design, adaptive process, interactive design, and optimization processes. Specialized technical skills of algorithmic design and physical computing (Robotics) are provided. Software and plug-ins include: Rhino/Grasshopper, Firefly, gHowl, Processing, Arduino  
The lecturer is responsible for developing and organizing the syllabus and the overall course structure, for teaching software and plug-ins, and for supervising projects  
Students: Diploma and PhD students of the Department of Architecture (Approx. 10-15 students per semester)
- Since 2010 ***Advanced Computer-Aided Design (ARH-421)***  
***Department of Architecture, University of Cyprus, Spring 2010 [Part-time Adjunct Faculty], Spring 2011; 2012; 2013; 2014 [Lecturer], Spring 2015; 2016; 2017 [Assistant Professor]***  
Undergraduate course that focuses on the use of computer software and fabrication machinery as tools for architectural design, prototyping and communication. Emphasis is given on the use of parametric-associative design as generative tool to investigate and optimize solutions in various architectural issues. Topics include 3d nurbs modeling, parametric-associative design, rapid prototyping and laser cutting. Software and plug-ins include: Rhino/Grasshopper  
The lecturer is responsible for developing and organizing the syllabus and the overall course structure, for teaching software and plug-ins, and for supervising projects  
Students: Undergraduate students of the Department of Architecture (Approx. 10-20 students per semester)
- Since 2009 ***Digital Architectural Communication Media (ARH-220)***  
***Department of Architecture, University of Cyprus, Fall 2009 [Part-time Adjunct Faculty], Fall 2010; 2011; 2012; 2013; 2014 [Lecturer], Fall 2015; 2016; 2017 [Assistant Professor]***  
Undergraduate course that offers a first understanding of architectural design software (CAAD) in three dimensional (3d) and two dimensional (2d) spaces as well as in digital fabrication techniques. Topics include 3d architectural elements and solid modeling, 2d production and design, rendering and visualization, digital design and fabrication (Laser cutting and Hot Wire Foam cutting). Software include: Nemeteck Allplan, AutoCAD Architecture Desktop, 3D Studio Max  
The lecturer is responsible for developing and organizing the syllabus and the overall course structure, for teaching software and plug-ins, and for supervising projects  
Students: Undergraduate students of the Department of Architecture (Approx. 30-35 students per semester)
- 2009-2011 ***Computer-Aided Design (ARH-320)***  
***Department of Architecture, University of Cyprus, Fall 2009 [Part-time Adjunct Faculty], Fall 2010; 2011 [Lecturer]***  
Undergraduate course that offers a first understanding of computer-aided design software (CAD) in three dimensional and two dimensional spaces for modeling and visualizing structural systems and buildings. Topics include 3d architectural elements and solid modeling, 2d production and design, rendering and visualization. Software include: Nemeteck Allplan and AutoCAD Architecture Desktop.  
The lecturer is responsible for developing and organizing the syllabus and the overall course structure, for teaching software and plug-ins, and for supervising projects  
Students: Undergraduate students of the Department of Civil and Environmental Engineering (Approx. 40 students per semester)
- Introduction to Architecture (ARH-110)***

Since 2010 *Department of Architecture, University of Cyprus, Fall 2010; 2011; 2012; 2013; 2014 [Lecturer] Fall 2015; 2016 [Assistant Professor]*

Undergraduate course co-taught with the other faculty members. Coordinator: M. Philokyprou (Fall 2010, 2011, 2012, 2013); C. Hatjichristos (Fall 2014), Lecturer, Department of Architecture, University of Cyprus

The lecturer is responsible for 1-2 lecturers focusing on the use of digital tools in architectural design. Topics include: a. *Digital Media in Architecture*, b. *Digital Media and Parameters in Architectural Design*

- **Assistant Professor, Department of Architecture, University of Nicosia (UNIC)**

2009-2010 *Advanced Computer-Aided Design & Mixed Media (ARCH-362)*

*Department of Architecture (Program of Architecture), University of Nicosia, Spring 2010*

Undergraduate course focuses on the advanced capabilities of digital design tools for generation, evaluation, and representation. Topics include 3d modeling, parametric-associative design and digital fabrication (3d printing, milling, and laser cutting). Software and plug-ins include: Rhino/Grasshopper.

Lecturer responsible for developing and organizing the syllabus and the overall course structure, for teaching software and plug-ins, and for supervising project

Students: Undergraduate students of the Department of Architecture (Program of Architecture), University of Nicosia, (Approx. 20 students per semester)

*Advanced Computer-Aided Design (ARCH-262 & ARCH-241)*

*Department of Architecture (Program of Architecture), University of Nicosia, Spring 2009; 2010*

Undergraduate courses focus on the theoretical and practical framework of digital design with emphasis on 3d modeling techniques. Topics include 3d modeling, transformation, meshing, algorithmic design thinking, 3d printing and milling. Software include: 3DStudio Max

Lecturer responsible for developing and organizing the syllabus and the overall course structure, for teaching software and for supervising project

Students: Undergraduate students of the Department of Architecture (Program of Architecture), University of Nicosia, (Approx. 35 students per semester)

2008-2009 *Advanced Computer-Aided Design & Mixed Media (ARCH-341 & DES-341)*

*Department of Architecture (Program of Architecture & Interior Design), University of Nicosia, Spring 2009 [ARCH-341], Fall 2008; 2009 [DES-341]*

Undergraduate course focuses on the 3d modeling and presentation offered by graphic and animation software. Topics include 3d modeling and settings of colors, textures, materials, light sources and rendering. Software include: 3DStudio Max

Lecturer responsible for developing and organizing the syllabus and the overall course structure, for teaching software and for supervising project

Students: Undergraduate students of the Department of Architecture (Program of Architecture & Program of Interior Design), University of Nicosia, (Approx. ARCH-341 Spring 2009: 5, DES-341 Fall 2008: 9, DES-341 Fall 2009:17 students per semester)

*Computer-Aided Design (DES-175 & ARCH-261)*

*Department of Architecture (Program of Interior Design & Program of Architecture), University of Nicosia, Fall 2008 [DES-175], Fall 2009 [ARCH-261]*

Undergraduate courses focus on basic capabilities of computerized design, three-dimensional (3d) architectural modeling and two-dimensional (2d) architectural design, rendering, layout and presentation. Topics include 3d architecture elements and solid modeling, 2d architectural design, and visualization. Software include: Nemetchek Allplan

Lecturer responsible for developing and organizing the syllabus and the overall course structure, for teaching software and for supervising project

Students: Undergraduate students of the Department of Architecture (Program of Interior Design & Program of Architecture), University of Nicosia, (Approx. DES-175 Fall 2008:27, ARCH-261 Fall 2009: 33 students per semester)

*Computer Utilities for Interior Design (DES-241)*

*Department of Architecture (Program of Interior Design), University of Nicosia, Spring 2009*

Undergraduate course focuses on the theoretical and practical framework of digital design with emphasis on 3d modeling techniques. Topics include 3d modeling, transformation, meshing, 3d printing and milling. Software include: 3DStudio Max

Lecturer responsible for developing and organizing the syllabus and the overall course structure, for teaching software and for supervising project

Students: Undergraduate students of the Department of Architecture (Program of Interior Design), University of Nicosia, (Approx. 23 students per semester)

***Architectural Design V, Building Technology (ARCH-304)***

***Department of Architecture (Program of Architecture), University of Nicosia, Spring 2009***

Replace academic staff for two weeks: 23.03 – 30.03.2009

***Foundation course in Architecture***

***UNISKO Programme University of Nicosia, Summer 2009: 26.08-23.09.2009***

Foundation course in Architecture focusing on 2D Computer-Aided Design skills using the software Nemetchek Allplan

Lecturer responsible for developing and organizing the syllabus, the overall course structure and for teaching software

***Invited lecturer in other courses***

***Department of Architecture (Program of Architecture), University of Nicosia, Fall 2009***

***Rethinking Architecture (ARCH-451)***, Topic: Parametric-based design, 14.12.2009

***Architectural Design VI (ARCH-401)***, Topic: Introduction to Digital Design with emphasis on Fabrication, 03.11.2009

## SUPERVISION

**- PhD Thesis [1<sup>st</sup> Supervisor]**

Since 2014 Panagiota Konatzii. *Robotically automated design and manufacturing using a flexible kinetic formwork*, PhD Thesis, UCY [In progress – Since Spring 2014]

Since 2013 George Tryfonos. *Feedback-driven digital and physical prototyping: Design, materiality and robotic machine interaction*, PhD Thesis, UCY [In progress – Since Spring 2013]

**- Master Thesis [Program: Energy Technologies and Sustainable Design] [1<sup>st</sup> Supervisor]**

2012-2013 Vasiliki Sarvani. *Investigation of lighting and solar energy performance in high-rise habitation unit systems through parametric design*, Master Thesis (M.Sc.), UCY [Completed – May 2013]

**- Diploma Thesis [1<sup>st</sup> Supervisor]**

2016-17 Constantinos Katsambas. *Topology optimization in fabrication process*, Diploma Thesis, UCY [Completed – May 2017]

Sofia Stylianou. *Ecological fabrication for sustainable design: Artificial structures in the protected environment of Akamas peninsula*, Diploma Thesis, UCY [Completed – Spring 2017]

Elpida Kyriakou. *Mass customization for home design and fabrication with the involvement of users*, Diploma Thesis, UCY [Completed – May 2017]

2015-16 Philippos Michael. *AFI – Analyse, Fabricate, Inhabit: Remote analysis & Robotic fabrication with the use of local material*, Diploma Thesis, UCY [Completed – May 2016]

Konstantinos Chatzimanolis. *Water cycle seascape: Higher integration synthesis*, Diploma Thesis, UCY [Completed – May 2016]

Michaelina Stylianou. *Racetrack complex: Street – Speed – Sport [3S]*, Diploma Thesis, UCY [Completed – May 2016]

Christina Petrou. *Architectural intervention in the archaeological site of Amathounta*, Diploma Thesis, UCY [Completed – Fall 2015]

2014-15 Neofytos Dimitriou. *Architectural connection between city and sea in the area between the two ports of Limassol*, Diploma Thesis, UCY [Completed – Spring 2015]

Stavros Frangogiannopoulos. *Adaptive structural prototype for large scale buildings*, Diploma Thesis, UCY [Completed – Spring 2015]

Georgios Papiotis. *Cybernetic device*, Diploma Thesis, UCY [Completed – Fall 2014]

2013-14 Ifigenia Lambrou. *Mutative adaptive prototype with learning abilities*, Diploma Thesis, UCY [Completed – May 2014]

- Gergia Kyriakidou. *Form-finding process and the generation of spatial networks*, Diploma Thesis, UCY [Completed – May 2014]  
Iliana Petrou. *Adaptation and landscape: Study of adaptive architecture in specific morphologies through tension and compression*, Diploma Thesis, UCY [Completed – May 2014]  
Despo Anagiotou. *Human movement behavior for space generation through interactive fields*, Diploma Thesis, UCY [Completed – Fall 2013]  
Stella Hadjicharalambous. *Force distribution mega structure by salt layer analysis in Larnaka Aliki salt lake*, Diploma Thesis, UCY [Completed – Fall 2013]
- 2012-13 Panagiota Konatzii. *Self-formation and kinetic construction system*, Diploma Thesis, UCY [Completed – May 2013]  
*[Selected project as one of the 36 best design projects in Transformables 2013 student competition, Seville, Spain, 2013]*  
Melina Antoniou. *Networking the interactivity*, Diploma Thesis, UCY [Completed – May 2013]  
Ifigeneia Neofytou. *Structural swarming in see caves*, Diploma Thesis, UCY [Completed – May 2013]
- 2011-12 George Tryfonos. *Air adaptive shelter. Heuristic, adaptive in-direct system*, Diploma Thesis, UCY [Completed – May 2012]  
*[Awarded Honorable Mention - L. and T. David Prize]*  
Anastasia Gkini. *Unifying design through collective intelligence*, Diploma Thesis, UCY [Completed – May 2012]  
Angela Charalambous. *Architecture in service of sound environment*, Diploma Thesis, UCY [Completed – May 2012]
- 2010-11 Joanna Theodosiou. *iZenobia Museum - Interactive Architecture*, Diploma Thesis, UCY [Completed – May 2011]  
*[Awarded Honorable Mention - L. and T. David Prize]*  
Marina Constantinou. *Evolutionary and Emergence Architecture - Archaeological Site of Amathounta*, Diploma Thesis, UCY [Completed – May 2011]
- **PhD Thesis [Member of the Examination Committee]**
- 2018 Kristis Alexandrou, *Hybrid cable bending-active systems*, PhD Thesis, UCY [1<sup>st</sup> Supervisor: M.C. Phocas] [Completed – April 2018]  
Constantinos Vassiliades, *Building integration of active solar energy systems in all design scales*. PhD Thesis, UCY [1<sup>st</sup> Supervisor: A. Savvides] [Completed – April 2018]
- 2014 Maria Matheou. *Kinetic Hybrid Structures*, PhD Thesis, UCY [1<sup>st</sup> Supervisor: M.C. Phocas] [Completed – May 2014]
- 2013 Stefanos Anastasiou. *Double curved building envelopes: Design and construction methods*, PhD Thesis, Aristotle University of Thessaloniki (AUTH) [1<sup>st</sup> Supervisor: A. Kotsiopoulos] [Completed – March 2013]
- 2012 Tonia Sofocleous-Lemonari. *Adaptable Dual Control Systems*, PhD Thesis, UCY [1<sup>st</sup> Supervisor: M.C. Phocas] [Completed – Fall 2012]
- **Master Thesis [Program: Energy Technologies and Sustainable Design] [Member of the Examination Committee]**
- 2016-17 Stella Athini, *Adaptive structure from scissor and cable bending active members*, Master Thesis (M.Sc.) [1<sup>st</sup> Supervisor: M.C. Phocas], UCY [Completed – May 2017]  
Christina Zakou, *Design and analysis of an adaptive bending-active gridshell*, Master Thesis (M.Sc.) [1<sup>st</sup> Supervisor: M.C. Phocas], UCY [Completed – December 2016]
- 2014-15 Katerina Galactiou, *Adaptive envelope system*, Master Thesis (M.Sc.) [1<sup>st</sup> Supervisor: M.C. Phocas], UCY [Completed – July 2015]
- **Diploma Thesis [2<sup>nd</sup> or 3<sup>rd</sup> Supervisor]**
- 2016-17 Charalambos Proestos, *Dual soft structural envelope system*, Diploma Thesis [1<sup>st</sup> Supervisor: M.C. Phocas], UCY [Completed - May 2017]  
Fotis Tilemahou, *Novus Mundus: A life support facility for Mars colonization*, Diploma Thesis [1<sup>st</sup> Supervisor: M.C. Phocas], UCY [Completed - May 2017]



- Mpyrros Andreas, *2 the rescue. Facing flood: Design for an emergency shelter*, Diploma Thesis [1<sup>st</sup> Supervisor: A.Michael], UCY [Completed - May 2017]  
Elena Koufopavlou, *The path experience of Athienou*, Diploma Thesis [1<sup>st</sup> Supervisor: P. Pyla], UCY [Completed - May 2017]
- 2015-16 Nikolaou Kyriakos, *An attempt to upgrade existing transportation infrastructure in Cyprus*, Diploma Thesis [1<sup>st</sup> Supervisor: A. Savvides], UCY [Completed – May 2016]  
Antri Lysandrou, *Active Air – Regeneration Façade Prototype*, Diploma Thesis [1<sup>st</sup> Supervisor: M.C. Phocas], UCY [Completed – May 2016]  
*[Awarded Honorable Mention - L. and T. David Prize]*
- 2014-15 Styliana Grigoriou. *Plugged-In Adaptive EcoRoof*, Diploma Thesis [1<sup>st</sup> Supervisor: A.Michael], UCY [Completed –Spring 2015]  
Aggeliki Koutsodimitropoulou. Diploma Thesis [1<sup>st</sup> Supervisor: C. Hadjichristos], UCY [Completed – Fall 2014]
- 2013-14 Niki Georgiou. High-rise airflow building prototype, Diploma Thesis [1<sup>st</sup> Supervisor: M.C. Phocas], UCY [Completed – May 2014]  
*[Awarded Honorable Mention - L. and T. David Prize]*  
Rafaela Pavlou. *Kinetic prototype unit for extreme environments*, Diploma Thesis [1<sup>st</sup> Supervisor: M.C. Phocas], UCY [Completed – May 2014]  
Niki Pirikki. *Bending-active tensile building envelope*, Diploma Thesis [1<sup>st</sup> Supervisor: M.C. Phocas], UCY [Completed – May 2014]
- 2012-13 Kristis Alexandrou. *Adaptive Structural Prototype*, Diploma Thesis [1<sup>st</sup> Supervisor: M.C. Phocas], UCY [Completed – May 2013]  
*[Awarded Honorable Mention – International Students Competition Transformable 2013]*  
George Kyriazis. *Polychronic Waterscapes*, Diploma Thesis [1<sup>st</sup> Supervisor: N. Charalambous], UCY [Completed – May 2013]  
Kleopatra Papapetrou. Diploma Thesis [1<sup>st</sup> Supervisor: C. Hadjichristos], UCY [Completed – May 2013]
- 2011-12 Nicky Nicolaou. Diploma Thesis [1<sup>st</sup> Supervisor: M.C. Phocas], UCY [Completed – May 2012]  
Chrystalla Argyrou. Diploma Thesis [1<sup>st</sup> Supervisor: M. Philokyprou], UCY [Completed – May 2012]  
Chrysanthi Konstantinou. Diploma Thesis [1<sup>st</sup> Supervisor: S. Stratis], UCY [Completed – May 2012]
- 2010-11 Anastasios Ioannou. *Swarm INform. Inter-responsive architectural adaptive system*, Diploma Thesis [1<sup>st</sup> Supervisor: M.C. Phocas], UCY [Completed – May 2011]  
Maria Gabriel. *Kinetic energy architectural systems*, Diploma Thesis [1<sup>st</sup> Supervisor: M.C. Phocas], UCY [Completed – May 2011]  
*[Awarded Honorable Mention - L. and T. David Prize]*
- 2009-10 Maria Matheou. *Interactive kinetic architecture*, Diploma Thesis [1<sup>st</sup> Supervisor: M.C. Phocas], UCY [Completed – May 2010]  
*[Awarded 1<sup>st</sup> Prize - L. and T. David Prize]*

## WORKSHOPS ORGANIZED

- 2018 ***Computational design and robotic fabrication workshop***, 2-13.07.2018 [Youth Makerspace (ONEK), Larnaka]  
Students and young architects Summer Workshop, Cyprus Architects Association [organizer], University of Cyprus [scientific supervision], Paralimni Municipality [sponsor]  
Workshop Director and Instructor: Odysseas Kontovourkis
- 2016 ***Synergetic Multi-Objective Design and Construction of Timber Pavilion Prototypes workshop***, 21.06-08.07.2016 [Department of Architecture, UCY & Elementary Schools of Agios Andreas, Chryseleousas & Tamasou and Pera Orinis]  
Students Summer Workshop, Department of Architecture, UCY  
Workshop Coordinator: Amilios Michael, Workshop Co-organizers: Odysseas Kontovourkis & Marios C. Phocas

- 2015 ***Synergetic Multi-Objective Design and Construction of Timber Pavilion Prototypes workshop***, 06-24.07.2015 [Department of Architecture, UCY & Elementary School Hadjigeorgakis Kornosios]  
Students Summer Workshop, Department of Architecture, UCY  
Workshop Coordinator: Amilios Michael, Workshop Co-organizers: Odysseas Kontovourkis & Marios C. Phocas
- 2012 ***Digital design and construction workshop***, 8-9.06.2012 [Department of Architecture, UCY] & 21-28.06.2012 [Paralimni]  
Students and young architects Summer Workshop, Cyprus Architects Association [organizer], University of Cyprus [scientific supervision], Paralimni Municipality [sponsor]  
Workshop Directors and Instructors: Odysseas Kontovourkis and Amilios Michael
- 2011 ***Differential Porosity***, Parametric-associative design logic workshop, 22.08 – 01.09.2011  
International Workshop, Department of Architecture, University of Cyprus  
Workshop Director: Marco Verde  
Workshop Instructors: Odysseas Kontovourkis and Marco Verde
- 2010 ***Parametric-associative design logic workshop***, 12-15.05.2010  
Integrated with ARCH-341 Advanced Computer-Aided Design & Mixed Media, Department of Architecture, University of Nicosia, Spring 2010  
Workshop Director: Marco Verde, Assistant Professor in Hyperbody Research group, TU Delft, Workshop Instructors: Odysseas Kontovourkis and Marco Verde

#### **COURSES AND WORKSHOPS REVIEWER**

- 2013 Diploma projects, May 2013  
Department of Architecture, Frederick University [External Reviewer]
- Since 2010 Mid-term and Final presentation of design studio, construction and other courses  
Department of Architecture, University of Cyprus [Reviewer]
- 2010 Repetition Vs Replication: Parametric Design + Digital Fabrication Workshop, 03.12.2010  
Architecture Research Center, University of Nicosia [Member of the jury committee]
- 2008 - 2010 Mid-term and Final presentations of studio and other courses  
Department of Architecture, University of Nicosia [Reviewer]

## SECTION F

### DESIGN COMPETITION ENTRIES AND PROJECT AWARDS

- 2016 Second nature  
Title of entry: *Robotic construction for ecological coexistence*  
**Competition Entry**  
In collaboration with George Tryfonos, Panagiota Konatzii and Stella Christofi
- 2014 Plasticity: International digital design to fabrication competition, Tex-Fab  
Title of entry: *Force-based surface plasticity*  
**Competition Entry**  
In collaboration with George Tryfonos and Panagiota Konatzii
- 2013 Skin Competition: International two-stage digital fabrication competition, Tex-Fab  
Title of entry: *Adaptive inflatable façade*  
**Competition Entry**  
In collaboration with George Tryfonos
- 2011 *Larnaka Municipality Market and Parking*, Larnaca, Cyprus, Architectural Competition  
**Competition Entry**  
In collaboration with Amilios Michael, Vasilis Ierides, Christos Hadjichristos, Panayiotis Papadimatos, Maria Xenophontos, Maria Kouppi, Christodoulos Christodoulou, Anna Evripidou  
*Limassol Municipality Office Building*, Limassol, Cyprus, Architectural Competition  
**Competition Entry**  
In collaboration with Amilios Michael, Vasilis Ierides, Andreas Savvides, Christos Hadjichristos, Panayiotis Papadimatos, Maria Xenophontos
- 2010 *Cyprus News Agency at Nicosia*, Cyprus, Architectural Competition  
**Competition Entry**  
In collaboration with Amilios Michael, Vasilis Ierides, Andreas Savvides, Christos Hadjichristos, Maria Kouppi, Stefanie Keszi  
*Filekpedeftiki Eteria, Arsakeio Tirana, Greek-Albanian School, Tirana, Albania* [Design: 1998-2000] [Completion: 2007]  
**Award 2010 for “Architecture Beyond Borders”**  
*[by Association of University Graduate Architects - Panhellenic Union of Architects, Greece]*  
Architects: D.Isaias and T.Papaioannou  
Team Architects: Odysseas Kontovourkis, Vassilis Panagiotopoulos, Stelios Papadimitriou, Afroditi Papadoperaki, Silia Pavlou
- 2004 *New passengers terminal in the Port of Limassol*, Limassol, Cyprus, Architectural Design Competition  
**Competition Entry**  
Architects: Andreas Vardas, Odysseas Kontovourkis
- 2003 *Sports Center of Mesa Geitonia Municipality in Limassol*, Cyprus, Architectural Design Competition  
**Awarded 2<sup>nd</sup> Prize**  
Architects: Andreas Vardas, Odysseas Kontovourkis
- 2002 *National Theatre of the Cyprus Theatrical Organization (C.T.O.) in Nicosia*, Cyprus, Architectural Design Competition  
**Competition Entry**  
Architects: Andreas Vardas, Odysseas Kontovourkis  
*Headquarter building of O.G.H.E.F. (Organization of Greek Higher Education Functionaries) in Nicosia*, Cyprus, Architectural Design Competition  
**Awarded Honorable Mention**  
Architects: Andreas Vardas, Odysseas Kontovourkis
- 2001 *Temporary-Permanent House*  
13<sup>th</sup> Takiron International Design Competition 2001, Japan

**Competition Entry**

Architects: Odysseas Kontovourkis

**EXHIBITIONS PARTICIPATION**

- 2011 **Larnaka Municipality Market and Parking Architectural Competition**  
Exhibition of entries, 7.07-20.07.2011  
Project Larnaka Municipality Market and Parking, Larnaca, Cyprus  
Exhibited:  
Location: Municipality Art Gallery, Larnaca, Cyprus
- Limassol Municipality Office Building Architectural Competition**  
Exhibition of entries, 14.04.2011  
Project Limassol Municipality Office Building, Limassol, Cyprus  
Exhibited:  
Location: Cultural Center 'Panos Solomonidis', Limassol, Cyprus
- 2010 **Cyprus News Agency at Nicosia Architectural Competition**  
Exhibition of entries, 26.10-04.11.2010  
Project Cyprus News Agency at Nicosia, Cyprus  
Exhibited:  
Location: Journalists' House, Nicosia, Cyprus
- 2004 **New passengers terminal in the Port of Limassol Architectural Design Competition**  
Exhibition of entries, September 2004  
Project New passengers terminal in the Port of Limassol, Limassol, Cyprus  
Exhibited:  
Location: Evagoras Lanitis Exhibition Hall, Limassol, Cyprus
- 2003 **Sports Center of Mesa Geitonia Municipality Architectural Design Competition**  
Exhibition of awarded entries, April 2003  
Project Sports Center of Mesa Geitonia Municipality in Limassol, Cyprus  
Exhibited:  
Location: Library Building of Mesa Geitonia Municipality, Limassol, Cyprus
- 2002 **National Theatre of the Cyprus Theatrical Organization (C.T.O.) Architectural Design Competition**  
Exhibition of entries, December 2002  
Project National Theatre of the Cyprus Theatrical Organization (C.T.O.) in Nicosia,  
Exhibited: Cyprus  
Location: Cyprus Sports Organization (C.S.O) Building, Nicosia, Cyprus
- 2002 **Headquarter building of O.G.H.E.F. (Organization of Greek Higher Education Functionaries) Architectural Design Competition**  
Exhibition of awarded entries, October 2003  
Project Headquarter building of O.G.H.E.F. (Organization of Greek Higher Education  
Exhibited: Functionaries) in Nicosia, Cyprus  
Location: PASIDI Building, Nicosia, Cyprus

**EXTRA ACADEMIC ACTIVITIES**

- 08-09.09.2014 eCAADe 2014 Workshop: **Parametric design, analysis, and multi-objective optimization/Volker Mueller (Bentley)**  
Northumbria University, Newcastle, UK
- 14-16.12.2012 Rob|Arch 2012 Workshop: BrickDesign/Gramazio & Kohler Architecture and Digital Fabrication (BrickDesign: plug-in for Rhino 5)  
ETH Zurich, Zurich, Switzerland
- 29-30.09.2012 Symposium Conference AAG12 Workshop 5: Shell discretization strategies for robotized fabrication/Thibault Schwartz (HALL plug-in for Grasshopper/Rhino)  
ENSA Paris-Malaquais, Paris, France

Curriculum Vitae [06.2018]

- 10-11.09.2012 eCAADe 2012 Workshop: Agent-based simulation (NetLogo)/ Gabriel Wurzer, Wolfgang E. Lorenz, Nikolay Popov  
Czech Technical University in Prague, Prague, Czech Republic
- eCAADe 2012 Workshop: Robots in Architecture 1+2/Sigrid Brell-Cokcan and Johannes Braumann (founders of Robots in Architecture and developers of KUKA|prc plug-in for Grasshopper/Rhino)  
Czech Technical University in Prague, Prague, Czech Republic
- 28-31.03.2011 Smart Geometry 2011 Workshop: Building the Invisible. Informing digital design with real world data - Use the force/ Daniel Pikker (Kangaroo/physics engine plug-in for Grasshopper/Rhino)  
Royal Academy of Fine Arts, School of Architecture (CITA), Copenhagen, Denmark
- 09-10.02.2011 Generative Design for Robotic Manufacture course/Gregory Epps (RoboFold) and Daniel Pikker (Kangaroo/physics engine plug-in for Grasshopper/Rhino)  
London Metropolitan University, Simply Rhino Training Classroom, Metropolitan Works, London, UK
- 13-14.09.2010 eCAADe 2010 Workshop: Our urban tools in Grasshopper and RhinoCommon/Giulio Piacentino (Weavebird plug-in for Grasshopper/Rhino)  
ETH Zurich, Zurich, Switzerland
- 10-11.02.2005 Generative Components Workshop/Bentley Systems [Parametric Design Software]/Robert Aish (**Bentley**)  
Department of Architecture and Civil Engineering, University of Bath, Bath, UK
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