

ODYSSEAS KONTOVOURKIS, Ph.D.

SECTION A

PERSONAL DETAILS

Email: 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

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RESEARCH AND TEACHING INTERESTS

- Computational design and robotic fabrication
 - Automation and robotics in sustainable construction
[Computer-aided manufacturing (CAM); Robotic Additive Manufacturing and 3D printing; Automated casting; Robotic timber construction]
 - Performance-based multi-objective analysis, design and visualization
[Computer-aided design (CAD); Building Information Modelling (BIM); Parametric-associative design; Architectural multi-objective analysis; Virtual, Mixed and Augmented Reality (VR, MR & AR); Human behavior physical inputs; Pedestrian movement behavior modeling and circulation design]
 - Reconfigurable, kinetic and bending-active systems
[Physics-based computer modeling; Physical computing and robotics]
- Integrated computational design and digital fabrication in educational context

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 Digital 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 Digital Architectural Communication Media

Curriculum Vitae [07.2020]

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) Kontovourkis, O.**, Phocas, M.C., Tryfonos, G.,
Georgiou, C.
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

- 2018 **Conference paper presented in the ISARC 2018 selected to be published in the ISARC 2018 Special Issue in Elsevier’s Automation in Construction**
The paper *‘Integrating parametric design with robotic additive manufacturing for 3D clay printing: An experimental study’* authored by Kontovourkis, O. & Tryfonos, G. has been listed among the selected papers of the conference ISARC 2018 (International Symposium on Automation and Robotics in Construction) to be published in the journal Automation in Construction.
- 2016 **Conference paper presented in the eCAADe 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

Curriculum Vitae [07.2020]

- 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 5th -6th and 7th -8th 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 Thomaides**
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 (4th 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 (4th 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**
- 2019 Member of the Circular Construction Hub, a trans-European network of circular economy experts in the construction sector developed jointly by Cleantech Bulgaria, Cyprus University of Technology and Paragon Malta with the financial support of EIT Climate-KIC
EIT Climate-KIC, Europe
- 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**
- 2019 Scientific Advisor in the Team of Potential Examiners in the subject of Architecture for the Teachers' Written Exams, leading to their Enrolment and Ranking in the List of Appointed Teachers, 2019
Ministry of Education and Culture, Cyprus
- Member of the Examination Committee of the Architectural Technical Drawing and Architectural Drawing subjects of the Cyprus University Entry Exams, 2019
Ministry of Education and Culture, Cyprus
- 2018 Nominated as Mentor at ONEK Makerspace Residency Scheme
Youth Board of Cyprus (ONEK), Cyprus
- 2017 Scientific Advisor in the Team of Potential Examiners in the subject of Architecture for the Teachers' Written Exams, leading to their Enrolment and Ranking in the List of Appointed Teachers, 2017
Ministry of Education and Culture, Cyprus
- Member of the Examination Committee of the Architectural Technical Drawing subject of the Cyprus University Entry Exams, 2017
Ministry of Education and Culture, Cyprus
- Scientific Expert in the ClimateKIC Themes session, 03.07.2017
Cyprus University of Technology, Limassol, Cyprus
- 2016 Mentor in the Center of Entrepreneurship (C4E) of the University of Cyprus [Since 2016]
University of Cyprus, Cyprus
- Evaluator in the Sponsor Scheme for Enhancing Business and Innovation, 2016
Ministry of Energy, Commerce Industry and Tourism, Cyprus

Curriculum Vitae [07.2020]

- Member of the Examination Committee of the Architectural Drawing subject 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 Drawing subject 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

- Since 2019 Member of the Safety Committee, University of Cyprus, 2019
- 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; 2018 Member of the Evaluation Committee in 1st and 6th Annual Student Competition of the Department of Architecture at the University of Cyprus for the Annual Architecture Award in Memory of George Paraskevaides, 2013; 2018, University of Cyprus
- 2009-2012; 2018-2019 Member of L. and T. David Prize Committee, 2009-2012; 2018-2019, Department of Architecture, University of Cyprus
- 2011-2017 Member of Postgraduate Committee, Department of Architecture, University of Cyprus
- Since 2017 Member of Events & Lecture Series Committee, Department of Architecture, University of Cyprus
- Member of Undergraduate Committee, Department of Architecture, University of Cyprus
- Since 2013 Editorial Board Member/ Chief Editor and Coordinator of the J.UCY03 & J.UCY 05 (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 Departmental Premises Committee, Department of Architecture, University of Cyprus
- Member of Health and Safety Committee, Department of Architecture, University of Cyprus

Curriculum Vitae [07.2020]

- 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 3D Printers, CNC Laser Cutter, CNC Router and Foam Cutter Laboratories.
Responsible for the smooth operation of 3D Printer, CNC Laser Cutter, CNC Router 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, CNC Router 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 AND EXHIBITIONS REVIEWER

- 2019 Member of the Jury Committee to evaluate proposals submitted in the 3rd RESTORE Training School of WG3, Bolzano, Italy, 11-14.03.2019
Organized by WG3-Restorative Building and Operation of the European Research Program COST Action CA16114: RESTORE Rethinking Sustainability towards a Regenerative Economy EURAC Research, Bolzano, Italy [Member of Jury Committee]
- 2018 Member of the Selection Committee to evaluate proposals for the digital design exhibition ‘Designing Complexity 2018’, 12.04.2018
Organized by Mongeometrija 2018 – 6th International Conference on Geometry and Graphics, 6-9.07.2018
Faculty of Technical Sciences, Novi Sad, Serbia [Member of Selection Committee]
- 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 Jury Committee]
- 2015 Member of the Jury Committee to evaluate proposals for the Design Competition among Cyprus Elementary Schools: The children, citizens of the future, 10-11.2015
Ministry of Education and Culture, Cyprus [Member of Jury Committee]
- 2014 Member of the Jury Committee to evaluate proposals for the Christmas Design Challenge [Organized by Tellalis], 10.12.2014
Part of the Nicosia Pop Up Festival 2014, Nicosia [Member of Jury Committee]

EDITORSHIPS AND JOURNALS REVIEWING

- 2020 Peer Reviewer for papers submitted for the 38th eCAADe Annual Conference: *Anthropologic. Architecture and Fabrication in the Cognitive Age*. Berlin: Technical University of Berlin, 16-18.09.2020 [Peer Reviewer]
- 2019 Peer Reviewer for the Springer Nature Applied Sciences Journal, Springer Publisher, 2019 [Peer Reviewer]
- Peer Reviewer for papers submitted for the Proceedings of OPTARCH2019 conference published by Procedia Manufacturing of Elsevier, December 2019 [Peer Reviewer]
- Peer Reviewer for the Additive Manufacturing Journal, Elsevier Publisher, 2019 [Peer Reviewer]
- Peer Reviewer for papers submitted in the e-journal ArchiDOCT in thematic area of Meta-, vol. 7, issue 2, February 2020 [Peer Reviewer]

- Guest Editor of the e-journal ArchiDOCT in the thematic area of Forces, vol. 7, issue 1, July 2019 [Guest Editor]
- Peer Reviewer for papers submitted in the e-journal ArchiDOCT in thematic area of Forces, vol. 7, issue 1, July 2019 [Peer Reviewer]
- Session Chair of D2S1R3-Matter-Digital Production and Robotics 1 in the 37th eCAADe Annual Conference and the XXIII SiGraDi Conference: *Architecture in the Age of 4th Industrial Revolution*. Porto: University of Porto, 11-13.09.2019 [Session Chair]
- Peer Reviewer (Member of the Expert Reviewers Group Champion Reviewers) of the Scientific Committee for papers submitted for the 37th eCAADe Annual Conference and the XXIII SiGraDi Conference: *Architecture in the Age of 4th Industrial Revolution*. Porto: University of Porto, 11-13.09.2019 [Expert Peer Reviewer]
- Peer Reviewer for papers submitted for the 24th Annual Conference of the CADRIA Association for Computer-Aided Architectural Design Research in Asia: *Intelligent and Informed*. New Zealand: Victoria University of Wellington, 15-18.04.2019 [Peer Reviewer]
- Peer Reviewer for papers submitted for the SimAUD 2019: Symposium on Simulation for Architecture and Urban Design. Atlanta: Georgia Tech, 07-09.04.2019 [Peer Reviewer]
- 2018 Member of the International Scientific Committee of the 1st International Conference on Optimization-Driven Architectural Design (OPTARCH 2019), Amman-Jordan, November 5th - 7th, 2019 [Member of International Scientific Committee]
- Chief Editor of the Journal of Architecture, J.UCY05, Department of Architecture, University of Cyprus, Nicosia, in Greek and English [Chief Editor]
- Peer Reviewer for papers submitted in the e-journal ArchiDOCT in thematic area of Geometry, vol. 6, issue 2, February 2019 [Peer Reviewer]
- Member of the Scientific Committee of the e-journal ArchiDOCT dedicated on doctoral research <http://archidoct.net/> [Member of Scientific Committee]
- Peer Reviewer for papers submitted for the 36st Conference on Education in Computer Aided Architectural Design in Europe: *Computing for a better tomorrow*. Lodz: Lodz University of Technology, 19-21.09.2018 [Peer Reviewer]
- Peer Reviewer for papers submitted for the 6st eCAADe Regional International Symposium: *Sustainable Computational Workflows*. Nicosia: University of Cyprus, 24-25.05.2018 [Peer Reviewer]
- Symposium Chair and Organizer of the 6st eCAADe Regional International Symposium: *Sustainable Computational Workflows*. Nicosia: University of Cyprus, 24-25.05.2018 [Symposium Chair and Organizer]
- 2017 Peer Reviewer for papers submitted for the 35st Conference on Education in Computer Aided Architectural Design in Europe: *ShoCK! - Sharing Computational Knowledge!* Rome: Sapienza University of Rome, 20-22.09.2017 [Peer 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 [Peer Reviewer]
- 2016 Peer Reviewer for 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 [Peer Reviewer]
- Peer Reviewer for abstracts submitted for the 11th European Conference of Products and Process Modelling: ECCPM. Nicosia: University of Cyprus (UCY), 07-09.09.2016 [Peer Reviewer]
- 2015 - 2017 Chief Editor of the Journal of Architecture, J.UCY04, Department of Architecture, University of Cyprus, Nicosia, in Greek and English [Chief Editor]

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

Curriculum Vitae [07.2020]

- 2013 Peer Reviewer for papers submitted for the 31st Conference on Education in Computer Aided Architectural Design in Europe: Computation and performance. Delft: Delft University of Technology (TU Delft), 18-20.09.2013 [Peer Reviewer]
- Peer Reviewer for the Urban Studies Research Journal, Hindawi Publishing Corporation, 2013 [Peer Reviewer]
- Chief Editor of the Journal of Architecture, J.UCY03, Department of Architecture, University of Cyprus, Nicosia, in Greek and English [Chief Editor]

ORGANIZATION OF CONFERENCES

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

PARTICIPATION/MEMBERSHIP IN PROFESSIONAL SOCIETIES

- Since 2019 International Association of Shell and Spatial Structures (IASS)
- 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 (eCAADe)
- 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

- 2019 - 2020 Title: ***Sustainable Urban Governance through Augmented Reality***
Acronym: **SUGAR**
Type: RESTART 2016-2020 - International Collaboration - Dual Targeting, Funding: External,
Funding Authority: Research Promotion Foundation
Author's Role: Participant - Member of the Research Team of the University of Cyprus
(Research Partner)
03.2019-03.2020
Status: Ongoing
Affiliated Organization: University of Cyprus, Country: Cyprus
Internet access: <https://sugar.cyprusinteractionlab.com/>
Description: Sustainable Urban Governance through Augmented Reality
Budget (€): 80000.00, UCY Budget (€):8400.00
- 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: Member of the Management Committee (MC)
Participant in WG3 – Regenerative Construction and Operation as Vice-Leader of the subgroup
WG3.2 Regenerative Construction
Participant in WG4 – Rethinking Technology as Leader of the subgroup WG4.1f Case studies.
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 Kefalaioushiki 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: Completed
Affiliated Organization: University of Cyprus, Country: Cyprus

Curriculum Vitae [07.2020]

- 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
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- **Doctoral Dissertation**
11.03.2009 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-

Research in Architecture Engineering

31.03.2002

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

- **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

- Books authorship

- 2019 **BA02.** Michael, A., Phocas, M.C., **Kontovourkis, O.** 2019, *Architectural Synergies. Participatory Design and Construction of Timber Pavilion Prototypes*. Department of Architecture, University of Cyprus, Nicosia, in Greek and in English, in print [120 p.]
- BA01.** **Kontovourkis, O.** and Savvides, A., 2019. *Fabritopia*. Department of Architecture, University of Cyprus, Nicosia, in English [ISBN 978-9925-553-15-0] [98 p.]

- Books and journals editorship

- 2019 **BE03.** **Kontovourkis, O.** (ed.), 2019. *Forces*. ArchiDOCT e-journal, Vol. 7, N. 1 [ISSN 2309-0103] [116 p.]
- 2018 **BE02.** **Kontovourkis, O.** (ed.), 2018. *Sustainable Computational Workflows [6th eCAADe Regional International Workshop Proceedings]*, Department of Architecture, University of Cyprus, Nicosia, Cyprus [ISBN 9789491207143] [166 p.]
- 2015 **BE01.** **Kontovourkis, O.**, Phocas, M.C., Pyla, P., Stratis, S. (eds.), 2015. *Journal of Architecture, J.UCY-03*, Department of Architecture, University of Cyprus, Nicosia, in Greek and in English [ISSN 1986-1346 (print) – ISSN 2421-7794 (online)] [413 p.]

- Chapters in books

- 2019 **BC06.** **Kontovourkis, O.**, 2019. Path systems connecting forces, materials and robotic tools. Integrated computational design optimization and robotic fabrication workflows. In: O. Kontovourkis, ed. *ArchiDOCT: Forces, Vol. 7, N. 1*, pp. 15-30, ISSN: 2309-0103 [16 p.]
- BC05.** Phocas, M.C., **Kontovourkis O.**, Georgiou, N.I., 2019. Bio-Pulse Oscillations Driven Design of Kinetic Structures. In: U.T. Bezerra, H.S. Ferreira, N.P. Barbosa, eds. *Frontiers in Biomaterials: Bio-Inspired Materials, Vol. 6*. Bentham e-Books, pp. 1-25 [25 p.]
- 2018 **BC04.** **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, https://doi.org/10.1007/978-3-319-60919-5_10 [14 p.]
- 2014 **BC03.** **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 [ISSN 2080-9638] [5 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. Cagliani, 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]

- 2020 **J17.** **Kontovourkis, O.** and Tryfonos, G., 2020. Multi-objective optimisation of tensile mesh structures for toolpath generation and robotic fabrication, *International Journal of Space Structures*, SAGE [[Under Review](#)]
- J16.** **Kontovourkis, O.** and Konatzii, P., 2020. Environmental and cost assessment of customized modular wall components production based on an adaptive formwork casting mechanism, *Journal of Cleaner Production*, Elsevier [[Under Revision](#)]
- J15.** **Kontovourkis, O.** and Tryfonos, G., 2020. Robotic 3D clay printing of prefabricated non-conventional wall components based on a parametric-integrated design, *Automation in Construction*, Elsevier, Vol. 110, doi.org/10.1016/j.autcon.2019.103005 [19 p.]

- 2019 **J14. Kontovourkis, O.**, Phocas, M.C. and Katsambas, C., 2019. Digital to physical development of a reconfigurable modular formwork for concrete casting and assembling of a shell structure, *Automation in Construction*, Elsevier, Vol. 106, doi: 10.1016/j.autcon.2019.102855 [23 p.]
- J13. Kontovourkis, O.**, Tryfonos, G., Georgiou, C., 2019. Robotic additive manufacturing (RAM) with clay using topology optimization principles for toolpath planning: the example of a building element. *Architectural Science Review*, Taylor & Francis, doi: 10.1080/00038628.2019.1620170 [14 p.]
- 2017 **J12. 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.]
- J11.** 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.]
- J10.** 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 **J09. 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 **J08. 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.]
- J07. 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 [ISSN 1028-365X (Print); ISSN 1996-9015 (Online)] [12 p.]
- 2014 **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, doi: 10.2495/DNE-V9-N1-13-30 [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, doi: <https://doi.org/10.5755/j01.sace.3.4.4723> [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, doi: <https://doi.org/10.1260/1478-0771.11.2.205> [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, doi: 10.1260/1478-0771.10.1.67 [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.]

- **Published/In Print**

- 2020 **C36. Kontovourkis, O.**, Phocas, M.C., Tryfonos, G., Georgiou, C., 2020. Multi-axis 3D printing of material reduced shell structures on a reconfigurable supporting system using topology optimization principles, *Procedia Manufacturing*, Elsevier [8 p.]
- 2019 **C35. Dimitriou, P.**, Phocas, M.C., **Kontovourkis, O.**, Matheou, M., Christoforou, E.G., 2019. Deployment and reconfiguration approach of linkage structures. In M. Gorgolewski and M. Asefi eds. *Proceedings of International Conference on Emerging Technologies in Architectural Design (ICETAD2019)*. Toronto, Canada [8 p.]
- C34. Kontovourkis, O.**, Tryfonos, G., Konatzii, P., 2019. A review on environmental and economic potential of robotic construction in actual scale driven by structural optimization. In C. Lázaro, K.-U. Bletzinger, E. Oñate eds. *Proceedings of the IASS Annual Symposium 2019 – Structural Membranes 2019: Form and Force*. Barcelona, Spain, pp. 828-835 [8 p.]
- C33. Kontovourkis, O.**, Georgiou, C., Stroumpoulis, A., Kounnis, K., Dionyses, C., Bagdati, S., 2019. Implementing Augmented Reality for the Holographic Assembly of a Modular Shading Device. In J.P. Sousa, J.P. Xavier and G. Castro Henriques eds. *Proceedings of the 37th Conference on Education in Computer Aided Architectural Design in Europe and the XXIII SiGraDi Conference: Architecture in the Age of 4th Industrial Revolution (Volume 3)*. Porto: University of Porto, 149-158 [10 p.]
- C32. Kontovourkis, O.** and Stroumpoulis A., 2019. Virtual Reality for prototyping compression-only structures. *Proceedings of the 7th eCAADe Regional International Symposium: Virtually Real*. Aalborg: Aalborg University [10 p.] [[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 (Volume 1)*. Lodz: Lodz University of Technology, pp. 341-350 [10 p.]
- 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, pp. 909-916 [10 p.]
[Selected to be published in the in the special issue ISARC 2018 (International Symposium on Automation and Robotics in Construction) of the journal *Automation in Construction*]
- 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, pp. 111-120 [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, pp. 131-140 [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. Herneojá, 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 11th 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

2019 **A05. Kontovourkis, O.**, Phocas, M.C., Tryfonos, G., Georgiou, C., 2019. Multi-axis 3D printing of material reduced shell structures on reconfigurable supporting system using topology optimization principles. *Proceedings of the 1st International Conference on Optimization Driven Architectural Design (OPTARCH 2019)*. Amman [1 p.]

A04. Vula Rizvanolli, B., Villoria, P., del Río Merino, M., **Kontovourkis, O.**, Galán, A., Peretti, G., 2019. Analysis of the current building standards and certification tools used in Europe. *Proceedings of the 2nd Building and Management International Conference (BIMIC 2019)*. Madrid: Universidad Politécnica de Madrid [2 p.]

A03. Villoria Sáez, P., del Río Merino, M., Vula Rizvanolli, B., **Kontovourkis, O.**, Tsalkatidis, T., Peretti, G., Galán, A., Friedrich, D., 2019. Current status of sustainable construction in Europe. *Abstracts book of the IV International Conference on Technological Innovation in Building Cite 2019 (CITE 2019)*. Madrid: Universidad Politécnica de Madrid [2 p.]

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 10th 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. Vitkuvienė, eds. *Proceeding of the Ecological Architecture 2013. 2nd International Scientific Conference dedicated to the Sustainability in Architecture and Planning*. Kaunas: Kaunas University of Technology, p. 22 [1 p.]

- **Published research reports**

2019 Villoria Sáez, P., **Kontovourkis, O.** Vula Rizvanolli, B., Del Río Merino, M., (eds.), 2019. Construction. In: G. Peretti and C.K. Druhmans eds. *Regenerative Construction and Operation. Bridging the gap between design and construction, following a Life Cycle Approach consisting of practical approaches for procurement, construction, operation and future life*. CA16114 RESTORE: REthinking Sustainability TOWards a Regenerative Economy, Working Group Three Report: Regenerative Construction and Operation, pp. 59-88 [ISBN 978-3-9504607-4-2 (Online) - ISBN 978-3-9504607-5-9 (Print)] [30 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 [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**
4th 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. 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]
- 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]
- **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 lectures**
- 2018 ***FABRITOPA - Results of computational design and robotic fabrication workshop***
Public Lecture, 30.07.2018
Youth Makerspace (Youth Board of Cyprus - ONEK), Larnaca, Cyprus
- 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, 25th 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 13th 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

- 2019 ***CP44. Multi-axis 3D printing of material reduced shell structures on reconfigurable supporting system using topology optimization principles [Presentation by associate]***
1st International Conference on Optimization Driven Architectural Design (OPTARCH 2019).
Amman, Jordan, 5-7.11.2019
- CP43. Deployment and reconfiguration approach of linkage structures [Presentation by associate]***
International Conference on Emerging Technologies in Architectural Design (ICETAD2019).
Toronto, Canada, 17-18.10.2019
- CP42. A review on environmental and economic potential of robotic construction in actual scale driven by structural optimization [Presentation]***

IASS Annual Symposium 2019 – Structural Membranes 2019: Form and Force. Barcelona, Spain, 7-10.10.2019

CP41. Implementing Augmented Reality for the Holographic Assembly of a Modular Shading Device [Presentation]

37th Conference on Education in Computer Aided Architectural Design in Europe and the XXIII SiGraDi Conference: Architecture in the Age of 4th Industrial Revolution. University of Porto, Porto, Portugal, 11-13.09.2019

CP40. Analysis of the current building standards and certification tools used in Europe [Poster Presentation by associates]

2nd Building and Management International Conference (BIMIC 2019). Universidad Politécnica de Madrid, Madrid, Spain, 8-10.05.2019

CP39. Virtual Reality for prototyping compression-only structures [Presentation]

7th eCAADe Regional International Symposium: Virtually Real. Aalborg University, Aalborg, Denmark, 2-3.05.2019

CP38. Current status of sustainable construction in Europe [Poster Presentation by associates]

IV International Conference on Technological Innovation in Building Cite 2019 (CITE 2019). Universidad Politécnica de Madrid, Madrid, Spain, 6-8.03.2019

2018

CP37. ICARUS Project - An open source platform for computer programming in architectural teaching and research [Presentation]

36th Conference on Education in Computer Aided Architectural Design in Europe: Computing for a better tomorrow. Lodz University of Technology, Lodz, Poland, 19-21.09.2018

CP36. Integrating parametric design with robotic additive manufacturing for 3D clay printing: An experimental study [Presentation]

35th International Symposium on Automation and Robotics in Construction: The Future of Building Things. Berlin, Germany, 20-25.07.2018

CP35. An integrated robotically driven workflow for the development of elastic tensile structures in various scales [Presentation by associate]

6th eCAADe Regional International Symposium: Sustainable Computational Workflows. University of Cyprus, Nicosia, Cyprus, 24-25.05.2018

CP34. Design-static analysis and environmental assessment investigation based on a kinetic formwork driven by digital fabrication principles [Presentation by associate]

6th eCAADe Regional International Symposium: Sustainable Computational Workflows. University of Cyprus, Nicosia, Cyprus, 24-25.05.2018

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]

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

2016

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]**
10th 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]**
3rd 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. Konatzij]

ENHSA International Conference *What's the matter: Materiality and Materialism at the Age of Computation*, COAC; ETSAB; ETSAV, 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]

1st 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

11th 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]

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- 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/MEETING PARTICIPATIONS

- 2019 **OCP15.** European Research Program COST, Action CA16114: Rethinking Sustainability towards a Regenerative Economy
Working Group 4 Restricted Meeting, Venice, Italy, 12.11.2019
- OCP14.** European Research Program COST, Action CA16114: Rethinking Sustainability towards a Regenerative Economy
Working Group 4 Workshop Meeting, Riga, Latvia, 27-28.06.2019
- OCP13.** European Research Program COST, Action CA16114: Rethinking Sustainability towards a Regenerative Economy
Working Group 4 Workshop Meeting, Brussels, Belgium, 15-16.04.2019
- OCP12.** European Research Program COST, Action CA16114: Rethinking Sustainability towards a Regenerative Economy
Working Groups and Management Committee Meeting, Bolzano, Italy, 14-15.03.2019
- 2018 **OCP11.** European Research Program COST, Action CA16114: Rethinking Sustainability towards a Regenerative Economy
Working Group 3 Restricted Meeting, Stuttgart, Germany, 14.09.2018
- 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
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)

- 2019-20 ***Architectural Design VII (ARH-400)***
Department of Architecture, University of Cyprus, Fall 2019 [Assistant Professor]
Undergraduate advanced architectural design course where students are encouraged to examine the programme and analyse the impact it may have on the various aspects of the resulting design (See program of study - Bachelor of Science (B.Sc.) in Architecture). This year's studio introduces the theme of sustainable and intelligent methods of fabrication in the field of architectural design and construction. In particular, students are asked to design a Sustainable and Smart Fabrication Workshop/Factory, a laboratory/factory that investigates and produces building systems and overall structures, either off-site or on-site using specific materials (wood, metal, polymer, concrete, clay, etc.) and robotic fabrication processes (casting, cutting, welding, etc.) that can bring a positive sustainable impact in the construction industry. Software and plug-ins include Rhino/Grasshopper and any other software for 3D modeling and rendering. 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 (16 students for semester Fall 2019-20)
- Since 2018 ***Special Topics on Recording and Documenting Buildings and Sites (ARH-550)***
Department of Architecture, University of Cyprus, Spring 2019 [Assistant Professor]
Postgraduate course that provides basic and advanced knowledge on recording and documenting buildings and sites using conventional and contemporary digital techniques (See program of study - Inter-departmental M.Sc. Conservation and Restoration of Historic Buildings and Sites). Software and plug-ins include software for data visualization (Agisoft) and 3D modeling (Rhino and AutoCAD).
Postgraduate Inter-departmental course co-taught with M. Philokyprou (Spring 2018, 2019) and A. Michael (Spring 2018, 2019), Assistant Professors, Department of Architecture, University of Cyprus
The lecturer is responsible for developing and organizing the syllabus and the overall course structure, for teaching 3D scanning techniques, for instance Structured light and Photogrammetry approaches, and 3D modeling methods using specific software/plugin, as well as for supervising projects.
Students: Postgraduate students of the Department of Architecture, the Department of Civil Engineering and the Department of History and Archeology (6 students for semester Spring 2018-19)
- Since 2012-13 ***Advanced Computer-Aided Design Topics (ARH-522)***
Department of Architecture, University of Cyprus, Fall 2012; 2013; 2014 [Lecturer], Fall 2015; 2016; 2017; 2018 [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 2010-11 ***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

Curriculum Vitae [07.2020]

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 2009-10 ***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; 2018; 2019 [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 (3D printing, laser cutting and hotwire foam cutting). Software include: Rhino 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 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)

Since 2010-11 ***Introduction to Architecture (ARH-110)***
Department of Architecture, University of Cyprus, Fall 2010; 2011; 2012; 2013; 2014 [Lecturer] Fall 2015; 2016; 2017; 2018; 2019 [Assistant Professor]

Undergraduate course co-taught with the other faculty members

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

Curriculum Vitae [07.2020]

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 [1st Supervisor]**

Since 01.2014 Panagiota Konatzii. *Sustainable design and automated manufacturing of custom components through a flexible kinetic formwork*, PhD Thesis, UCY [Completed - Spring 2020]

- 01.2013-12.2018 George Tryfonos. *An integrated digital design to robotic fabrication process of tensile mesh structures*, PhD Thesis, UCY [Completed – Fall 2018]
- **Master Thesis [Program: Energy Technologies and Sustainable Design] [1st 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 [1st Supervisor]**
- 2019-20 Theodora Tsatsou. *Development of Mathiatis mine as public park*, Diploma Thesis, UCY [Completed – May 2020]
- Georgia Hadjigeorgiou. *Autistic children and architecture*, Diploma Thesis, UCY [Completed – May 2020]
- Styliana Bagdati. *Exploring the Use of Non-Conventional Materials, Systems & Processes in Design, Construction & Building*, Diploma Thesis, UCY [In progress – Since September 2019]
- 2018-19 Andreas-Athanasios Stroumpoulis. *Hybrid game prototype of dynamical changes through augmented reality*, Diploma Thesis, UCY [Completed – May 2019]
[Awarded Honorable Mention - L. and T. David Prize]
- Christos Dionysis. *Artificial body for protection and living*, Diploma Thesis, UCY [Completed – May 2019]
- Christos Georgiou. *Topology Optimization in 3D printed construction of shells*, Diploma Thesis, UCY [Completed – May 2019]
- 2017-18 *Sabbatical leave [Spring 2018]*
- 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]
[Awarded Honorable Mention in the international design competition *Rethinking Architecture Competition – Sahara Eco House*]
- 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 Aliko salt lake*, Diploma Thesis, UCY [Completed – Fall 2013]

Curriculum Vitae [07.2020]

- 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]**
- 2019 Niki Georgiou, PhD Thesis, UCY [1st Supervisor: M.C. Phocas] [In progress – January 2018]
- 2018 Kristis Alexandrou, *Hybrid cable bending-active systems*, PhD Thesis, UCY [1st Supervisor: M.C. Phocas] [Completed – April 2018]
Constantinos Vassiliades, *Building integration of active solar energy systems in all design scales*. PhD Thesis, UCY [1st Supervisor: A. Savvides] [Completed – April 2018]
- 2014 Maria Matheou. *Kinetic Hybrid Structures*, PhD Thesis, UCY [1st 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) [1st Supervisor: A. Kotsiopoulos] [Completed – March 2013]
- 2012 Tonia Sofocleous-Lemonari. *Adaptable Dual Control Systems*, PhD Thesis, UCY [1st 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.) [1st Supervisor: M.C. Phocas], UCY [Completed – May 2017]
Christina Zakou, *Design and analysis of an adaptive bending-active gridshell*, Master Thesis (M.Sc.) [1st Supervisor: M.C. Phocas], UCY [Completed – December 2016]
- 2014-15 Katerina Galactiou, *Adaptive envelope system*, Master Thesis (M.Sc.) [1st Supervisor: M.C. Phocas], UCY [Completed – July 2015]
- **Diploma Thesis [2nd or 3rd Supervisor]**
- 2018-19 Panayiota Dimitriou. *Deployable lightweight structure for a temporary exhibition pavilion*, Diploma Thesis [1st Supervisor: M.C. Phocas], UCY [Completed - May 2019]
Antriani P. Yiangou. *A built-up centrifugation and urban redesign of Makareio sport center [Be-Hive]*, Diploma Thesis [1st Supervisor: M.C. Phocas], UCY [Completed - May 2019]
- 2017-18 Kyriakos Fotiadis, Maria Karyou, *Study of construction upgrade of 3D printing machinery for clay*, Diploma Thesis [1st Supervisors: Andreas Kyprianou], Department of Mechanical and Manufacturing Engineering, UCY [Completed – June 2018]
- 2016-17 Charalambos Proestos, *Dual soft structural envelope system*, Diploma Thesis [1st Supervisor: M.C. Phocas], UCY [Completed - May 2017]

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- Fotis Tilemahou, *Novus Mundus: A life support facility for Mars colonization*, Diploma Thesis [1st Supervisor: M.C. Phocas], UCY [Completed - May 2017]
- Mpyrros Andreas, *2 the rescue. Facing flood: Design for an emergency shelter*, Diploma Thesis [1st Supervisor: A.Michael], UCY [Completed - May 2017]
- Elena Koufopavlou, *The path experience of Athienou*, Diploma Thesis [1st Supervisor: P. Pyla], UCY [Completed - May 2017]
- Andrea Georgiou, Kyriakos Flourentzou, Constantinos Neophytou, *3D printing study for construction industry in small scale*, Diploma Thesis [1st Supervisors: Andreas Kyprianou], Department of Mechanical and Manufacturing Engineering, UCY [Completed – June 2017]
- 2015-16 Nikolaou Kyriakos, *An attempt to upgrade existing transportation infrastructure in Cyprus*, Diploma Thesis [1st Supervisor: A. Savvides], UCY [Completed – May 2016]
- Antri Lysandrou, *Active Air – Regeneration Façade Prototype*, Diploma Thesis [1st 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 [1st Supervisor: A.Michael], UCY [Completed –Spring 2015]
- Aggeliki Koutsodimitropoulou. Diploma Thesis [1st Supervisor: C. Hadjichristos], UCY [Completed – Fall 2014]
- 2013-14 Niki Georgiou. High-rise airflow building prototype, Diploma Thesis [1st Supervisor: M.C. Phocas], UCY [Completed – May 2014]
- [Awarded Honorable Mention - L. and T. David Prize]
- Rafacla Pavlou. *Kinetic prototype unit for extreme environments*, Diploma Thesis [1st Supervisor: M.C. Phocas], UCY [Completed – May 2014]
- Niki Pirikki. *Bending-active tensile building envelope*, Diploma Thesis [1st Supervisor: M.C. Phocas], UCY [Completed – May 2014]
- 2012-13 Kristis Alexandrou. *Adaptive Structural Prototype*, Diploma Thesis [1st Supervisor: M.C. Phocas], UCY [Completed – May 2013]
- [Awarded Honorable Mention – International Students Competition Transformable 2013]
- George Kyriazis. *Polychronic Waterscapes*, Diploma Thesis [1st Supervisor: N. Charalambous], UCY [Completed – May 2013]
- Kleopatra Papapetrou. Diploma Thesis [1st Supervisor: C. Hadjichristos], UCY [Completed – May 2013]
- 2011-12 Nicky Nicolaou. Diploma Thesis [1st Supervisor: M.C. Phocas], UCY [Completed – May 2012]
- Chrystalla Argyrou. Diploma Thesis [1st Supervisor: M. Philokyprou], UCY [Completed – May 2012]
- Chrysanthi Konstantinou. Diploma Thesis [1st Supervisor: S. Stratis], UCY [Completed – May 2012]
- 2010-11 Anastasios Ioannou. *Swarm INform. Inter-responsive architectural adaptive system*, Diploma Thesis [1st Supervisor: M.C. Phocas], UCY [Completed – May 2011]
- Maria Gabriel. *Kinetic energy architectural systems*, Diploma Thesis [1st 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 [1st Supervisor: M.C. Phocas], UCY [Completed – May 2010]
- [Awarded 1st Prize - L. and T. David Prize]

ORGANIZATION OF WORKSHOPS

- 2018 **FABRITOPIA - 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], Youth Board of Cyprus – Youth Makerspace [sponsor]
- Workshop Coordinator and Principle Instructor: Odysseas Kontovourkis, Instructors: Andreas Savvides, George Tryfonos

- 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 Kornesios]
Students Summer Workshop, Department of Architecture, UCY
Workshop Coordinator: Amilios Michael, Workshop Co-organizers: Odysseas Kontovourkis & Marios C. Phocas
[Awarded First Prize in category "Structural technology" in CY-ARCH Student Projects Awards 2017 by CY-ARCH, the first online magazine on Cypriot Architecture]
- 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

- 2019 Member of the Reviewers Panel to evaluate Workshop Outcome of the ARCH-570DL Digital Fabrication course within the framework of the postgraduate program M.Sc. Computational Design and Fabrication, Nicosia, Cyprus, 13.12.2019
Architecture Research Center, University of Nicosia, Nicosia, Cyprus [Member of the Reviewers Panel]
Member of the Instructors and Reviewers for the 4th Youth Leadership Summer School organized by Youth Board of Cyprus (ONEK), Platres, 04-07.07.2019
Platres, Cyprus [Instructor and Reviewer]
- 2013 External Reviewer for Diploma projects, 05.2013
Department of Architecture, Frederick University, Nicosia, Cyprus [External Reviewer]
- Since 2010 Reviewer for Mid-term and Final presentation of design studio, construction and other courses
Department of Architecture, University of Cyprus, Cyprus [Reviewer]
- 2010 Member of the Jury Committee to evaluate outcomes of the Repetition Vs Replication: Parametric Design + Digital Fabrication Workshop, 03.12.2010
Architecture Research Center, University of Nicosia, Nicosia, Cyprus [Member of the Jury Committee]
- 2008 - 2010 Reviewer for Mid-term and Final presentations of studio and other courses
Department of Architecture, University of Nicosia, Nicosia, Cyprus [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 2nd 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*
13th Takiron International Design Competition 2001, Japan

Competition Entry

Architects: Odysseas Kontovourkis

PARTICIPATION IN EXHIBITIONS

- 2018 **Design Computing 2018**
Exhibition of design computing examples (over 50) among 29 schools of architecture and 13 architectural firms, 10-17.10.2018
Project Video of the design computing work undertaken in ARH-522 course of the
Exhibited: Department of Architecture, UCY [Instructor: O. Kontovourkis]
Location: Faculty of Architecture and the Faculty of Civil Engineering,
Czech Technical University, Prague, Czech Republic
- 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

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- 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
- 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
- 17-20.01.2005 Generative Components Workshop/Bentley Systems [Parametric Design Software]/Robert Aish (Bentley)
Emergent Technologies (EmTech), Master Programme, Architecture Association School of Architecture (AA), London, UK
- 10.01.2005 Generative Components Seminar/Bentley Systems [Parametric Design Software]
Buro Happold London, London, UK