Curriculum vitae

Lefteris Moussiades
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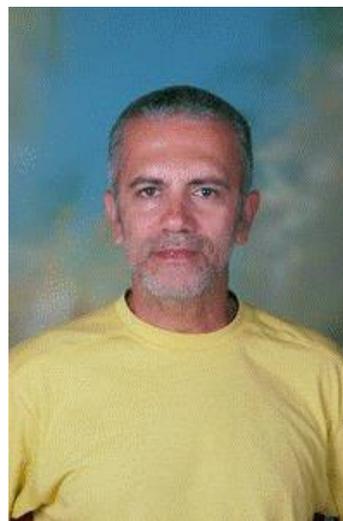
Education

E1. *2017, **Oracle Certified** Associate, Java SE 8 **Programmer**, **Oracle University***

E2. 2009, **Ph.D.**, School of **Informatics**, **Aristotle** University of Thessaloniki, Title: "**Identification of communities** in Web Sites.”

E3. 1999, Postgraduate **Diploma in Education**, PATES / SELETE

E4. 1988, **MSc** in **Information** Technology, University of **Glasgow**

E5. 1986, **BSc** in **Business Administration**, School of Law and Economics, **Aristotle** University of Thessaloniki

Working Experience

W1. **Singular** of Northern Greece S.A., **R&D Department**, **Systems Analysis, Design and Development**, **Project management**, ISO Development, Head of the Balkan Products Division, *01/07/1996-30/09/1999 (3.2 years).*

W2. **Singular** S.A., **R&D Department**, **Systems Analysis, Design and Development**, Project management, ISO Development, *02/01/1991-30/6/1996 (5.5 years).*

W3. **AGROTIKI-TECHNIKI** S.A., **Systems Analysis, Design and Development**, User Training, *10/1/1989-15/9/1990 (1.7 years).*

W4. Columnist in magazine "COMPUTER for everyone", *1987 (<1 year).*

Teaching Experience

T1. Associate Professor, Computer Science Department, IHU, Specialty: **Software Systems – Clustering Algorithms**. Teaching subjects: Introduction to **Programming with C++**, Introduction to Java,, **Object Oriented** Programming, **Web Design** and Development, **GUI Programming**, **Design Patterns**, *07/05/2019-today*

T2. **Associate Professor**, Computer and Informatics Engineering Department, Eastern Macedonia & Thrace Institute of Technology. Specialty: **Software Systems – Clustering Algorithms**. Teaching subjects: Introduction to **Programming**, Programming Techniques, **Object Oriented** Programming, **Internet Programming**, **Web Design** and Development, **GUI Programming**, *31/03/2017-07/05/2019*

T3. **Assistant Professor**, Computer and Informatics Engineering Department, Eastern Macedonia & Thrace Institute of Technology. Specialty: **Software Systems – Clustering Algorithms**. Teaching subjects: Introduction to **Programming**, Programming Techniques, **Object Oriented** Programming, **Internet Programming**, **Web Design** and Development, **GUI Programming**, Content Management Systems, Data Structures and Algorithms, *15/12/2009-30/03/2017 (7 years),*

T4. Lecturer, Department of Industrial Informatics, Technological Education Institution of Kavala. Specialty: **Computer Systems and Networks**. Teaching subjects: Introduction to **Programming**, Programming Techniques, **Object Oriented Programming**, **Internet Programming,** *20/8/2002-14/12/2009 (7.3 years).*

T5. **Teaching** coordinator in the **MSc** program "Advanced Technologies in Informatics and Computers" of the Eastern Macedonia & Thrace Institute of Technology, Teaching Subjects: **Internet Programming**, **Applications Development,** *30/8/2015-30/07/2017.*

T6. Teaching in the postgraduate **research program** "Advanced Computer Technologies and Informatics" of the Computer Science Department, DIPAE. Subjects: **Advanced Programming and Rich Internet Applications**, **Development of Mobile Applications and Games**, 01.08.2018-today.

T7. Teaching in the MSc program "**Immersive Technologies - Innovation in Education, Training and Game Design**" (**taught in English**) of the Department of Informatics of DIPAE. Subject: **Cross-Platform Game Development**, 01.10.2021-today.

T8. **Asynchronous teaching** in the Lifelong Learning program for Knowledge Update of University Graduates "Development of web applications for mobile devices", Teaching Subjects: **Java Programming** and **Android Development, Internet applications for mobile platforms,** 07/09/2015-3012/2015 (0.3 years)**.**

T9. **Supervision** of **Theses** in the **MSc** in "Information Systems" program of the **Hellenic Open University,** 2010-2014.

T10. **Supervision** of **Theses** in the Interdepartmental **MSc** " Teaching, Pedagogy & Technologies of Information Technology and Communications ", TEI EMT, 2017-σήμερα

T11. Coordination of **web-based on-line** Seminars, Center for Technological Research, Eastern Macedonia & Thrace Institute of Technology, Teaching Subject: CMS **Joomla**

T12. Teacher of Informatics in Higher Education. Teaching subjects: Introduction to **Programming**, **Computer Networks,** *29/10/1999-17/7/2002 (2.7 years).*

T13. Rapporteur in Computerized Accounting courses in the Educational Accounting Company, 1995 (≈1 year).

Administrative Experience

A1. Head of the Computer and Informatics Engineering Department, EMT TEI, *31.1.2013 – 30.11.2013 and 14.2.2013 – 31.8.2015 (3,4 years).*

A2. Deputy Head of the Computer and Informatics Engineering Department, EMT TEI, *18.11.2011 – 31.8.2012 and 1.9.2016 – 31.8.2017 (1,8 years)*

A3. Head of the Software Division of the Computer and Informatics Engineering Department, EMT TEI, *18.01.2011-σήμερα (5.7 years).*

A4. Head of the IT Applications Division at the Center of Technological Research in EMT TEI, *23.10.2011-today (5 years).*

A5. Erasmus + Coordinator for the Informatics Engineering Department, EMT TEI, *31.01.2013-31.10.2015 (2.8 years)* and from *10.10.2019-today (Department of Computer Science, IHU).*

A6. Member of the Organizing Committee of the Industrial Informatics Festival, *2013-2016 (3 years).*

A7. Vice President of the Scientific Committee of the Industrial Informatics Festival, *2013-2017 (4 years).*

A8. Member of the academic committee of the MSc program "Advanced Technologies in Informatics and Computers" of Eastern Macedonia & Thrace Institute of Technology, *10.03.2015-30.07.2018 (>3 years).*

A9. Member of the academic committee of the MPhil program "Advanced Technologies in Informatics and Computers" of IHU, *01.08.2018-today*

A10.   Ex Member of the EMT TEI Senate

A11. Scientific Director (≈ 10 years) and Supervisor (≈12 years) of the Traineeship Committee, Computer and Informatics Engineering Department, EMT TEI

A12. Erasmus + Coordinator for the Computer Science Department, IHU, 20.01.2019-today

A13. Member of the coordinating committee of the MSc program "MSc in Immersive Technologies - Innovation in Education, Training and Game Design" (≈

1 year)

Research Interests

- Graph Clustering
- Community Mining
- Plagiarism Detection
- Lattice Applications
- Educational Software
- Εκπαίδευση από απόσταση (e-learning)
- Programming languages
- Operating Systems
- Natural Language Interfaces

Books

[B1]   Lefteris Moussiades, Chairi Kourt, "Introduction to Java, From Procedural to Object-Oriented Model", Kallipos, Open Academic Publications, 2022

Book Chapters

[Ch1]   S. Papadimitriou and L. Moussiades, "Exploring the potential for scientific computing on the Java platform of Scala and Groovy with the ScalaLab and GroovyLab environments," in *Scientific Computing: Studies and Applications*, 2017, pp. 1–31.

[Ch2]   S. Papadimitriou and L. Moussiades, "A comparative theoretical and benchmarking evaluation of modern operating system kernels," in *IAENG Transactions on Engineering Sciences*, 0 vols., WORLD SCIENTIFIC, 2017, pp. 140–153.

[Ch3]   V. Kaburlasos, L. Moussiades, and A. Vakali, "GRANULAR GRAPH CLUSTERING IN THE WEB," in *Information Sciences 2007*, 2007, pp. 1639–1645.

Conferences

[C1]   O. Topouroglou, T. Chaita, C. Kiourt, and L. Moussiades, "Deep Learning Platforms in Food Recognition," presented at the 24th Pan-Hellenic Conference on Informatics (PCI 2020), Athens, Greece, Nov. 2020.

[C2]   G. Sidiropoulos, C. Kiourt, and L. Moussiades, "Metis: Multi-Agent Based Crisis Simulation System," presented at the SETN 2020 Workshop, Athens, Greece, Sep. 2020, [Online]. Available: https://arxiv.org/abs/2009.03934.

[C3]   E. Adamopoulou and L. Moussiades, "An Overview of Chatbot Technology," May 2020, pp. 373–383, doi: 10.1007/978-3-030-49186-4_31.

[C4]   F. Filippidou and L. Moussiades, "A Benchmarking of IBM, Google and Wit Automatic Speech Recognition Systems," in *Artificial Intelligence Applications and Innovations*, Cham, 2020, pp. 73–82, doi: 10.1007/978-3-030-49161-1_7.

[C5]   L. Moussiades, C. Kiourt, and S. Papadimitriou, "Towards a robot assistant in vocabulary learning," in *International Conference on Robotics, Mechatronics and SocialImplementation*, Varna, Bulgaria, Sep. 2018, pp. 32–45, Accessed: Oct. 30, 2020. [Online]. Available: http://ir.bas.bg/ccs/2018/6_moussiades.pdf.

[C6]   I. Kazanidis and E. Moussiades, "Developing Effective Educational Videos for Blended Learning," presented at the the 1st International Association for Blended Learning Conference, Kavala, Greece, Dec. 2017.

[C7]   S. Papadimitriou and L. Moussiades, "Combining Scala with C++ for efficient scientific computation in the context of ScalaLab," in *Lecture Notes in Engineeiring and Computing Science: Proceedings of the World Congress on Engineering*, London, U.K., Jun. 2016, vol. 1, pp. 409–412.

[C8]   S. Papadimitriou and L. Moussiades, "A comparative evaluation of core kernel features of the recent Linux, FreeBSD, Solaris and Windows operating systems," in *Lecture Notes in Engineeiring and Computing Science: Proceedings of the World Congress on Engineering*, London, U.K., Jun. 2016, pp. 387–392, Accessed: Oct. 30, 2020. [Online]. Available: /paper/A-comparative-evaluation-of-core-kernel-features-of-Papadimitriou-Moussiades/4c75303ed66360bd269e71bc6267252402a4a98c.

[C9]   L. Moussiades, A. Iliopolou, G. Zoumpouli, and A. Liapi, "Learning Colours and Shapes by Using Mobile Devices," in *Blended Learning for the 21st Century Learner*, Kavala, Greece, Apr. 2016, pp. 137–141.

[C10] V. G. Kaburlasos, V. Tsoukalas, and L. Moussiades, "FCknn: A granular knn classifier based on formal concepts," in *2014 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE)*, Jul. 2014, pp. 61–68, doi: 10.1109/FUZZ-IEEE.2014.6891726.

[C11] L. Moussiades and A. Vakali, "Mining the Community Structure of a Web Site," in *2009 Fourth Balkan Conference in Informatics*, Sep. 2009, pp. 239–244, doi: 10.1109/BCI.2009.12.

[C12] L. Moussiades and A. Vakali, "Benchmark graphs for the evaluation of clustering algorithms," in *2009 Third International Conference on Research Challenges in Information Science*, Apr. 2009, pp. 197–206, doi: 10.1109/RCIS.2009.5089283.

[C13] L. Moussiades, A. Iliopoulou, and A. Vakali, "An XML-based Framework for the development of Adaptive Educational Software," in *14th Information Resources Management Association International Conference*, Jan. 2004, pp. 197–212.

[C14] V. Kaburlasos, V. Tsoukalas, and L. Moussiades, "Adaptive Technological Education Delivery and Student Examination Based on Machine-Learning Tools," presented at the 13th International Conference on Artificial Neural Networks & 10th International Conference Neural Information Processing, Istanbul, Turkey, Jun. 2003.

[C15] I. Dagkoulis and L. Moussiades, "A Comparative Evaluation of Chatbot Development Platforms", Pan-Hellenic Conference on Informatics, 2022, status:submitted

Journals

[J1] L. Moussiades, "A Word Search Puzzle Construction Algorithm," *International Journal Of Scientific Engineering and Science*, vol. 6, no. 1, pp. 121–126, 2022.

[J2] L. Moussiades, J. Tsimperides, and S. Karanakis, "Dictionary Structure Identification.," *Journal of Engineering Science & Technology Review*, vol. 14, no. 6, pp. 28–34, 2021.

[J3] L. Moussiades and G. Zografos, "LIA: A Mathbot Assistant for First-grade Students," *European Journal of Engineering and Technology Research*, vol. 6, no. 5, pp. 89–93, 2021, doi: 10.24018/ejers.2021.6.5.2519.

[J4] G. Sidiropoulos, C. Kiourt, and L. Moussiades, "Crowd simulation for crisis management: The outcomes of the last decade," *Machine Learning with Applications*, vol. 2, p. 100009, Dec. 2020, doi: 10.1016/j.mlwa.2020.100009.

[J5] E. Adamopoulou and L. Moussiades, "Chatbots: History, technology, and applications," *Machine Learning with Applications*, vol. 2, p. 100006, Dec. 2020, doi: 10.1016/j.mlwa.2020.100006.

[J6] L. Moussiades, C. Kiourt, and S. Papadimitriou, "Towards a robot assistant in vocabulary learning," *Bulgarian Academy of Sciences*, vol. 1, pp. 32–45, Sep. 2018.

[J7] S. Papadimitriou and L. Moussiades, "The design of JVM and native libraries in ScalaLab for efficient scientific computation," *International Journal of Modeling,*

Simulation, and Scientific Computing, vol. 09, May 2018, doi: 10.1142/S179396231850037X.

[J8] S. Papadimitriou and L. Moussiades, "Mac OS versus FreeBSD: A Comparative Evaluation," *Computer*, vol. 51, no. 2, pp. 44–53, Feb. 2018, doi: 10.1109/MC.2018.1451648.

[J9] L. Moussiades, I. Kazanidis, and A. Iliopoulou, "A framework for the development of educational video: An empirical approach," *Innovations in Education and Teaching International*, pp. 1–12, Nov. 2017, doi: 10.1080/14703297.2017.1399809.

[J10] L. Moussiades, "Discovering Clusters of Plagiarism in Students' Source Codes," *Journal of Engineering Science and Technology Review*, vol. 9, pp. 8–12, Feb. 2016, doi: 10.25103/jestr.091.02.

[J11] V. Kaburlasos and L. Moussiades, "Induction of formal concepts by lattice computing techniques for tunable classification," *Journal of Engineering Science and Technology Review*, vol. 7, pp. 1–8, Mar. 2014, doi: 10.25103/ijbesar.071.01.

[J12] L. Moussiades and A. Vakali, "Clustering dense graphs: A web site graph paradigm," *Information Processing, and Management*, vol. 46, pp. 247–267, May 2010, doi: 10.1016/j.ipm.2009.11.003.

[J13] V. Kaburlasos, L. Moussiades, and A. Vakali, "Fuzzy lattice reasoning (FLR) type neural computation for weighted graph partitioning," *Neurocomputing*, vol. 72, pp. 2121–2133, Jun. 2009, doi: 10.1016/j.neucom.2008.10.021.

[J14] L. Moussiades and A. Iliopolou, "Guidelines for evaluating e-learning environments," *Interact. Techn. Smart Edu.*, vol. 3, pp. 173–184, Aug. 2006, doi: 10.1108/17415650680000062.

[J15] L. Moussiades and A. Vakali, "PDetect: A Clustering Approach for Detecting Plagiarism in Source Code Datasets," *The Computer Journal*, vol. 48, Jun. 2005, doi: 10.1093/comjnl/bxh119.

Publications in the Greek Language

G1. Ιωάννης Καζανίδης, Ελευθέριος Μωυσιάδης, Η χρήση του συνεργατικού **προγραμματισμού στην διδασκαλία του αντικειμενοστραφή προγραμματισμού**, *3ο Διεθνές Συνέδριο για την Προώθηση της Εκπαιδευτικής Καινοτομίας,* Λάρισα, 13 - 15 Οκτωβρίου, 2017

G2. Ελευθέριος Μωυσιάδης, Αθηνά Μαλουμίδου και Παπαδόπουλος Ιωάννης, **Διαδικτυακή υπηρεσία για την δημιουργική απασχόληση παιδιών με ειδικές ανάγκες**, *i-TEACHER*, ISSN : 1792-4146, 11, 40-48, 2015

G3. Ανθή Ηλιοπούλου, Ελευθέριος Μωυσιάδης, **Το εκπαιδευτικό βίντεο στην εκπαίδευση από απόσταση ενηλίκων. Μελέτη περίπτωσης**. *Τα Πρακτικά του Συνεδρίου «Η Εκπαίδευση στην εποχή των Τ.Π.Ε.»*, Αθήνα, 7 και 8 Νοεμβρίου 2015, ISBN: 978-960-99435-8-1 (e-book)

G4. Ελευθέριος Μωυσιάδης, Αναστασία Λιάπη, Γεωργία Ζουμπούλη, Ανθή Ηλιοπούλου, **Εκμάθηση χρωμάτων και σχημάτων με αξιοποίηση κινητών συσκευών,** *Τα Πρακτικά του Συνεδρίου «Η εκπαίδευση στην εποχή των Τ.Π.Ε.»*, Αθήνα, 22 και 23 Νοεμβρίου 2014, ISBN: 978-960-99435-6-7 (e-book), Σελ. 947-954

Educational Texts

S1. Lefteris Moussiades, **Applications Development**, Notes on the homonymous course of graduate study program "Advanced Technologies in Informatics and Computers", Computer and Informatics Engineering Department, Eastern Macedonia & Thrace Institute of Technology, 2016.

S2. Lefteris Moussiades, **Programming the World Wide Web** (**HTML** και **CSS)**, Notes on the homonymous course of 4th semester of Computer and Informatics Engineering Department, Eastern Macedonia & Thrace Institute of Technology, 2015.

S3. Lefteris Moussiades, **Programming the World Wide Web II** (**Javascript** και **JQuery)**, Notes on the homonymous course of 4th semester of Computer and Informatics Engineering Department, Eastern Macedonia & Thrace Institute of Technology, 2015.

S4. Lefteris Moussiades, **Programming Techniques**, Notes on the homonymous course of 2th semester of Computer and Informatics Engineering Department, Eastern Macedonia & Thrace Institute of Technology, 2012.

S5. Lefteris Moussiades, **Object Oriented Programming**, Notes on the homonymous course of 3th semester of Computer and Informatics Engineering Department, Eastern Macedonia & Thrace Institute of Technology, 2011.

Translation-Editing of Books

1. Horstmann Cay, Η γλώσσα προγραμματισμού JAVA-Αναλυτική Προσέγγιση, ISBN: 9789925576470, 1/2021, BROKEN HILL PUBLISHERS LTD, Κωδικός Βιβλίου στον Εύδοξο: 94643857

2. Spurrier Gary, Topi Heikki, Ανάλυση και Σχεδίαση Συστημάτων-Σε μια Εποχή με Πολλαπλές Επιλογές, ISBN: 9789925350766, 2022, BROKEN HILL PUBLISHERS LTD, Κωδικός Βιβλίου στον Εύδοξο: 112690670

European community funding programmes

1. «**STRENGTHENING STUDIES IN INFORMATICS at TEI KAVALA**» of EPEAEK II, from 01/09/2006 to 31/08/2008, payment 12.000 Euro. Institutional responsible was professor Vasilios Chatzis.

2. «**MODIP OF TEI KAVALA**» of «**Education and lifelong learning**», from 01/01/2012 to 31/08/2013, payment 400 Euro. Institutional responsible was professor Dimitrios Mpantekas.

3. «**INTERREG GREECE–BULGARIA 2007–2013 – INTEGRATING THE GREEK – BULGARIAN TOURISM PRODUCT**», from 08/03/2012 to 07/03/2014, without payment. Institutional responsible was Assistant professor Efstathios Dimitriadis.

4. «**OPEN COURSES** » of « **EDUCATION AND LIFELONG LEARNING 2007-2013**»

- from 01-10-2014 to 16-01-2015, 535,00 Euro
- from 01-02-2015 to 15-07-2015, 786,04 Euro.

Institutional responsible was Assistant professor Avgoustos Tsinakos

5. «**PEGA–APPLICATIONS DEVELOPMENT FOR MOBILE DEVICES**» of «**EDUCATION AND LIFELONG LEARNING 2007-2013**», from 15/06/2015 to 31/10/2015, 5.890,80 Euro. Institutional responsible was Assistant professor Avgoustos Tsinakos

6. «**TRAINEESHIP FOR STUDENTS OF EMT TEI**» of «**EDUCATION AND LIFELONG LEARNING 2007-2013**»

- from 01-10-2010 to 30-09-2013, 1.500,00 Euro
- from 01-04-2011 to 30-09-2011,   300,00 Euro
- from 01-10-2011 to 31-03-2012,   360,00 Euro
- from 01-04-2012 to 30-09-2012,   420,00 Euro
- from 01-10-2012 to 31-03-2013,   300,00 Euro
- from 01-04-2013 to 30-09-2013,   240,00 Euro
- from 01-10-2013 to 31-03-2014,   180,00 Euro
- from 01-04-2014 to 30-09-2014,   300,00 Euro
- from 01-10-2014 to 31-03-2015,   240,00 Euro
- from 01-04-2015 to 30-09-2015,   120,00 Euro

Institutional responsible was Assistant professor Avgoustos Tsinakos

7. «**TRAINEESHIP FOR STUDENTS OF EMT TEI**» of «**EDUCATION AND LIFELONG LEARNING 2014-2020**», from 01-04-2016 to 31-10-2016, 700 Euro 700 per semester

8. Works within the competence of IHU in the Call EDBM113 "**Accelerated training of teachers in the implementation of distance education (holistic approach)**" with a duration from 11-03-2021 to 09/06/2021, with a total fee of 2,267.20 euros.

Other Info

1. Third award for the best mobile app, Industrial Informatics Festival, 2011.

2. Participation in the competition of Entrepreneurship and Innovation "Crazy Business Ideas" organized by IST College in 2012. Application "Emergency Call", https://www.youtube.com/watch?v=A1jkv-rlSYk