

# Konstantinos Mastakas

Curriculum Vitae

September 25, 2016

## Personal Information

I am a Greek citizen, born in Athens, Greece on November 27, 1988.

## Contact Information

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## Research Interests

I am interested in the design, analysis and implementation of algorithms for computational problems related to computational geometry, graph drawing, operations research and combinatorial optimization.

## Education

Present: Ph.D. candidate in School of Applied Mathematical and Physical Sciences, National Technical University of Athens (NTUA). Supervisor: Antonios Symvonis, Professor.

2011 - M.Sc. in Logic, Algorithms and Computation, Joined M.Sc. program of National and Kapodistrian  
2014 University of Athens, National Technical University of Athens and University of Patras.

2006 - Diploma in Applied Mathematical and Physical Sciences, National Technical University of Athens  
2011 Major: Applied Mathematics, Minor: Applied Analysis and Mathematics for Informatics

## Awards and Distinctions

2014: Graduated with excellence from the graduate program in Logic, Algorithms and Computation, GPA:9/10.

[As an undergraduate student in School of Applied Mathematical and Physical Sciences, NTUA](#)

2011: Graduated first, with the highest GPA among the graduates, GPA:9.77/10.

Award accompanied with the Prometheus silver medal by NTUA and C. Chrysovergis award.

2009: 2nd Prize in the 16th International Mathematics Competition (IMC).

Member of NTUA's team, selected after an internal competition.

2007- 3rd Prize in the 15th IMC. Member of NTUA's team, selected after an internal competition.

2008: Bronze Medal in the 2nd South Eastern European Mathematical Olympiad for University Students.

Member of the Greek National team, selected after a national competition.

Highest total grade points among the 2nd year students over all the mathematical courses.

C. Papakyriakopoulos award.

2006 - Highest total grade points among the 1st year students :

2007 over all the first year courses. State Scholarships Foundation award.

over all the mathematical courses. C. Papakyriakopoulos award and N. Kritikos scholarship.

## Research Programs

1/2012- eCO-friendly urban Multi-modal route Planning Services for Mobile uSers (eCOMPASS) ,  
9/2014 European Union Seventh Framework Program

## Selected Subset of my Publications

### in Journals

- **Efficient Metaheuristics for the Mixed Team Orienteering Problem with Time Windows**  
D. Gavalas, C. Konstantopoulos, K. Mastakas, G. Pantziou, N. Vathis  
*Algorithms*, Vol. 9(1), 6, 2016
- **Approximation algorithms for the arc orienteering problem**  
D. Gavalas, C. Konstantopoulos, K. Mastakas, G. Pantziou, N. Vathis  
*Information Processing Letters*, Vol. 115(2), pp. 313-315, 2015
- **A survey on algorithmic approaches for solving tourist trip design problems**  
D. Gavalas, C. Konstantopoulos, K. Mastakas, G. Pantziou  
*Journal of Heuristics*, Vol. 20(3), pp. 291-328, 2014

## in Conferences

- **On the construction of increasing-chord graphs on convex point sets**  
K. Mastakas, A. Symvonis  
6th International Conference on Information, Intelligence, Systems and Applications (IISA 2015), Corfu, Greece, July 6-8, 2015. IEEE, pp. 1-6.
- **Efficient Heuristics for the Time Dependent Team Orienteering Problem with Time Windows**  
D. Gavalas, C. Konstantopoulos, K. Mastakas, G. Pantziou, N. Vathis  
*In Proc. of the First International Conference on Applied Algorithms (ICAA 2014), Kolkata, India, January 13-15, 2014. Lecture Notes in Computer Science, 2014, Vol. 8321, pp. 152-163.*

## Teaching Experience

I have been a teaching or laboratory assistant in the following undergraduate courses of School of Applied Mathematical and Physical Sciences, National Technical University of Athens:

2012 – present: **Introduction to Programming** (using Java), *Laboratory Assistant*

2014 – present: **Design - Development of Computer Applications** (using Java), *Laboratory Assistant*

2014 - present: **Algorithms and Complexity**, *Teaching Assistant*

## Languages

**Greek:** Native    **English:** Fluent, Certificate of Proficiency, University of Michigan

## COMPUTER SKILLS

*Operating Systems:* I currently use GNU/Linux Ubuntu. I have also used Microsoft Windows distributions.

*Programming:* I have coded in C++ and nowadays, I code in **Java**. I like to edit the source code using the gVim text editor, the graphical version of Vim, and compile using the command window. I also use the Netbeans and Bluej IDEs.

*Typography:* My presentations, reports and articles are usually written in **LaTeX**. The text is edited mostly using gVim and compiled with commands in the command window. I have also used IDEs like Texmaker and Kile. Occasionally, I use the text editors and presentation tools of LibreOffice, Open Office and Microsoft Office.