# **CIAC 2017**

# 10th International Conference on Algorithms and Complexity



National Technical University of Athens May 24-26, Athens, Greece

#### Welcome to Athens!

The 10th International Conference on Algorithms and Complexity, CIAC 2017, is held at the National Technical University of Athens, Greece, during May 24-26, 2017. This leaflet contains the conference program, the abstracts of the invited talks and short bios of the invited speakers, and some useful information about getting around in Athens.

We gratefully acknowledge the support from the National Technical University of Athens and its School of Electrical and Computer Engineering, the Institute of Communications and Computer Systems, the Greek Chapter of the IEEE Computer Society, Upcom, Simmetria Publications, Springer, and the European Association for Theoretical Computer Science (EATCS).

We would also like to thank the Local Arrangements Committee, and in particular, Alexandros Angelopoulos, Antonis Antonopoulos, Aggeliki Chalki, Eleni Iskou, Natalia Kotsani, Stratis Skoulakis, and Lydia Zakynthinou for their active participation in several organization tasks.

May 2017 The organizers

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# Program

10th International Conference on Algorithms and Complexity — CIAC 2017  May 24 – 26, National Technical University of Athens, Greece					
Tuesday, May 23					
18:30 - 19:30   Registration					
19:30 - 21:00	*				
200 245	Wednesday, May 24				
8:00-8:45	Registration				
9:00 - 10:00	Invited Talk 1 – Chair: Dimitris Fotakis Klaus Jansen New Algorithmic Results for Bin Packing and Scheduling				
10:00 - 10:30	Coffee Break				
10:30 - 12:35	Session 1 – Chair: Guido Schäfer  Fidaa Abed, Lin Chen, Yann Disser, Martin Groß, Nicole Megow, Julie Meissner, Alexander Richter and Roman Rischke  Scheduling Maintenance Jobs in Network				
	Klaus Jansen, Marten Maack and Roberto Solis-Oba Structural Parameters for Scheduling with Assignment Restrictions				
	Yuval Emek, Yaacov Shapiro and Yuyi Wang Minimum Cost Perfect Matching with Delays for Two Sources				
	Toshihiro Fujito Approximating Bounded Degree Deletion via Matroid Matching				
	Aritra Banik, Matthew Katz, Eli Packer and Marina Simakov Tracking Paths				
12:35 - 14:00					
	Session 2 – Chair: Vangelis Markakis				
14:00 – 16:05	Laurent Gourvès and Jérôme Monnot Approximate Maximin Share Allocations in Matroids				
	Matthias Feldotto, Lennart Leder and Alexander Skopalik  Congestion Games with Complementarities				
	Pieter Kleer and Guido Schäfer Tight Inefficiency Bounds for Perception-Parameterized Affine Congestion Games				
	Martin Gairing, Konstantinos Kollias and Grammateia Kotsialou Cost-Sharing in Generalized Selfish Routing				
	Themistoklis Melissourgos and Paul Spirakis  Existence of evolutionarily stable strategies remains hard to decide for a wide range of payoff values				
16:05 - 16:40					
16:40 - 18:20	Session 3 – Chair: Hans Bodlaender				
	Petr Golovach, Dieter Kratsch and Mohamed Yosri Sayadi Enumeration of Maximal Irredundant Sets for Claw-Free Graphs				
	Sándor Kisfaludi-Bak and Tom C. van der Zanden On the Exact Complexity of Hamiltonian Cycle and q-Colouring in Disk Graphs				
	Lars Jaffke and Bart M. P. Jansen Fine-Grained Parameterized Complexity Analysis of Graph Coloring Problems				
	Akanksha Agrawal, Lawqueen Kaneshiji Saket Saurabh and Prafullkumar Tale Paths to Trees and Cacti				

Thursday, May 25				
Invited Talk 2 – Chair: Aris Pagourtzis				
9:00-10:00	Giuseppe F. Italiano			
	2-Edge and 2-Vertex Connectivity in Directed Graphs			
10:00 - 10:30				
	Session 4 – Chair: Paul Spirakis			
10:30 - 12:35	Giovanni Viglietta, Giuseppe Antonio Di Luna, Paola Flocchini, Taisuke Izumi, Tomoko Izumi and Nicola Santoro Population Protocols with Faulty Interactions: the Impact of a Leader			
	Sebastian Brandt, Felix Laufenberg, Yuezhou Lv, David Stolz and Roger Wattenhofer Collaboration without Communication: Evacuating Two Robots from a Disk			
	Klaus-Tycho Foerster, Linus Groner, Torsten Hoefler, Michael Koenig, Sascha Schmid and Roger Wattenhofer  Multi-Agent Pathfinding with n Agents on Graphs with n Vertices: Combinatorial Classification and Tight Algorithmic Bounds			
	Jaroslav Opatrny, Jurek Czyzowicz, Evangelos Kranakis, Danny Krizanc, Lata Narayanan and Sunil Shende Linear Search with Terrain-Dependent Speeds			
	Stefan Dobrev, Evangelos Kranakis, Danny Krizanc, Manuel Lafond, Jan Manuch, Lata Narayanan, Jaroslav Opatrny and Ladislav Stacho Weak Coverage of a Rectangular Barrier			
12:35 - 14:00	Lunch Break			
	Session 5 – Chair: Vangelis Paschos			
14:00 - 14:50	Hans L. Bodlaender and Tom C. van der Zanden Improved Lower Bounds for Graph Embedding Problems			
	Robert Bredereck, Christian Komusiewicz, Stefan Kratsch, Hendrik Molter, Rolf Niedermeier and Manuel Sorge Assessing the Computational Complexity of Multi-Layer Subgraph Detection			
14:50 - 15:30				
15:30 - 16:45	Session 6 – Chair: Stathis Zachos			
	Martin Fürer On the Combinatorial Power of the Weisfeiler-Lehman Algorithm			
	Jason Crampton, Gregory Gutin, Martin Koutecký and Rémi Watrigant Parameterized Resiliency Problems via Integer Linear Programming			
	Erik D. Demaine, Isaac Grosof and Jayson Lynch  Push-Pull Block Puzzles are Hard			
16:45 - 16:50	Short Break			
16:50 - 17:40	Special Session Dedicated to the 70th Birthday of Stathis Zachos			
18:00 - 22:30	Social program: visit to Vorres museum of folk and contemporary art, Paiania, dinner at Mare Nostrum hotel, Vravrona			

Friday, May 25				
	Invited Talk 3 – Chair: Vangelis Paschos			
9:30-10:30	Christos H. Papadimitriou			
10:30 - 11:30	TFNP: An Update			
10.30 - 11.30	Session 7 – Chair: Evangelos Kranakis			
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	Torben Hagerup, Frank Kammer and Moritz Laudahn Space-Efficient Euler Partition and Bipartite Edge Coloring			
	Lukas Gianinazzi and Barbara Geissmann Cache Oblivious Minimum Cut			
	Konstantinos Mastakas and Antonios Symvonis Rooted Uniform Monotone Minimum Spanning Trees			
	Oylum Şeker, Pinar Heggernes, Tınaz Ekim and Z. Caner Taşkın  Linear-time generation of random chordal graphs			
12:40 - 14:00	, , , , , , , , , , , , , , , , , , ,			
	Session 8 – Chair: Petr Golovach			
14:00 - 15:40	Eleni C. Akrida, Jurek Czyzowicz, Leszek Gasieniec, Lukasz Kuszner and Paul Spirakis Temporal flows in temporal networks			
	Ioannis Lamprou, Russell Martin and Sven Schewe Perpetually Dominating Large Grids			
	Cristina Bazgan, Thomas Pontoizeau and Zsolt Tuza On the complexity of finding a potential community			
	Yuya Higashikawa, Keiko Imai, Yusuke Matsumoto, Noriyoshi Sukegawa and Yusuke Yokosuka			
15:40 - 16:10	Minimum Point-Overlap Labeling Coffee Breek			
15.40 - 10.10	Session 9 – Chair: Martin Fürer			
16:10 – 17:50	Nader Bshouty and Ariel Gabizon  Almost Optimal Cover-Free Families			
	Eleni Bakali, Aggeliki Chalki, Aris Pagourtzis, Petros Pantavos and Stathis Zachos Completeness results for counting problems with easy decision			
	Sascha Brauer Complexity of Single-Swap Heuristics for Metric Facility Location and Related Prob- lems			
	Li-Hsuan Chen, Sun-Yuan Hsieh, Ling-Ju Hung, Ralf Klasing, Chia-Wei Lee and Bang Ye Wu On the complexity of the star p-hub center problem with parameterized triangle in-			
	equality			
17:50 - 18:00	Concluding Remarks			

#### **Invited Talks**

#### - Klaus Jansen - New Algorithmic Results for Bin Packing and Scheduling

**Abstract.** In this paper we present an overview about new results for bin packing and related scheduling problems. During the last years we have worked on the design of efficient exact and approximation algorithms for packing and scheduling problems. In order to obtain faster algorithms we studied integer linear programming (ILP) formulations for these problems and proved structural results for optimum solutions of the corresponding ILPs.

Klaus Jansen is a Professor of Computer Science at the University of Kiel, which he joined in October 1999. He is the head of the Algorithms and Complexity group of the Institut für Informatik. Previously, Klaus Jansen was a researcher at the Max-Planck-Institut für Informatik in Saarbrücken and at the Instituto Dalle Molle di Studi sull'Intelligenza Artificiale in Lugano. He received the PhD degree and habilitation in mathematics from the University of Trier in 1990 and 1994, respectively, and his diploma degree in Computer Science from the RWTH Aachen in 1986. Klaus Jansen works on the design of approximation and online algorithms for various combinatorial optimization problems (including scheduling, packing, knapsack problems), the development for new techniques for (integer) linear programming and on lower bounds on the approximability and running time of algorithms for optimization problems. He has created several Computer Science courses (Efficient Algorithms, Operations Research, Approximation Algorithms) and serves the University of Kiel for example as a study coordinator in Business Information Technology. He was the coordinator of the European thematic network APPOL and participant in many national and international research projects supported by the DAAD, DFG and EU. He was a guest professor at the University of Duisburg, TU Munich, ETH Zurich, University of Evry, University of Grenoble and University of Paris-Dauphine.

#### - Giuseppe F. Italiano - 2-Edge and 2-Vertex Connectivity in Directed Graphs

Abstract. We survey some recent results on 2-edge and 2-vertex connectivity problems in directed graphs. Despite being complete analogs of the corresponding notions on undirected graphs, in digraphs 2-vertex and 2-edge connectivity have a much richer and more complicated structure. It is thus not surprising that 2-connectivity problems on directed graphs appear to be more difficult than on undirected graphs. For undirected graphs it has been known for over 40 years how to compute all bridges, articulation points, 2-edge- and 2-vertex-connected components in linear time, by simply using depth-first search. In the case of digraphs, however, the very same problems have been much more challenging and required the development of new tools and techniques.

Giuseppe F. Italiano is a Professor of Computer Science at University of Rome "Tor Vergata" in Italy. His main research interests lie in the design and analysis of algorithms and data structures. In particular, he is interested in several research areas, including algorithm engineering, combinatorial algorithms, computer security, graph algorithms and string algorithms. In those areas, he has published over 250 papers in journals and conference proceedings, is the inventor of few US patents, and has co-founded two technology startups, one focusing on security for mobile devices and the other on wireless technologies for pervasive and mobile computing. In 2016 he was named Fellow of the EATCS for "fundamental contributions to the design and analysis of algorithms for solving theoretical and applied problems in graphs and massive data sets, and for his role in establishing the field of algorithm engineering". Giuseppe F. Italiano has been serving as Editor-in-Chief and Associate Editor in several journals in theoretical computer science. His research has been funded by several EU projects, industrial contracts and by the Italian Ministry of Education, University and Research.

## - Christos H. Papadimitriou - TFNP: An Update

**Abstract.** The class TFNP was introduced a quarter of a century ago to capture problems in NP that have a witness for all inputs. A decade ago, this line of research culminated in the proof that the NASH equilibrium problem is complete for the subclass PPAD. Here we review some interesting developments since.

Christos H. Papadimitriou is the C. Lester Hogan Professor of Computer Science at UC Berkeley. Before joining Berkeley in 1996, he taught at Harvard, MIT, NTU Athens, Stanford, and UCSD. He has written five books, including standard textbooks on Combinatorial Algorithms, the Theory of Computation, and Computational Complexity, and many articles on algorithms and complexity, and their applications to optimization, databases, control, AI, robotics, economics and game theory, the Internet, evolution, and the brain. He holds a PhD from Princeton, and eight honorary doctorates. He is a member of the National Academy of Sciences of the US, the American Academy of Arts and Sciences, and the National Academy of Engineering. He is the recipient of the Knuth prize, the Gödel prize, the EATCS award, the von Neumann medal, and in 2013 the President of Greece named him Commander of the Order of the Phoenix. He has also written a book of essays (in Greek) and three novels: "Turing", "Logicomix" (with A. Doxiadis) and "Independence" (2017).

## **Public Transport**

#### From/To Airport To/From City Center

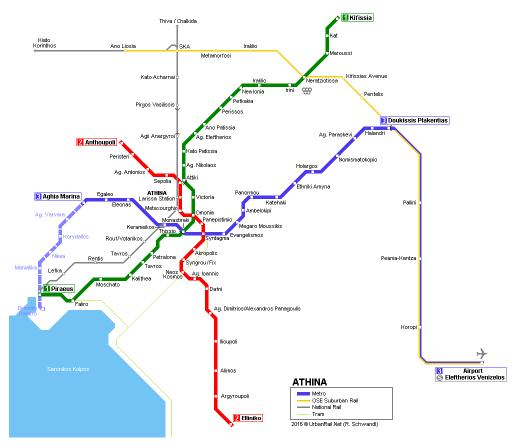
- By bus. You can take the X95 Syntagma Airport bus. It arrives at the Departure Level and it departs from Exits 4 and 5 at the Arrival Level. It takes around 70 minutes. If you need to travel to/from destinations other than the city center, you can check the other airport lines X93, X96, X97. All the aforementioned buses run 24 hours a day, 7 days a week and the ticket cost is €6.
- By Metro. You can take Metro Line 3 (Aghia Marina Douk. Plakentias Airport). Trains run every 30 minutes, 7 days a week from 6:30 a.m. to 11:30 p.m. The trip from/to the Airport to Syntagma station (city center) lasts around 40 minutes. The ticket cost is €10.
- By Taxi. A taxi from the airport to the city center costs a flat rate of €38 from 5:00 a.m. to midnight, and €54 from midnight to 5:00 a.m.

#### Moving around the city

City buses and electrical trolley-buses serve Athens and its suburbs. Operating hours vary according to line/day/season, but generally they run between 5:00 a.m. – midnight. You can find routes, maps and real time bus movement information for every line on the website http://telematics.oasa.gr/en. You can also get additional information by calling 11185 from a Greek phone.

The Athens Metro has 3 lines.

- Line 1 (green line): Kifisia Piraeus
- Line 2 (red line): Anthoupoli Eliniko
- Line 3 (blue line): Airport Douk. Plakentias Aghia Marina



Operating hours are 5:30 a.m. to 00:30 a.m., and every Friday and Saturday night, lines 2 and 3 stay open until 2:30 a.m.

You can also use the Tram. Operating hours are 5:30 a.m. to 1:00 a.m. and on Fridays and Saturdays it operates from 5:30 a.m. to 2:30 a.m. Information on the Athens Tram and Metro, including timetables, can be found on the website http://www.stasy.gr/index.php?id=33&no\_cache=1&L=1.

You can use the same tickets for all the aforementioned means (excluding tickets from/to the airport). The types of tickets are

- 90-minute tickets which are valid for 90 minutes after their validation for transportation. The cost for this ticket is €1.40.
- Tourist tickets which are valid for one round trip from/to Athens International airport by Metro or Express Bus and unlimited travel on all other modes for 3 days. Its cost is €22.
- 24-hour and 5-day which are valid for 24 and 524 hours respectively after the first validation. The 24-hour ticket costs €4.5 and the 5-day ticket costs €9.

You can buy these tickets from

- 1. Automatic ticket issuing machines at all Metro, Tram, and Suburban Railway stations
- 2. Ticket offices at many Metro, Tram and Suburban railway stations (Operating hours of Athens Metro ticket offices)
- 3. Blue/yellow ticket booths next to many central bus stations
- 4. Almost any newsstands/kiosks

An exception is the tourists ticket which is available only at a limited number of Metro Stations so if you plan to use it you are advised to buy it at the airport. Tickets for the airport bus lines can also be bought from the bus drivers.

In buses, validation of the ticket is done in the orange machine (and not the more modern blue ones) which are usually in the middle of the bus.

Finally you can use taxis to move around the city. You can find taxis in taxi stations which are located in many central streets. Alternatively you can call a service to get one, such as

- Protoporia, 210 2130400 (please wait for a short message in Greek to end and speak after the beep)
- 18300 or 18180

You can find the taxi fares on the link https://tinyurl.com/l4vvabj.

#### From City Center to the Conference Venue

The NTUA Campus can be accessed through three gates:

- (i) Katehaki Gate, which is continuously open mainly for vehicles (pedestrians should avoid it no zebra crossings).
- (ii) Kokkinopoulou Gate, which is open to vehicles and pedestrians Monday–Friday during day.
- (iii) Zografou Gate, which is mainly a pedestrian gate and opens to vehicles from 7:00 to 9:00 and 14:00 to 16:00.

By far the easiest way to get to the conference is the following:

- 1. Arrive at Metro Station Katehaki through line 3 (blue line).
- 2. Walk across the road to the bus stop and take the bus 242 which goes to the NTUA Campus (travel time approximately 7 minutes).
- 3. Get off at Thyroreio stop which is the first stop inside the NTUA Campus.
- 4. Walk 3 minutes to the Electrical and Computer Engineering Building. Follow the signs to CIAC 2017.

Additionally, Katehaki bus stop offers the following options:

- Every morning, every half hour from 8:00 to 9:30 there is a free NTUA coach. You can just jump in.
- You can also take the bus line 140, get off at Polytechnioupoli stop, get inside the NTUA Campus (through Kokkinopoulou Gate) and walk for about 7 minutes to the Electrical and Computer Engineering Building. Follow the signs to CIAC 2017.

Alternatively, you can get the bus lines 608 or 230 from Syntagma and get off at stop 8h ZOGRAFOU stop. From there you can walk approximately 3 minutes to get inside the NTUA Campus (through Zografou Gate) and 10 minutes to the Electrical and Computer Engineering Building. Follow the signs to CIAC 2017.

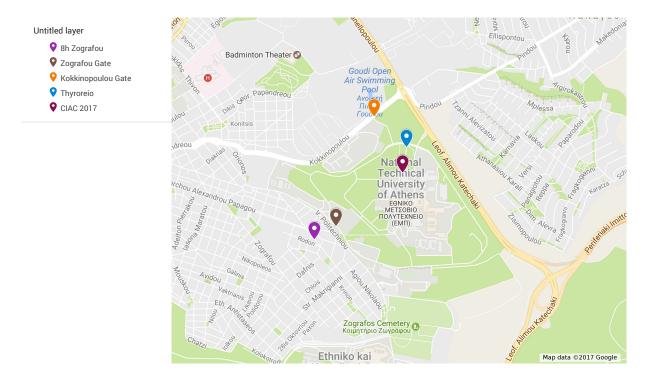
#### From the Conference Venue to City Center

You can take:

- The bus line 242 from PYLI KOKKINOPOYLOY stop (inside campus) to the Katehaki Metro Station, or
- The bus lines 242/140 from POLYTECHNEIOPOLI stop (just outside Kokkinopoulou Gate) to the Katehaki Metro Station, or
- The bus lines 230/608 from 9h ZOGRAFOU bus stop (just outside Zografou Gate) to Syntagma.

For those who prefer walking, please note that the entrance / exit through Katehaki Gate should be avoided as there are no zebra crossings for pedestrians close to the gate.

## **CIAC 2017**



## Restaurants in Athens

Restaurant	Adress	Phone Number (country code +30)
*Oikeio (Greek Cuisine)	Ploutarchou 15, Kolonaki	210 7259216
GouGou Meze (Greek Tavern)	Sina 6, Kolonaki	210 3645575
Spyros & Vasilis (French)	Lachitos 5, Kolonaki	210 7237575
Il postino (Italian)	Grivaion 3, Kolonaki	210 3641414
Rakaki (Cretan Cuisine)	Moschonision 2-4, Kaisariani	210 7237457
Skalakia (Greek Tavern)	Aiginitou 32, Ilisia	210 7229290
Milos (fish)	Vas. Sofias 46	210 7244400
*Papasideris (Greek Tavern)	Evrou 98, Ambelokipoi	210 7773220
*Mavro Provato (Greek Tapas)	Arrianou 31-33, Pagrati	210 7223469
*Colibri (Burger-Pizza)	Empedokleous 9-13, Pagrati	210 7011011
Ok Kitchen (Chinese)	Artotinis 4, Pagrati	210 7520887
To koutouki tou Marathoniti (Music Tavern)	Imittou 253 & Vingelman, Mets	210 7017404
Tzitzikas & Mermigkas (Greek Tavern)	Mitropoleos 12-14, Syntagma	210 3247607
*Kafeneio (Greek Tavern)	Epiharmou 1 & Tripodon, Plaka	210 3246916
*Aglio, Olio, Pepperoncino (Italian)	Porinou 13, Thissio	210 9211801
Kuzina (Greek Cuisine)	Adrianou 9, Thissio	210 3240133
Trapezaria (Modern Greek)	Theodorou Negri 1, Makrigianni	210 9213500
Atheri (Greek Restaurant)	Plataion 15, Kerameikos	210 3462983
Chrysa (Greek Restaurant)	Artemisiou 4 & Keramikou, Kerameikos	210 3412515
Tirbouson (Modern Greek)	Konstantinoupoleos 104, Kerameikos	210 3410107
Anadolou (Turkish Cuisine)	Bousgou 2, Pedion tou Areos Park, Gyzi	210 6431990
*Yandes (Modern Greek)	Valtetsiou 44, Exarhia	210 3301369
*Rififi (Greek Cuisine)	Emm. Benaki 69 & Valtetsiou, Exarhia	210 3300237
*Taverna Oikonomou (Greek Cuisine)	Troon 1, Ano Petralona	210 3467555
O Santorinios (Greek Cuisine)	Dorieon 8, Ano Petralona	210 3451629

Places marked with a  $\ast$  in the above list appear in the list of strictly non-smoking places at http://forum.nosmoke.gr/entertainment/list.

You can also find some smoke-free cafés, bars and restaurants at

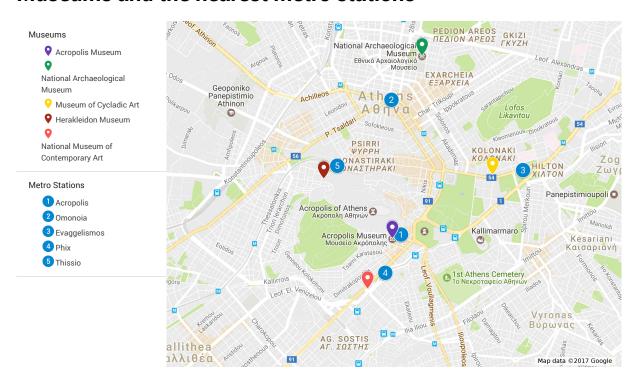
 $<sup>\</sup>verb|http://www.greece-is.com/athenian-hangouts-without-smoke/|.$ 

#### Museums

The following is a list of the most important museums in the center of Athens. You can reach each one of them by metro.

- Acropolis Museum, 15 Dionysiou Areopagitou Street, 210 9000900, http://www.theacropolismuseum.gr/en
- National Archaeological Museum, 44 Patission Street, 213 2144800, http://www.namuseum.gr/en
- Museum of Cycladic Art, 4 Neophytou Douka Street, 210 7228321-3, https://www.cycladic.gr/en
- Herakleidon Museum, 37 Ap. Pavlou Street, 211 0126486, http://herakleidon-art.gr/en-us
- National Museum of Contemporary Art, Kallirrois Ave. & Amvr. Frantzi Str, 211 1019000-99, http://www.emst.gr/en

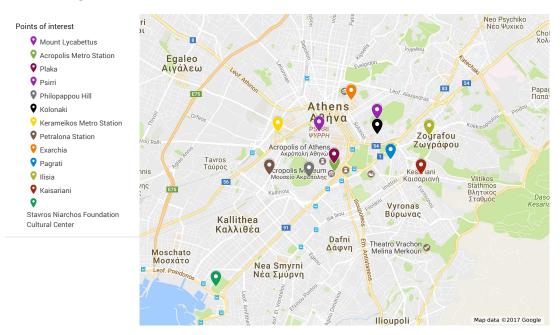
# Museums and the nearest metro stations



## **Exploring Athens**

- 1. Visit the Lycabettus Hill, the highest point in the city center, to enjoy a panoramic view of Athens. The hill can be ascended on foot, by car or by the Lycabettus Teleferik, a funicular railway which climbs the hill through a tunnel starting from a lower terminus at Kolonaki (Aristippou & Ploutarchou Str). There is also a café restaurant on the top of the hill.
- 2. Discover the areas around the Acropolis. Starting from Acropolis Metro Station, follow Dionysiou Areopagitou Street, a pedestrianized street adjacent to the south slope of Acropolis. Then keep on walking on Apostolou Pavlou and Agion Asomaton Str until you get to Thissio Station. From there you can either take a walk through Plaka (Adrianou str), wandering around the narrow streets, full of archaeological sites and neoclassical buildings, or go to Monastiraki flea market and Psirri, where you can taste delicious desserts at Serbetia (3 Eschilou Str).
- 3. Visit Stavros Niarchos Foundation Cultural Center (364 Syggrou Avenue, Kallithea), where lots of cultural and sports activities take place. For a detailed program check the website https://www.snfcc.org/default.aspx
- 4. The areas of Psirri, Kerameikos, Petralona and Exarchia are meeting points with lots of bars and cafés. Each of them has its own character and is interesting to visit in the daylight as well.
- 5. Take the tram from Syntagma square and get to the seaside front of Athens, an area with cases and recreational areas and great sea view. Hop on and off at will with the same 90-minute ticket.
- 6. If your schedule permits consider visiting Aegina island (1.5 hrs by boat or 40 mins by flying dolphin from Piraeus). Aegina is a very picturesque island with an impressive ancient temple dominating on a mountain top.
- 7. You will find more, very useful information at http://www.thisisathens.org. Check also the http://www.spottedbylocals.com/athens/site.

# **Exploring Athens**



## CIAC 2017 Sponsors













