

SAGT 2019

12th International Symposium on
Algorithmic Game Theory



National Technical University of Athens
September 30 - October 3, Athens, Greece

Welcome to Athens!

The 12th International Symposium on Algorithmic Game Theory (SAGT 2019) is held at the National Technical University of Athens, Greece, during September 30 - October 3, 2019. This leaflet contains the conference program and 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 Communication and Computer Systems, the Athens University of Economics and Business and its Department of Informatics, Facebook, the EU COST Action GAMENET (CA 16228, the European Network for Game Theory), Springer, and the European Association for Theoretical Computer Science (EATCS).

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September 2019

The organizers

Program

12th International Symposium on Algorithmic Game Theory – SAGT 2019 September 30 – October 3, National Technical University of Athens, Greece	
Monday, September 30	
9:30 – 9:50	Registration
9:50 – 10:00	Opening
10:00 – 11:00	Tutorial 1 Georgios Piliouras <i>Learning in Zero-Sum Games Revisited: The Connection to Physics and Conservative Systems, Part I</i>
11:00 – 11:30	Coffee break
11:30 – 12:30	Tutorial 1 Georgios Piliouras <i>Learning in Zero-Sum Games Revisited: The Connection to Physics and Conservative Systems, Part II</i>
12:30 – 15:00	Lunch break
15:00 – 16:00	Tutorial 2 Vasilis Syrgkanis <i>Econometrics and Machine Learning, Part I</i>
16:00 – 16:30	Coffee break
16:30 – 17:30	Tutorial 2 Vasilis Syrgkanis <i>Econometrics and Machine Learning, Part II</i>
17:30 – 18:00	Registration (Electrical and Computer Engineering Building)
18:00 – 21:00	Welcome reception (Electrical and Computer Engineering Building)

Tuesday, October 1	
9:00 – 9:20	Registration
9:20 – 9:30	Opening of SAGT 2019
9:30 – 10:30	Invited Talk 1 – Chair: Evangelos Markakis Maria-Florina Balcan <i>Machine Learning for Mechanism Design</i>
10:30 – 11:00	Coffee break
11:00 – 12:40	Session 1 – Chair: Ioannis Caragiannis Eleni C. Akrida, Argyrios Deligkas, Themistoklis Melissourgos and Paul Spirakis <i>Connected Subgraph Defense Games</i> Sigal Oren and Dolav Soker <i>Principal-Agent Problems with Present-Biased Agents</i> Max Klimm, Daniel Schmand and Andreas Tönnis <i>The Online Best Reply Algorithm for Resource Allocation Problems</i> Vittorio Bilò, Laurent Gourves and Jerome Monnot <i>On a Simple Hedonic Game with Graph-Restricted Communication</i>
12:40 – 14:30	Lunch
14:30 – 15:45	Session 2 – Chair: Adrian Vetta Joseph Halpern, Rafael Pass and Daniel Reichman <i>On the Existence of Nash Equilibrium in Games with Resource-Bounded Players</i> Avrim Blum, Nika Haghtalab, Mohammadtaghi Hajiaghayi and Saeed Seddighin <i>Computing Stackelberg Equilibria of Large General-Sum Games</i> Marie Louisa Tølbøll Berthelsen and Kristoffer Arnsfelt Hansen <i>On the Computational Complexity of Decision Problems about Multi-Player Nash Equilibria</i>
15:45 – 16:15	Coffee break
16:15 – 17:55	Session 3 – Chair: Joseph Halpern Chi-Kit Lam and C. Gregory Plaxton <i>On the Existence of Three-Dimensional Stable Matchings with Cyclic Preferences</i> Chi-Kit Lam and C. Gregory Plaxton <i>Maximum Stable Matching with One-Sided Ties of Bounded Length</i> Daniel Halpern and Nisarg Shah <i>Fair Division with Subsidy</i> Soheil Behnezhad, Mahsa Derakhshan, Alireza Farhadi, Mohammadtaghi Hajiaghayi and Nima Reyhani <i>Stochastic Matching on Uniformly Sparse Graphs</i>

Wednesday, October 2	
9:30 – 10:30	Invited Talk 2 – Chair: Dimitris Fotakis Herve Moulin <i>Guarantees in Fair Division, under Informational Parsimony</i>
10:30 – 11:00	Coffee break
11:00 – 12:40	Session 4 – Chair: Vittorio Bilò Maria Kyropoulou, Carmine Ventre and Xiaomeng Zhang <i>Mechanism Design for Constrained Heterogeneous Facility Location</i> Reshef Meir <i>Facility Location for Three Agents on a Circle</i> Vijay Menon and Kate Larson <i>Mechanism Design for Locating a Facility under Partial Information</i> Jackie Baek and Will Ma <i>Prophet Inequalities on the Intersection of a Matroid and a Graph</i>
12:40 – 14:30	Lunch
14:30 – 15:45	Session 5 – Chair: C. Gregory Plaxton Best paper: Vishnu V. Narayan, Enguerrand Prebet and Adrian Vetta <i>The Declining Price Anomaly is not Universal in Multi-Buyer Sequential Auctions (but almost is)</i> Vishnu V. Narayan, Gautam Rayaprolu and Adrian Vetta <i>Risk-Free Bidding in Complement-Free Combinatorial Auctions</i> Siqi Liu, J. Benjamin Miller and Alexandros Psomas <i>Risk Robust Mechanism Design for a Prospect Theoretic Buyer</i>
15:45 – 16:15	Coffee break
16:15 – 17:55	Session 6 – Chair: Carmine Ventre Ioannis Caragiannis, George Christodoulou and Nicos Protopapas <i>Impartial Selection with Additive Approximation Guarantees</i> Aris Filos-Ratsikas, Evi Micha and Alexandros Voudouris <i>The Distortion of Distributed Voting</i> Bruno Escoffier, Hugo Gilbert and Adèle Pass-Lanneau <i>The Convergence of Iterative Delegations in Liquid Democracy in a Social Network</i> Zoi Terzopoulou and Ulle Endriss <i>Optimal Truth-tracking Rules for the Aggregation of Incomplete Judgments</i>
20:30	Dinner at Athiri (Plataion 15, Keramikos)

Thursday, October 3	
9:30 – 10:30	Invited Talk 3 – Chair: Evangelos Markakis Shahar Dobzinski <i>From Cognitive Biases to the Communication Complexity of Local Search</i>
10:30 – 11:00	Coffee break
11:00 – 12:40	Session 4 – Chair: Reshef Meir Diodato Ferraioli and Carmine Ventre <i>Obvious Strategy proofness, Bounded Rationality and Approximation: The Case of Machine Scheduling</i> Markos Epitropou and Rakesh Vohra <i>Optimal On-line Allocation Rules with Verification</i> Simina Branzei, Claudio Orlandi and Guang Yang <i>Sharing Information with Competitors</i> Seunghee Han, Matvey Soloviev and Yuwen Wang <i>The Impact of Tribalism on Social Welfare</i>
12:40 – 12:50	Concluding remarks
12:50 – 14:30	Lunch
	End of SAGT 2019

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 departs from Exits 4 and 5 at the Arrival Level. The trip 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**. Airport lines run 24 hours a day, 7 days a week. One-way ticket costs €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) takes around 40 minutes. One-way ticket costs €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. Further information can be found in the following website <https://www.athensairporttaxi247.com/index.php?language=en>

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. Information about routes is available at <http://telematics.oasa.gr/en>.

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 about the Athens Tram and Metro, including timetables, can be found at http://www.stasy.gr/index.php?id=33&no_cache=1&L=1.

You can use the same tickets for buses, Metro and trams (excluding tickets from/to the airport). The following ticket types are available:

- Single 90-minute ticket, valid for 90 minutes after their validation for transportation. It costs €1.40.
- Tourist ticket, valid for one round trip from/to Athens International airport by Metro or Express Bus and unlimited travel on other routes for 3 days. It costs €22.
- 24-hour and 5-day tickets, valid for 24 and 5×24 hours, respectively, after first validation. The 24-hour ticket costs €4.5 and the 5-day ticket costs €9.

Detailed information about ticket types and prices in Athens public transportation can be found at <https://www.athenacard.gr/komistra.dev>. You can buy tickets from:

1. Automatic ticket machines at all Metro, Tram and Suburban Railway stations.
2. Ticket offices at many Metro, Tram and Suburban railway stations.
3. Blue/yellow ticket booths next to many central bus stations.

An exception is the tourist 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.

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. Information about the taxi fares can be found at <https://tinyurl.com/14vvabj>.

From City Center to the Conference Venue

The NTUA Campus can be accessed through three gates:

- (i) Katehaki Gate, which is always open and is mostly used for vehicles (pedestrians should avoid it – no zebra crossings!).
- (ii) Kokkinopoulou Gate, which is open to vehicles and pedestrians on working days, during the day.
- (iii) Zografou Gate, which is mainly a pedestrian gate (it is open to vehicles from 7:00 to 9:00 and 14:00 to 16:00).

The talks will take place at the ground level of NTUA's Central Library (one level down the library's main entrance). The Central Library is easy to spot, as it is the tallest building in the campus. The Welcome Reception will take place at the ground level of the Electrical and Computer Engineering Building, located across the Central Library on a pedestrian alley. Please try to follow signs to SAGT 2019 as you walk through the campus towards the conference venue. The easiest way to get to the conference venue is:

1. Arrive at Metro station "Katehaki" through line 3 (blue line).
2. Walk across the road to the bus stop and take the bus line **242** that goes to NTUA Campus (travel time approximately 7 minutes).
3. Get off at "Thyrorreio" stop, which is the first stop inside the Campus.
4. Walk for about 3 minutes to the ground level of the Central Library (the last hop is to take the stairs down to the ground level, as you walk on the pedestrian alley towards the South).

Alternatively, from Katehaki bus stop, you may take line **140**, get off at "Polytechnioupoli" stop, get inside the Campus (through Kokkinopoulou Gate) and walk for about 7 minutes towards the Central Library.

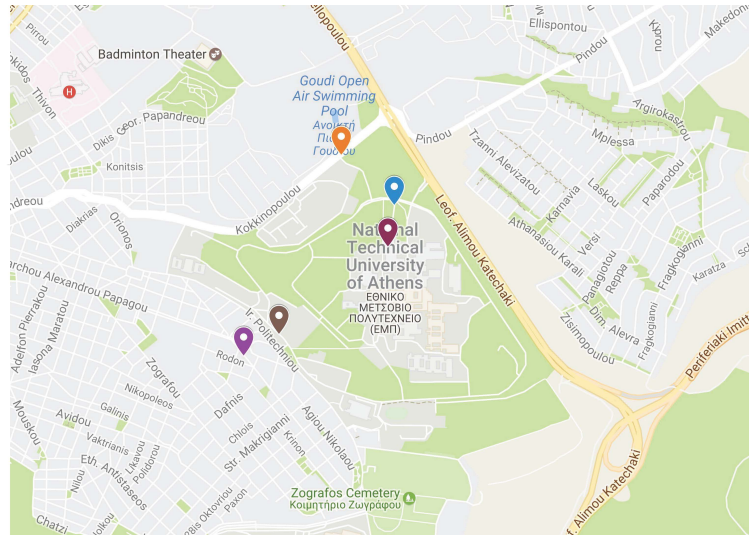
From the Conference Venue to City Center

You may take either the bus line **242** from "Pyli Kokkinopoulou" bus stop (inside the campus) or lines **242** or **140** from "Polytechnioupoli" bus stop (just outside Kokkinopoulou Gate) to "Katehaki" Metro station.

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.

The locations of the three gates of the campus and the main bus stops are spotted at the following map:

- 8th Zografou
- Zografou Gate
- Kokkinopoulou Gate
- Thyroveio
- SAGT 2019

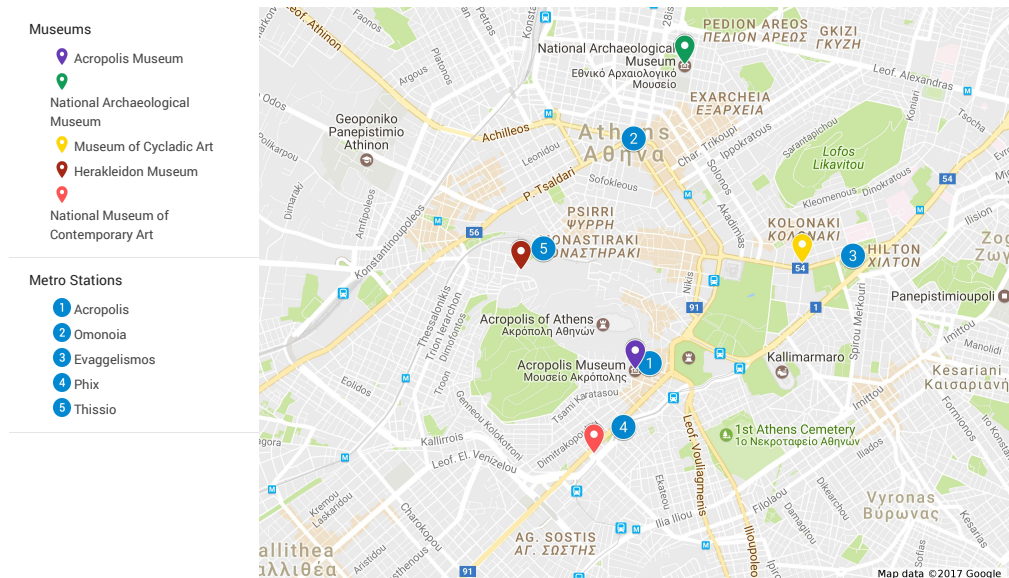


Museums

The following is a list of interesting museums in Athens.

- Acropolis Museum, 15 Dionysiou Areopagitou Street, <http://www.theacropolismuseum.gr/en>
- National Archaeological Museum, 44 Patission Street, <http://www.namuseum.gr/en>
- Museum of Cycladic Art, 4 Neophytou Douka Street, <https://www.cycladic.gr/en>
- Herakleidon Museum, 37 Ap. Pavlou Street, <http://herakleidon-art.gr/en-us>

Museums and the nearest metro stations



Restaurants in Athens

Restaurant	Address	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
*Yandes (Modern Greek)	Valtetsiou 44, Exarhia	210 3301369
Oxo Nou (Cretan Cuisine)	Emm. Benaki 63, Exarhia	210 3801778
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
*Aglío, 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
Tirbouson (Modern Greek)	Konstantinoupoleos 104, Kerameikos	210 3410107
Anadolou (Turkish Cuisine)	Bousgou 2, Pedion tou Areos Park, Gyzi	210 6431990
*Taverna Oikonomou (Greek Cuisine)	Troon 1, Ano Petralona	210 3467555
O Santorinios (Greek Cuisine)	Dorieon 8, Ano Petralona	210 3451629

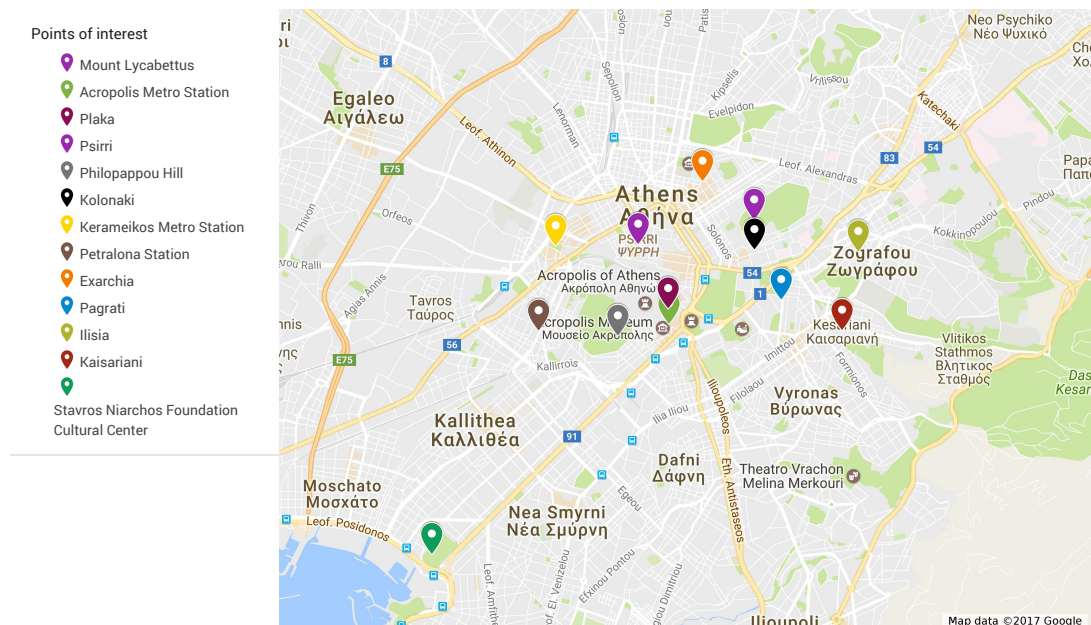
Places marked with a * in the above list appear in the list of strictly non-smoking places at <http://forum.nosmoke.gr/entertainment/list>.

You can also find some smoke-free cafés, bars and restaurants at <http://www.greece-is.com/athenian-hangouts-without-smoke/>.

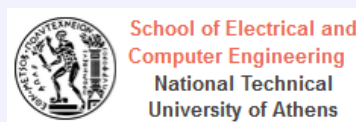
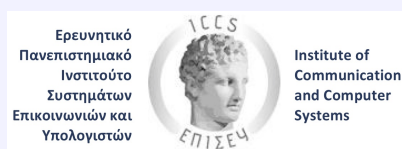
Exploring Athens

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 cafes 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 picturesque island with an impressive ancient temple dominating on a mountain top.
7. You may find further useful information at <http://www.thisisathens.org>. Check also <http://www.spottedbylocals.com/athens/>.

Exploring Athens



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