



SWERC 2017

Southwestern European Regional Contest

<https://swerc.eu/>

Paris, November 24-26, 2017

Participant Information



Télécom ParisTech and École normale supérieure are happy to welcome you in Paris for the 2017 edition of the ACM-ICPC Southwestern European Regional Contest.

Sponsors

We would like to acknowledge the generous support of the following sponsors:



1 Schedule

Friday, November 24th

17:00-19:30 (*Entrance Hall*) TEAM REGISTRATION

Saturday, November 25th

08:30-09:00 (*Entrance Hall*) LAST-MINUTE REGISTRATION

09:00-09:30 (*Auditorium*) OPENING CEREMONY

Yves Poilane, Director of Télécom ParisTech; Božena Mannová, European Regional Director

09:30-10:15 (*Auditorium*) TALK by Palantir:

Building secure search at Palantir

10:15-10:45 (*Entrance Hall*) COFFEE BREAK

Open discussions with the sponsors

10:45-11:30 (*Auditorium*) TALK by Criteo Labs:

Load balancing and unnecessary optimization at Criteo,
with Raphael Vandon (Senior software engineer at Criteo Labs)

11:30-12:15 (*Auditorium*) TALK by Société Générale

DevOps, microservices, security, cloud... : Docker, a catalyst for IT challenges?,
with Adrien Blind (Thought Leader at Société Générale & Docker Captain)

12:15-12:45 (*Auditorium*) INTRODUCTION TO PRACTICE SESSION

12:45-14:00 (*Entrance Hall*) LUNCH COCKTAIL

Open discussions with the sponsors

14:00-16:00 (*Computer Labs*) PRACTICE SESSION

Coaches may use rooms B310 and B312, and access the computer labs from 15:00 onwards.

16:00-16:30 (*Entrance Hall*) COFFEE BREAK

Open discussions with the sponsors

16:30-17:30 (*Auditorium*) QUESTIONS AND ANSWERS

20:00-23:00 (*La Maison des Polytechniciens*) BANQUET

Sunday, November 26th

08:45-09:10 (*Auditorium*) LAST MINUTE INFORMATION

09:10-09:30 (*Computer Labs*) ENTRANCE TO LABS

09:30-14:30 (*Computer Labs*) CONTEST

Snacks available during the contest. Coaches may use rooms B310 and B312 and access the scoreboard and a public version of the contest. From 11:00 to 12:00, meeting in B310 between coaches and organizers to discuss the future of SWERC.

14:30-15:30 (*Entrance Hall*) LUNCH COCKTAIL

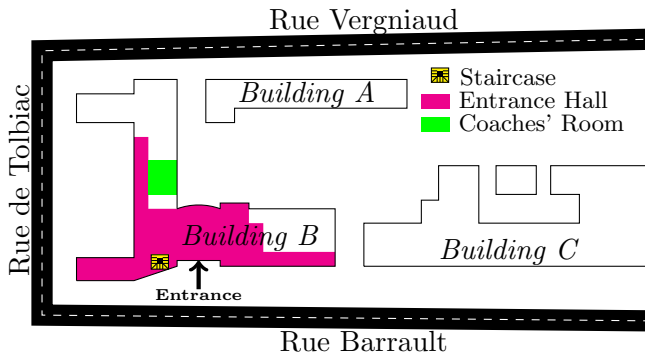
15:30-16:00 (*Auditorium*) PROBLEM ANALYSIS


16:00-17:30 (*Auditorium*) AWARDS CEREMONY

2 Venues

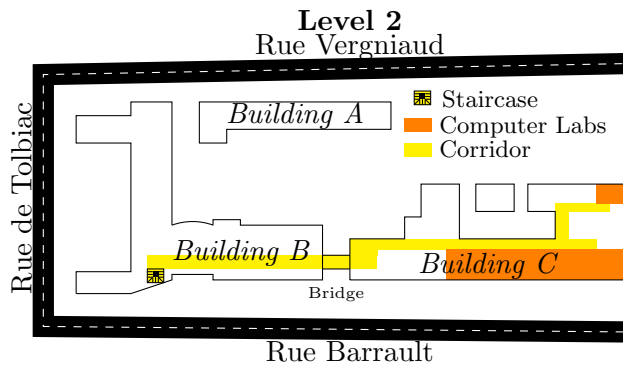
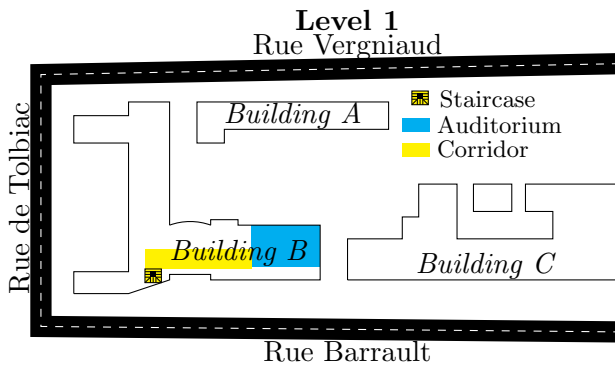
Main venue: Except for the banquet on Saturday night, the whole event is held at:

Télécom ParisTech, 46 rue Barrault, Paris



When entering by the **Entrance** on rue Barrault, you arrive at the Entrance Hall (in **magenta**), where coffee breaks and lunches will be held. You can also use the Staircase  to access **Level 1** (with the auditorium) and **Level 2** (with the computer labs). Coaches can also access the Coaches' Room (in **green**) where they can stay during the contest.

Here is a map of **Level 1** and **Level 2** of the building that you can reach with the Staircase :



Bars or restaurants in the neighborhood of Télécom ParisTech: check the rue de la Butte aux Cailles where you will meet a young, trendy and festive Parisian crowd. For a restaurant district not too far, check the *Latin Quarter* (e.g., rue Mouffetard, rue de Saint-Séverin, etc.), which is 30 minutes away by foot. For traditional *crêpes*, check rue du Montparnasse and rue de la Gaîté. For Asian food, check avenue de Choisy.

Banquet venue: The banquet is held at *La Maison des Polytechniciens*, 12, rue de Poitiers.

You can reach the banquet venue from Télécom ParisTech by subway in about 40 minutes, using one ticket t+: walk to Corvisart, take Métro line 6 towards Charles de Gaulle-Étoile, change at Pasteur (without exiting the subway system, so keeping the same ticket) to take Métro line 12 towards Front populaire, get off at Solferino and walk to the venue. You can also use RER Station *Musée d'Orsay*. For detailed itineraries, check <https://www.vianavigo.com/en/>.



3 Scenic Route to the Banquet Venue

The most pleasant option to reach the banquet venue from Télécom ParisTech (if the weather permits) is to do the trip on foot, which should take about one hour and a half (count two hours if you intend to walk leisurely and perhaps shop on the way). You can see some Parisian highlights while walking.

From Télécom ParisTech (**A**), go north on rue Barrault, take the first left on rue Daviel, then immediately right on rue Vergniaud. Cross the boulevard Auguste Blanqui and continue on rue Vulpian, until you reach rue Pascal (**1**). Go straight ahead on rue Pascal until you reach *Église Saint-Médard* (**2**), which is at the bottom of one of the most picturesque streets of Paris, *rue Mouffetard*, with its restaurants and shops. You now enter the *Latin Quarter* of Paris (5th district), famous for its student life. Follow rue Mouffetard up to the charming *place de la Contrescarpe* (**3**) and turn left on rue Blainville and continue on rue de l'Estrapade (**4**). That street goes around *Lycée Henri-IV*, one of the most prestigious French high schools. Turn right on rue d'Ulm and you will see the *Panthéon* (**5**), a former church transformed into a mausoleum during the French revolution, and where rotation of the Earth was proved using Foucault's famous pendulum experiment. Go west on *rue Soufflot*, where you should be able to catch a glimpse of the *Eiffel Tower* in the distance. You will cross *rue Saint-Jacques*, one of the original thoroughfares of Paris from the Roman times, with many monuments visible in the distance to your right. Turn right just after, on rue de la Sorbonne (**6**) which goes along the historical *Sorbonne* university of Paris. Follow it until you reach one of the oldest buildings of Paris, the *Hôtel de Cluny* (**7**), which now hosts a museum of the Middle Ages. Turn left on the rue des Écoles and cross the boulevard Saint-Michel and onwards on the rue de l'École de médecine, the prestigious medical university of Paris. You are now in the posh 6th district of Paris, full of history and shopping opportunities. Follow rue de l'École de médecine until the *Odéon* Metro station, a lively square with cinemas and shops. Turn left on the boulevard Saint-Germain (**8**), until you reach the Abbey of *Saint-Germain-des-Prés* (**9**), located in a district frequented by artists and philosophers (Sartre, Beauvoir, Camus. . .) in the middle of the 20th century. Turn right on rue Bonaparte, all the way to the river Seine (**10**). In front of you, across the river, you can see the famous *Louvre* museum, a former royal palace. To your right while looking

at the river, beyond the famous pedestrian *Ponts des Arts* leading to the *Institut de France* (which hosts the French Academy), the island of the *Cité* with its many monuments. Turn left and walk along the river. After the Louvre, the opposite bank of the river hosts the garden of the *Tuileries*. To your left, you will soon encounter the *Orsay museum*, only second to the Louvre in Paris as an art museum, and a former train station. Turn left after the museum (**11**) on the rue de Solférino, on the quiet and posh 7th district, and then immediately left on the rue de Lille, and right on the rue de Poitiers. You have reached the banquet location (**B**).



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4 Contest

Regulations. Please refer to <https://swerc.eu/pages/regulations.html> for details about applicable regulations. Here is a summary of the most important rules:

- Please wear your **t-shirt** and **badge** at all times during the contest.
- **No electronic devices** are permitted in the contest area, including keyboards, phones, laptops, calculators. Team members **must** leave all electronic devices with their coach prior to entering the contest area. Teams found with electronic devices will be disqualified.
- **No communication** is permitted between contestants during the contest, except between members of the same team when seated at their desk. Any attempt to communicate across teams will lead to disqualification.
- **No printed materials** or paper are permitted in the contest area, except your Team Reference Document as installed by us, and the draft paper, problem statements, and printouts that we will provide.
- Any activity that jeopardizes the contest may lead to disqualification. This includes attempts to access the Internet, excessive printing, abuse of system resources, etc.
- Please bring your own pens to the contest area.
- All questions about problems should be asked via the DOMjudge contest control system. Any problem with the computing environment should be reported to the volunteers onsite.

Environment. Please refer to <https://swerc.eu/pages/environment.html> for details about the computing environment: hardware, keyboards, operating systems, available packages (including text editors, software development tools, and IDEs), versions of programming languages and compilers, compilation flags, judging system, etc.

Wifi. Please use the eduroam network with your own identifiers if possible (check details with your home institution or on <https://www.eduroam.org/>). If you do not have eduroam identifiers, you can use the following:

ESSID: eduroam login: telecom711242-9924 password: MPT3NdSX
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By using our Wifi network, you agree to the terms and conditions of our IT charter, which is available (in French) at: https://www.telecom-paristech.fr/fileadmin/documents/images/Enseignements/FI/Services_numeriques/CharteInformatique_TPT_fr_2012.pdf).

Code of conduct. We are dedicated to providing a harassment-free experience for everyone, regardless of gender, gender identity and expression, age, sexual orientation, disability, physical appearance, body size, race, ethnicity, or religion (or lack thereof). We do not tolerate harassment of SWERC participants in any form. Sexual language and imagery is not appropriate during SWERC, including talks, contests, and social events. Participants violating these rules may be expelled from SWERC without a refund at the discretion of the organizers.

If you are being harassed, notice that someone else is being harassed, or have any other concerns, please contact a SWERC organizer (they can be identified by their blue T-shirts and badges).

5 Organizing Team

The organizing committee is very grateful for the support it has received from the schools, the faculty, the staff, and the students who are helping. We would like to specially thank the following people.

Organizing committee (blue t-shirts):

- Director: Antoine Amarilli, Télécom ParisTech
- Chief judge: Pierre Senellart, École normale supérieure
- Vice-director: Bertrand Meyer, Télécom ParisTech.

Judges and problem setters (green t-shirts):

- Mehdi Bouaziz, Facebook
- Christoph Dürr, CNRS, LIP6
- Jean-Christophe Filliâtre, CNRS, LRI
- Thomas Huet, Google
- Ioana Ileana, Université Paris-Descartes
- Louis Jachiet, École normale supérieure
- Jacques-Henri Jourdan, CNRS, LRI
- Silviu Maniu, Université Paris-Sud
- Raphaël Marinier, Google
- Samuel Tardieu, Télécom ParisTech

Staff at Télécom ParisTech:

- Frédéric Boulanger, Responsable du Pôle logistique, Secrétariat général
- Dominique Célier, Directrice, Direction de la communication
- Cyrielle Flosi, Adjointe à la Directrice, Direction de la communication
- Dominique Gaillard, Responsable Division immobilier et logistique, Secrétariat général
- Patrice Le Gac, Pôle logistique, Secrétariat général
- Christophe Masson, Ingénieur Réseaux, Direction des systèmes d'information
- Ariel Vives, Ingénieur Systèmes, Direction des systèmes d'information
- and the whole teams of the Logistique and the Direction des systèmes d'information.

Volunteers (blue t-shirts): Vitaly Aksenov, Wael Barhoumi, Abir Ben Hadj Fredj, Louison Braun, Luc Chabassier, Guillaume Claret, Thibault Feneuil, Loïc Février, Josselin Giet, Stéphane Henriot, Georges-Axel Jaloyan, Marc Jeanmougin, Michael Kruse, Quentin Lobbé, Patricia Mirabile, Mikaël Monet, Robin Morisset, Auguste Olivry, Daria Pchelina, Thomas Pellissier-Tanon, Thibaut Perami, Lucas Pluinage, Guillaïn Potron, Laure Prétet, Yann Ramusat, Thomas Rebele, Martin Ruffel, Leello Tadesse, Edward Tombre, Luca Wehrstedt.

Photography and video: Association Comète, Télécom ParisTech.