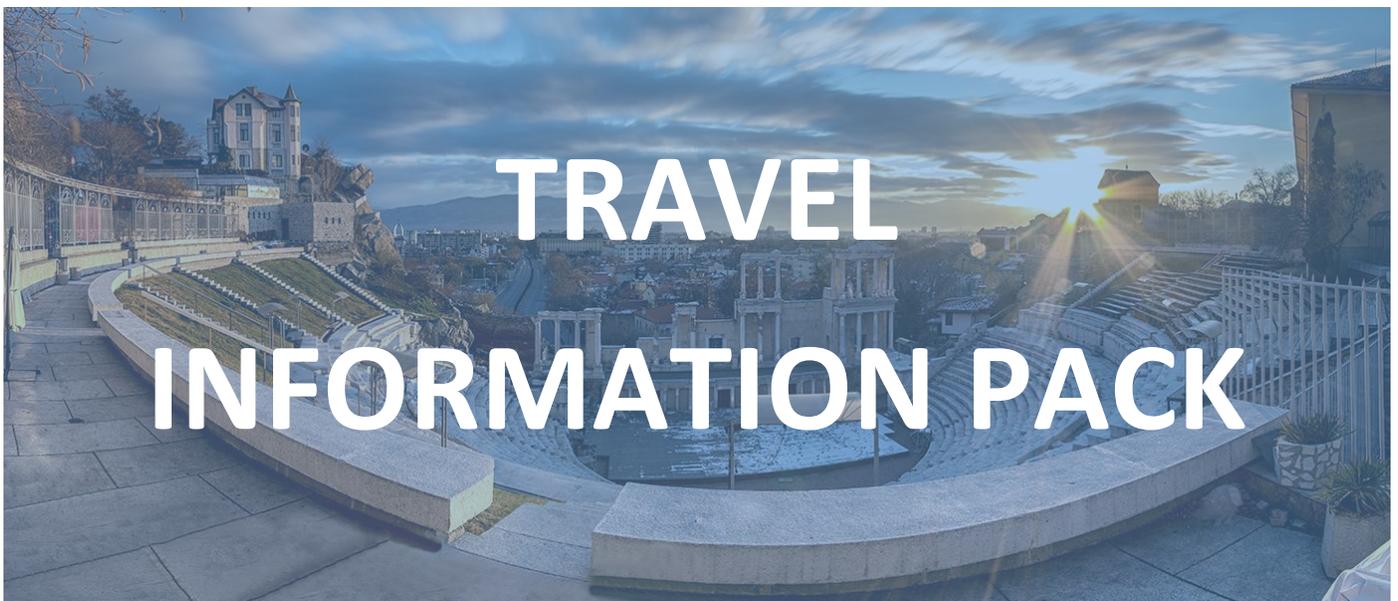


Fourth International Scientific Conference

DIGILIENCE 2022

Digital Transformation, Cybersecurity, and Resilience

September 28-30, 2022 | Plovdiv, Bulgaria



IMPORTANT DATES

- **16.06.2022** – Full text submissions.
- **31.07.2022** – Notification of acceptance
- **20.08.2022** – Submission of Final Version
- **28-30.09.2022** – Conference

ABOUT THE CONFERENCE

In today's interconnected world, industries, communication, critical infrastructure, and essential services are primarily digitally dependent, especially against the backdrop of the ongoing COVID-19 pandemic and the subsequent large-scale shift towards remote operations. Meanwhile, new systems are frequently deployed without sufficient security, data protection, or resilience concern. In their quest for competitive advantage, developers and consumers often overlook safety and security considerations, leaving malevolent actors plenty of possibilities to attack.

DIGILIENCE is an annual conference, organized since 2019, which aims to establish state-of-the-art and future demands in providing security and resilience of ICT-intensive processes, services, and systems. Of particular interest are studies that examine systems in their interdependence or place their operation in human or broader policy contexts, as well as evidence and data-based studies and presentations of the respective datasets.

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About the Conference Venue

DIGILIENCE 2022 will take place in the second-largest city in Bulgaria, Plovdiv. Standing on the banks of the Maritsa river, in the historical region of Thrace, Plovdiv is a beautiful city of rich history and contemporary culture. The exact venue of the conference is the [House of Science and Technique](#) at 1 “Gladston” Str., Plovdiv, Bulgaria.

About the House of Science and Technique



The non-profit association “Scientific and Technical Unions with the House of Science and Technique – Plovdiv manages the House of Science and Technique”. The association is a non-governmental, non-political organization in which scientific and technical unions are associated, uniting specialists with higher or secondary education from different fields of science and technology. The association is the successor and continuator of the Plovdiv branch of the Bulgarian Engineering and Architectural Society, which celebrated its centenary this year.

Among the main objectives of the association are to support the efforts of specialists in various fields of science and technology to create conditions for their creative – professional development and improvement and to assist in raising their social influence and prestige, in particular – by organizing and holding various scientific and technical events: conferences, symposia, seminars, etc.

The House of Science and Technique is located in Plovdiv, at 1 “Gladstone” Str. in the heart of Plovdiv near the Tsar-Simeon Garden – one of the favourite places for a stroll for Plovdiv citizens and guests.

Open in [Google Maps](#).

About Plovdiv

Plovdiv is Bulgaria’s second-largest city, located on the banks of the Maritsa River in the ancient region of Thrace. The town effortlessly combines energizing nightlife with millennia-old ruins. Plovdiv, like Rome, is built on seven hills, but as Europe’s oldest continually inhabited city, it is much older.



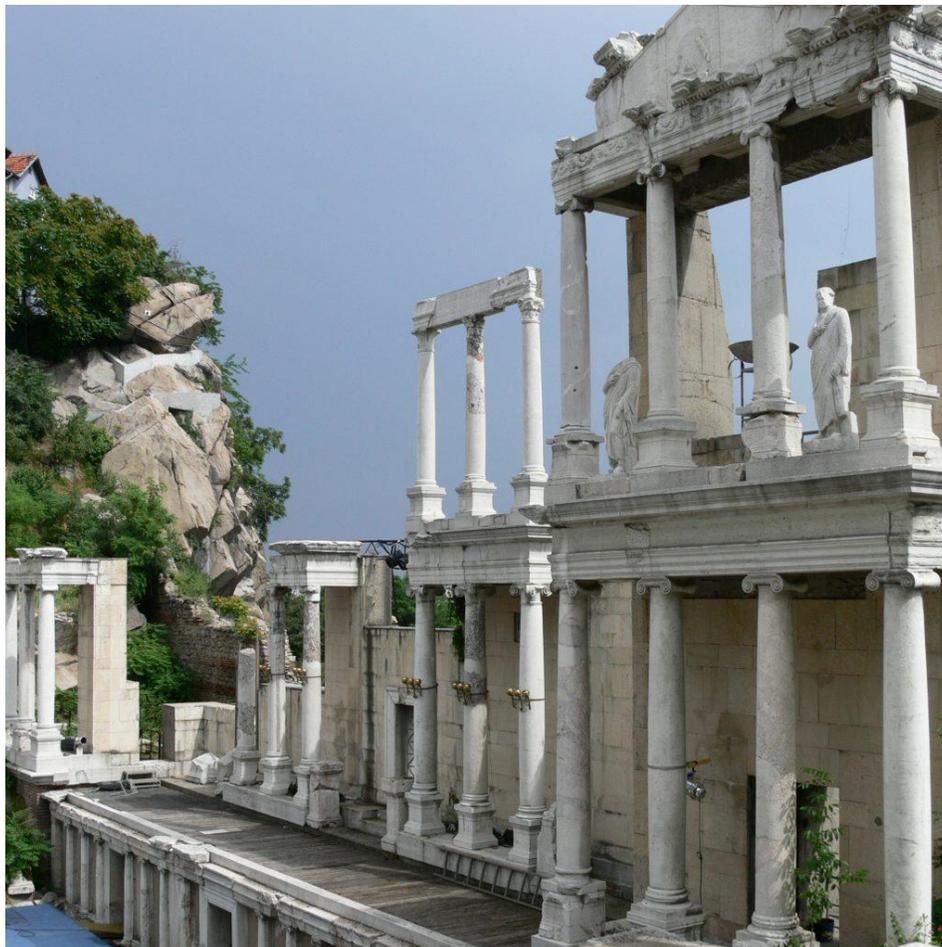
Plovdiv is one of Europe's oldest cities, having a history going back to roughly 6,000 B.C. This old city has Roman remains and a beautiful Old Town with timber-framed homes and cobblestone streets.

Plovdiv is now a prosperous city with a relaxed environment and many architectural structures. It is most known for its picturesque old town, filled with colourful and creaking 19th-century homes that have been converted into house museums, galleries, and guesthouses.

Plovdiv's Old Town is comprised of cobblestone lanes lined with 19th-century residences, most of which are now museums. You can see beautiful Renaissance-era character residences

with their handcrafted wooden furnishings and framed windows as you travel through this historical portion of the city.

However, cobblestoned alleyways and National Revival-era nostalgia are only a small portion of the narrative. Plovdiv, Bulgaria's cosmopolitan second city, has always been close to Sofia, and a term as European Capital of Culture 2019 is certain to give Plovdiv the upper hand.



Accommodation in Plovdiv

Ramada Plovdiv Trimontium

- Address: 2 “Kapitan Raicho” Str.
- Price range: 110-140 EUR (a **50% discount for Digilience 2022 guests rendering the price range 55-70 EUR**). Contact Maria Dimitrova (maria.dimitrova@bgprincess.com) and Natasha Stoyanova in CC (natasha.stoyanova@bgprincess.com) to book your room at preferential prices, stating that you are a guest of the Digilience 2022 conference. Preferential prices also include:
 - Buffet breakfast;
 - Free use of the indoor swimming pool;
 - Free use of sauna and fitness;
 - Free use of wireless internet;
 - Tourist tax and VAT;
 -

Plovdiv City Center Hotel

- Address: 14 “Knyaz Alexander I” Str.
- Price range: 50-55 EUR (a 10% discount for Digilience 2022 guests rendering the price range 45-50 EUR). Contact reservations-citycenterhotel@abv.bg to book your room at preferential prices, stating that you are a guest of the Digilience 2022 conference.

DoubleTree by Hilton Plovdiv Center

- Address: 1 “Saint Petka” Sqr.
- Price range: 70-100 EUR

Hotel Leipzig

- Address: 70 “Russki” Blvd.
- Price range: 85-140 EUR

Getting around in Plovdiv

Public transportation

Buses are pretty much the only available public transport in the city. Compared to Sofia Plovdiv, a smaller city, it does not have an internal tram or subway network. Nevertheless, the buses in town are relatively regular, especially on workdays, and they can get you to almost anywhere.

Usually, the first buses in the morning start travelling as early as 5:30-6:00 AM and the last ones in the evening run until 10:00-11:00 PM. The ticket price is 1 lev (€0,50), and you buy it on the bus.

For a complete and thorough list of Plovdiv’s buses and their routes and timetables (in English), click [here](#).

Plovdiv’s two main bus stations and the Central Railway Station are all located within a hundred meters of each other in the South-Central part of town. Keep in mind that they are actually ~20 minutes away from the Main Street by foot, so sometimes the bus ride might take roughly the same time a walk would.

Still, if you want to take a bus, you must know that three main lines travel between the stations and the centre of town – 7, 20 and 26. Your best bet in getting around by public transport in Plovdiv is Google Maps and the Moovit App.

Taxis

If you are in a rush and don't feel like waiting for a bus, or if the bus routes are simply too confusing, there is the apparent alternative transport – taxis.

Taxi fares here vary between 0,75-0,90 lev/km, plus a starting fare, usually around 0,90 leva. This means that even if you ride from the centre to the suburban neighbourhoods, the price won't exceed 4-5 leva (€2-2,50), considering that Plovdiv is a moderately sized city.

Within the central area of town (from the main boulevard Tsar Boris III to the bus/train station, for instance), it's possible to get from A to B for as low as 3 leva (€1,50) under normal traffic circumstances. In short – in Plovdiv, taxis are a fast and relatively cheap alternative to public transport.

Possibly, **the taxi driver will not speak English**, so it is better to have your destination address written down somewhere.

You can safely order a taxi in Plovdiv by phone. We recommend the following companies:

- [Eko Taxi](#). 00359 32 6155
- [Taxi 1](#). 00359 32 6142

Last but not least, you can also take a taxi from the Plovdiv airport to the city. This is a convenient option because there is no regular bus line and the distance is around 10 km.

A regular taxi will get you from Plovdiv airport to the city for 15-20 leva (€8-10), depending on the traffic. Again, make sure to check the price list before you get in.

What to do in Plovdiv

Sofia

Accommodation in Sofia

[Hilton Sofia Hotel](#)

- Address: 1 Bulgaria Blvd. (near European Union metro station)
- Price range: 100-200 EUR

[Hotel Rila Sofia](#)

- Address: 6 Trsar Kaloyan str. (near Serdika metro station)
- Price range: 50-100 EUR

[Hotel Downtown](#)

- Address: 27 V. Levski Blvd.
- Price range: 75-110 EUR (near Sofia University metro station)

Getting around in Sofia

From Sofia Airport to the City Center

How to get from the airport to the city centre?

By metro

Sofia Metro Line 1 connects Sofia Airport to the city Centre. The journey time is approximately 20 minutes.

Changing trains from Line 1 to Line 2 at Serdika Metro Station, passengers can travel from the airport to Sofia Central Bus and Railway Stations within less than half an hour. The metro trains on the route to the airport operate from 5:30 AM until 23:45 on weekdays and weekends/holidays.

The metro station at Sofia Airport is located in the eastern part of Terminal 2. You can reach it by following the floor markings in blue in the public area of Terminal 2. Terminal 2 serves most of the airlines. Low-cost airlines, such as Wizz Air, are operated by Terminal 1.

Sofia Airport provides free-of-charge transportation between Terminal 1 and Terminal 2 every 30 minutes between 07:00 and 19:00 local time, with no intermediate stops on the route. The first bus from Terminal 1 is at 7.00, and from Terminal 2 at 7.15. The last bus from Terminal 2 is at 19:15. The shuttle bus stops, located in front of the terminal buildings, are designated by signage and pavement markings.

By public transport

Bus routes 84 and 184 connect the city centre (Gen. Gurko Str.) with Sofia Airport **Terminal 2 and Terminal 1**. Both bus routes operate under an all-day timetable. The journey time from the first to the final stops of 84 and 184 bus routes is approximately 45 minutes on weekdays and 35 minutes on weekends/holidays.

If you want to use public bus transport from Terminal 2, the floor marking in red in the general area will show you the way to the bus stops.

Tickets and luggage

At Sofia Airport, you can buy tickets for public transport at the kiosks of Urban Mobility Centre or at *Razprostranenie na Pechata (R.P.)* in the public areas of Terminal 2, as well as from a ticket vending machine installed at Terminal 1 Arrivals general area. The device works with Bulgarian levs and coins, and the issued tickets are valid for bus lines 84 and 184 and the other public transport lines but NOT for the metro.

Ticket machines for metro tickets are located at Sofia Airport Metro Station. The ticket machines accept Bulgarian banknotes and coins, and one also accepts credit cards. You can also buy your ticket at the cash desk.

Passengers with regular transport documents can take up to 2 pieces of luggage on public transport vehicles free of charge. Any additional pieces of luggage are charged with a separate transport document.

[From the City Center to the Central Bus Station or the Central Railway Station](#)

The Sofia Central Railway Station is Sofia's main passenger railway station, the capital of Bulgaria, and the largest railway station in the country. It is located 1 km north of the city centre after Lavov most, on Marie Louise Boulevard in the immediate proximity of the Central Bus Station Sofia.

There are actually two bus stations – The Central Bus Station, where you can find busses that go to domestic routes within the country, including Plovdiv. The international bus station is smaller and is in front of Sofia's Central Railway Station. The central Bus station is located 200 meters away.

The Central Bus Station or the Central Railway Station are easily accessible from the city centre by metro line 2. Both stations are 2 stops from Serdika II metro station via metro line 2.

[Public Transportation in Sofia](#)

The public transport in Sofia consists of:

- Ground Transport – buses, trams (tramways), and trolleybuses
- Underground – Metro.

Contactless payment possible in all public means of transport. Passengers can pay a single-trip ticket (1.60BGN/0.82EUR) by simply tapping their contactless credit or debit card (or a digital card uploaded to their NFC mobile wallet) on an on-board/metro gate reader.

A daily cap limit for payment with credit or debit card. Passengers can make as many journeys as they like over the day and all fares will add up to 4 BGN (approx. 2 EUR).

For more information about routes, timetables, and stops of the lines of the ground public transport, please click [here](#).

Metro

Sofia has four metro lines – M1, M2, M3, and M4. You can see the numbers of the lines on the front of the train. M1 line runs from Slivnitsa metro station to Business Park metro station. M2 line runs from Vitosha metro station to Obelya metro station. M3 runs from Hadzhi Dimitar metro station to Gorna Banya metro station. M4 runs from Obelya metro station to Sofia Airport.

M1, M2 and M4 intersect at Serdika metro station. M1, M3, and M4 intersect at Sofia University/Orlov Most metro station. M2 and M3 intersect at the National Palace of Culture metro station. M1 and M4 intersect at Mladost 1 metro station.

You can find a map of the metro lines [here](#).

Sofia Metro connects Sofia Airport Terminal 2 with the centre of the city – Serdika Metro Station. The trip takes about 20 minutes. Passengers can change metro lines at Serdika Metro Station and travel to Sofia Central Bus Station and Sofia Central Railway Station. Sofia Metro also connects Sofia Airport Terminal 2 with Sofia South Bus Station.

For information about the schedules of the metro trains, please click [here](#).

Transportation documents

A single-trip travel card for the metro costs 1,60 BGN. It can be purchased from vending machines or at the metro cash desks near the metro entrances. The valuator must validate the metro's single-trip travel card near the metro stations.

Each travel card can be used up to 30 minutes after being purchased. You should keep your travel card till the end of the trip. The following passes can also be bought at the metro cash desks – a daily pass for all lines of the public transport system – 4 BGN (for daily transport services), and an electronic card issued for ten single metro trips – BGN 12.

For more information, click [here](#).

Taxis in Sofia

The taxi services in Sofia are cheap and reliable. However, there are some **fraudulent drivers around**. For comfort and safety, we recommend the services of [Yellow](#) (they also have a mobile app, available in [Google Play](#) and [App Store](#)) and [OK Supertrans AD](#). You can request their service at the offices of OK Supertrans in the Arrivals of Terminal 1 and Terminal 2, and the floor markings in yellow will lead you to the taxi stand area.

Possibly, **the taxi driver will not speak English**, so it is better to have your destination address written down somewhere.

You can safely order a taxi via the **mobile app [TaxiMe](#)**, available for Sofia only, or with the [Yellow](#) app.

When at the airport, we recommend that you **DO NOT use taxi services offered outside the office of the taxi operator or in front of the terminal to avoid the risk of fraud**.

There is a small percentage of scam taxi drivers, but if you check the prices before you enter the car and avoid the usual lies, you won't be overcharged.

Beware of the following Taxi scam. Many “expensive” taxis use names and logos that look like the logo and the name of OK SuperTrans. Names like OK SuperChance, OK SofiaTrans, OK ExtraTrans, OK VelirSim, CK SuperTrans, CK Something, etc. They count on the fact that the customers know the brand and its prices, and they won’t take a look at the price list. Always check the prices before you enter the car.



1 Taxi Scams

Make sure to abide by the following rules to avoid scams.

- Do not trust people in the waiting hall of the airport asking you if you need a taxi;
- Do not enter into a car not marked as a taxi (the yellow colour is not enough);
- Always check the prices listed on the windows and the front windshield;
- Make sure the taxi meter is turned on;
- Do not believe that there is a flat-rate fee;

What to Do in Sofia

Joining **free tours** is an excellent way to get to know Sofia if you have just a few free hours. These projects usually are donation-based. That means you are entirely free to choose if you want to leave a tip/donation or not. We recommend the following tours:

- **Free Sofia Tour:** <https://freesofiatour.com/>

Free Sofia Tour is a free English language, approximately 2 hours sightseeing walking tour of Bulgaria’s capital, organized by a non-profit organization. They expect its guests three times a day every day. They go around more than 20 city centre landmarks and offer a Spanish language tour 5 days a week. No reservations are required.

- **Balkan Bites – Free Food Tour:** www.balkanbites.bg

Balkan Bites provides travellers in Sofia with the first free daily food tour in Europe. They take you on a 2-hour walking tour of some of the more exciting and trendy family-owned restaurants that Sofia has to offer and enjoy some traditional Bulgarian cuisine while hearing about some of the history and customs that helped make them become staple foods in Bulgaria. Although reservations are not needed, they guarantee you a tour spot.

- **Free Sofia Bike Tour** (from April to November): www.sofiagreentour.com

You can also explore Sofia on a bike. The Bulgarian capital is becoming more and more bike-friendly so it's an excellent way to spend your day in the city. The tour is available from April to November and is organized twice daily. The duration of the experience is approximately 3 hours. You need to pay a bike rent fee of 10 BGN (5 EUR), which also includes insurance.

Useful General Information

Currency

Although Bulgaria is part of the E.U., it is not part of the Eurozone (the group of countries that use the euro as their currency). The national currency is **Bulgarian Lev (BGN) or Leva (plural)**. One lev is made up of 100 'stotinki'.

- The following coins are available: 1, 2, 5, 10, 20, 50 stotinki and 1, 2 leva.
- The following notes are available: 2, 5, 10, 20, 50, 100 leva (BGN).

Transactions are always done in Leva (BGN), and **euros are not accepted**. Hotels, restaurants, taxi drivers, and shops only accept payments in Bulgarian Leva. The local currency is pegged to the EURO at a **fixed rate of 1 EUR = 1,95 BGN**.

Make sure you **always have some cash** as many restaurants, shops, taxis, etc., still don't accept card payments. **ATMs are widely accessible** around town, and you can get up to 400 BGN from one cash machine at a time.

Money can also be exchanged safely at exchange bureaus or most banks. We advise you to use banks first or a reputable exchange bureau, which must display exchange rates on large tables with the sign "No Commission". Airports and hotels also offer money exchange but usually tend to give less favourable rates. **NEVER change money with anyone who stops you in the street**, offering a better rate.

The cost of a beer is between 2 BGN and 4 BGN. The price of bread is between 1.50 BGN and 3 BGN. Water would cost you around 0.6 BGN to 2 BGN.

Tipping

Tipping in Bulgaria is expected for services at hotels, restaurants, taxis, and hairdressers, with an average figure of 10-15%.

10% tip is considered standard for taxi drivers, although the tip can be higher if the taxi driver helped carry bags or they were polite, informative, and friendly. For a short ride, a tip of BGN 1 is considered normal.

Tipping in restaurants is a standard practice too. Tips start from 10% on the restaurant bill. Avoid tipping with a bunch of coins, as it is considered an insult.

Electrical Outlets in Bulgaria, Voltage, and Frequency

For Bulgaria, there are two associated plug types: **C** (Europlug) and **F (Schuko)**. Plug type C is the plug that has two round pins, and plug type F is the plug that has two round pins with two earth clips on the side. Bulgaria operates on a 230V supply voltage and 50Hz.



2 Electrical outlet (sockets) and plugs used in Bulgaria

Time Zone

Bulgaria has two time zones, depending on Daylight Saving Time (DST). In 2020, within the period March 27 – October 30, the time zone will be EEST+1 hour (DST start) or UTC +3h.

Climate and Weather

Bulgaria has a temperate-continental climate with moderate features characteristic of Central Europe, with hot summers, long, cold winters, and distinct seasons. Daytime temperatures vary from 0-5°C in winter to 25-30°C in summer.

September is a warm and dry time in Bulgaria. The average maximum temperature in Bulgaria in September is 24°. The average maximum temperature is 29° in the previous month and 19° in the next month.

Useful Resources

Some valuable resources with information about Sofia with some ideas on what to do in your free time here:

- Lonely Planet on Sofia – [here](#)
- Trip Advisor on Sofia - [here](#)
- Urban Mobility Center - [here](#)
- Tourist info website for Sofia - [here](#)
- Visit Sofia, information about public transport - [here](#)
- Embassies and Consulates in Sofia - [here](#)
- Sofia Guide - [here](#)

Useful Numbers

- Country Code: 00359
- Sofia area code 003592
- Plovdiv area code 0035932

Emergency Telephone Line – 112