

# Workshop on Neuromorphic In-Material Computation

Theory, Physics, Chemistry, Materials, Electronics, Information Science

Oct. 28-30,

San Gimignano, Italy

Call for Papers

Deadline Oct. 11, 2024



## Research Society for Neuromorphic AI Hardware

Co-organized by ERC PoC — NEURO2D, JST CREST, JST ALCA-Next, JSPS Core-to-Core

Forefront Research Center, Osaka University

Research Center for Neuromorphic AI Hardware, Kyushu Institute of Technology



# Workshop on Neuromorphic In-Material Computation

– Theory, Physics, Chemistry, Materials, Electronics, Information Science –

Oct 28-30, 2024

Venue: Villasampaolo Resort & Spa, San Gimignano, Siena, Italy

<https://www.villasampaolo.com/>

## Keynote talks (tentative)

Akira Hirose (U Tokyo, Japan)

“Spin-wave reservoir computing”

Wilfred G. van der Wiel (U Twente, The Netherlands)

“Information processing in dopant network processing units”

Daniele Ielmini (Politecnico di Milano, Italy)

“Seizure detection via reservoir computing of charge-trap memory devices based on 2D semiconductors”

Seiya Kasai (Hokkaido U, Japan)

“Amoeba-inspired optimization computer and its application”

Luca Pellegrino (CNR-SPIN, Italy)

“Joule heating in suspended oxide thin film structures for multistate programming capabilities”

## Schedule

Oct 28th	12:00 Bus service from Florence to the Hotel
	14:00 Workshop start
	15:30 Coffee break
	18:00 Dinner
	20:00 Night session
Oct 29th	8:30 Session start
	10:00 Coffee break
	12:30 Bus service to Old Town
	19:00 Banquet in San Gimignano old town
	22:00 Bus service to the Hotel
Oct 30th	8:30 Session start
	10:00 Coffee break
	12:00 Closing
	12:30 Bus service to Florence

Workshop secretariat: Takuya Matsumoto (Osaka U, Japan)

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## Registration

Please fill following Goole Forms. You will receive an email including abstract format (1page) and payment method (credit card).

<https://forms.gle/mY1LR8Yz9bLt41at5>

Registration Fee	Full Fee	40,000 Yen (ca. 250 Euro)
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Banquet at San Gignano old town (Oct. 29)	12,000 Yen (ca. 75 Euro)
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(It is *less* expensive than the cost of a private dinner at the hotel.)

## Accommodation at the Venue

Group discounts will be applied to attendees (Two nights, 28-29 Oct).  
Please pay directly to the hotel on your own.

CHECK-IN 28 OCT 2024  
CHECK-OUT 30 OCT 2024  
2 nights

single use rooms at B&B quotation of € 120,00 per room per night  
double rooms or twin with 2 separate beds at B&B quotation of € 140,00 per room per night

Rooms are going to be available for check-in starting 02:00 p.m. and until 11:00 a.m. for check out

From March to end of October 2024, city tax from San Gimignano Municipality is 2,50 per person, per night not included in above rates.

**Workshop venue**  
**Villa Sanpaolo, San Gimignano**



**Banquet**  
**La Mandragola, San Gimignano historical place**





# Transportation

Workshop bus service is available from Florence airport and Station  
(Recommended)

Oct. 28 12:00 → 13:00

Florece international airport, station → Workshop Venue

Workshop will start 14:00. Lunch will **not** be provided. Please finish before boarding the bus or bring your own lunch box.

Oct. 30 12:30 → 13:30

Workshop Venue → Florece international airport, station

You can reach San Gimignano from Florence using public bus transportation

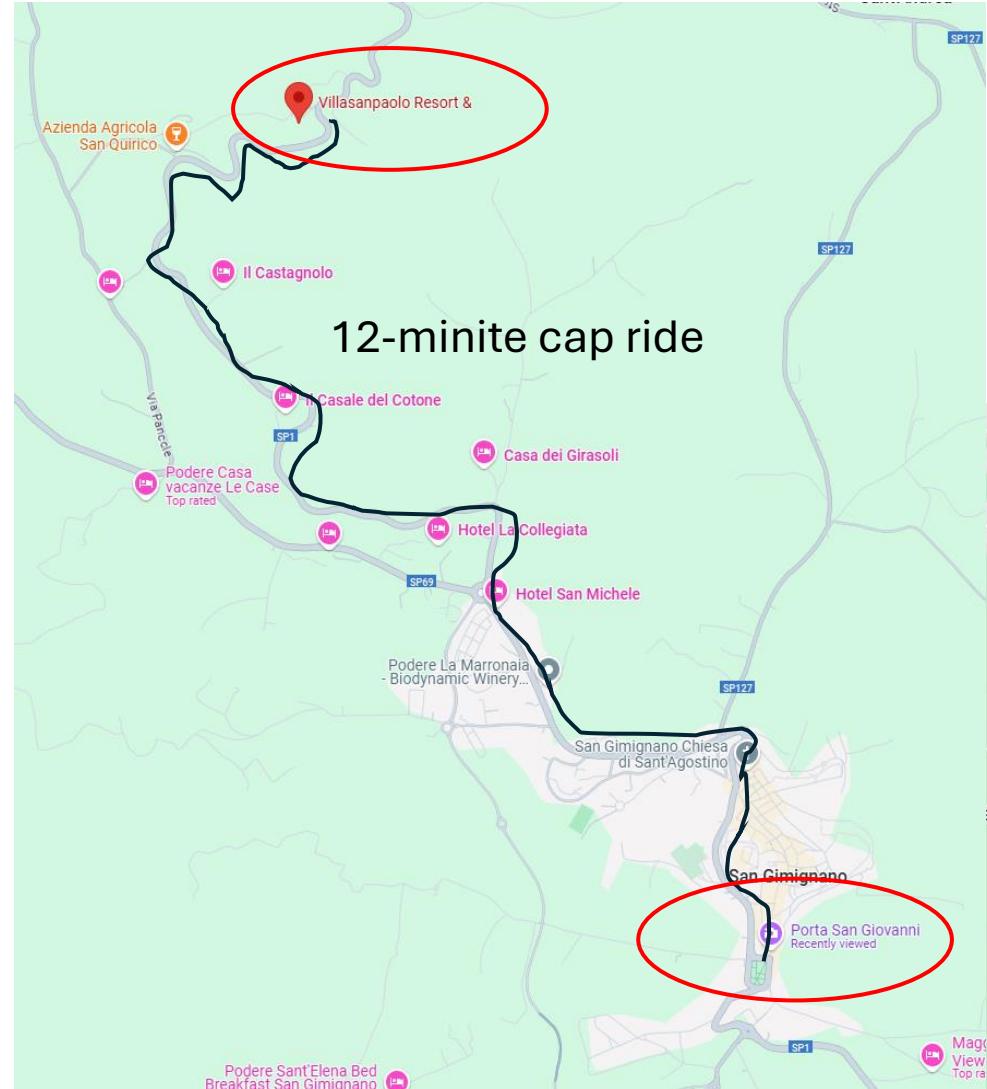
Buses run every hour and take 1 hour and 45 minutes.

The bus arrives at Porta San Giovanni.

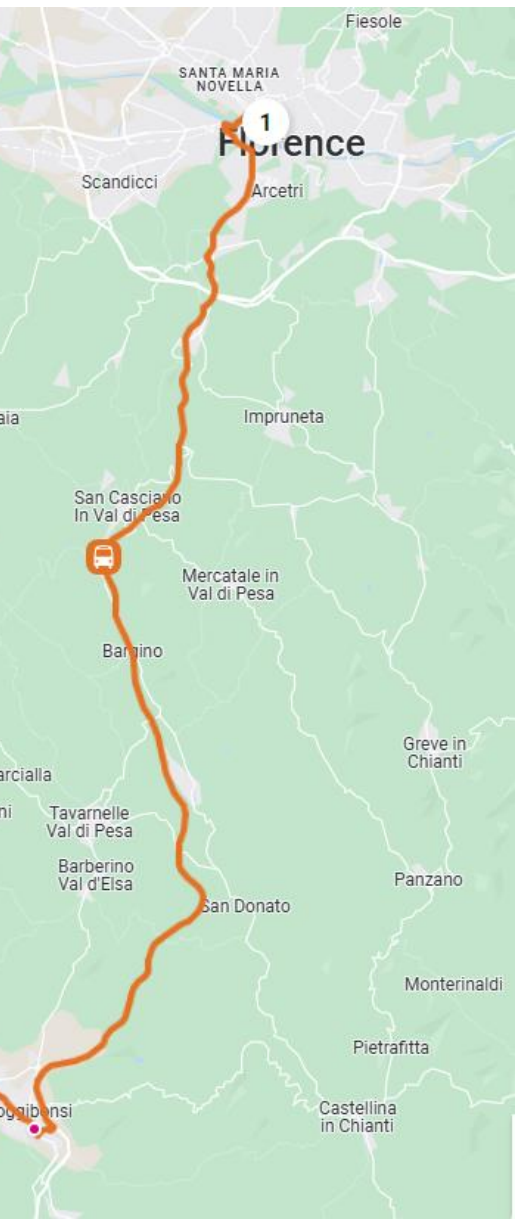
It is a 12-minute cab ride to the Villasanpaolo.

<https://www.rome2rio.com/map/Florence-Italy/San-Gimignano#trips/transport/Florence-Italy/San-Gimignano/r/Bus-line-130-bus>







From Porta San Giovanni (bus stop) to  
Villa Sanpaolo (Workshop Venue)



From Florence to  
San Gimignano



Below is an example of  
the bus service.

10:40		Firenze Autostazione Florence, Italy
		50min
11:30		Poggibonsi Fs [1] Poggibonsi
		35min Transfer
12:05		Poggibonsi Fs [2] Poggibonsi
		20min
		 Details
12:25		Porta San Giovanni San Gimignano, Italy