

Elettra Sincrotrone Trieste



Elettra User Buddy An Al Chatbot To Support The Elettra User Office ©



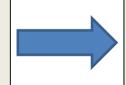


Some terminology

Generative AI: does not simply order data but creates new and original contents tapping into specific knowledge

LLM: Large Language Models: understand human language and generates text (i.e. ChatGPT)

GPT: Generative Pre-trained
Transfomer



Pre-trained: learns from an enormous quantity of documents





User front Office issues

Info requests are too generic ...

.... more information is needed...

.... more emails to/from users....

.... Time consuming!











Customer service development

F.A.Q. Text of frequently asked questions: answers have to be written by UO

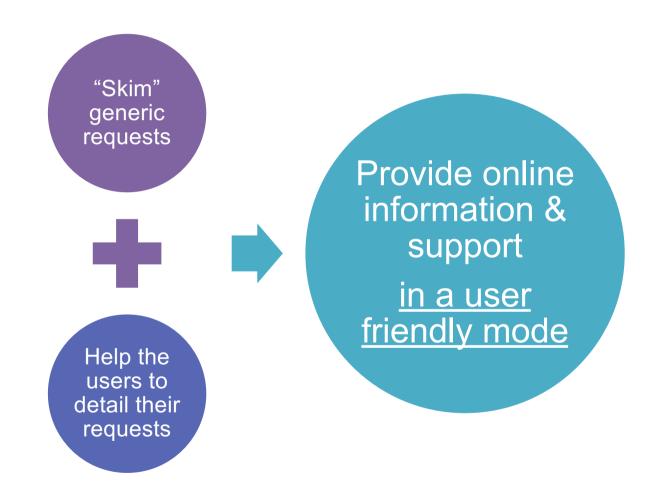
ChatBot basically F.A.Q.s with a more interactive interface

Generative ChatBot gets information directly from specific documents published on the User Area website and generates appropriate answers





Objectives for Elettra User Buddy

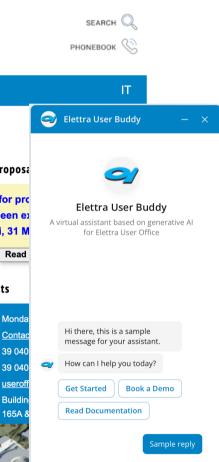


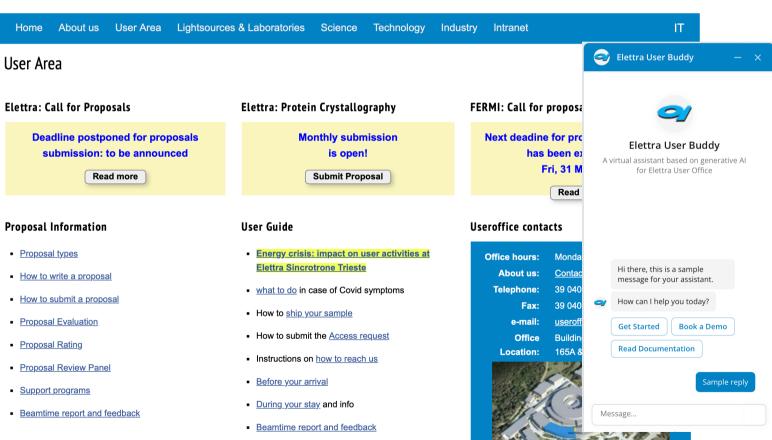




Sincrotrone Trieste Elettra User Buddy









Elettra Sincrotrone Trieste: User Offices Meeting, 23-24/04/2024

Roberto Pugliese, Michela Bassanese



Sincrotrone Trieste Buddy in Action

When is the next deadline for proposals submission

Proposals can be submitted twice a year according to the Elettra/FERMI Call for Proposals. Please refer to the Call for Proposals for the exact deadline.





Is there anything I can do for you? If not have a nice day.

When can I find the page with call for proposals for Elettra



You can find the page with the call for proposals for Elettra on the following website: <u>Call for proposals</u>







Sincrotrone Trieste Buddy in Action



Hello! How can I assist you today?



I want to submit a proposal to Elettra what should I do

To submit a proposal to Elettra, you need to follow these steps:

- Visit the Elettra/FERMI Call for Proposals page at https://www.elettra.eu/userarea/apbt.html
 to check the submission dates.
- Prepare your proposal according to the guidelines provided on the website.
- Submit your proposal through the Virtual Unified Office (VUO) system. If your institute is not in the VUO database, please send the complete address of your institute to <u>useroffice@elettra.eu</u>.
- 4. Once your proposal is submitted, it will be evaluated by the review panel.

Please note that proposals for Small molecules and macromolecular crystallography beamlines can be submitted anytime, as there is no deadline for submission and evaluation is done monthly.









Elettra User Buddy in Action



Hello! How can I assist you today?



How can I resubmit my proposal

To resubmit your proposal, you need to follow these steps:

- Login to the Virtual Unified Office (VUO) using your credentials.
- Select the 'Submit' button in the 'Your proposals' functions group.
- 3. Find the proposal you want to resubmit and click on it.
- 4. Make the necessary edits or updates to your proposal.
- Once you have made the changes, select the 'Check and definitely submit this proposal' link.
- 6. Your proposal will be resubmitted.

Please note that if you want to save your proposal without submitting it, you can choose 'Save in editing status' to submit it later.



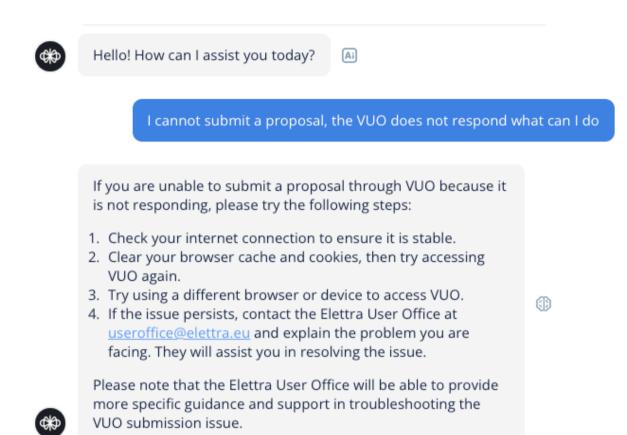
Is there anything I can do for you? If not have a nice day.



Elettra Sincrotrone Trieste: User Offices Meeting, 23-24/04/2024



Buddy in Action







Sincrotrone Trieste Buddy in Action



Hello! How can I assist you today?



I have to ship a sample for an experiment, what should I do

You can send samples for beamtime by following these steps:

- 1. Log in to the Virtual Unified Office (VUO).
- Under "Already submitted proposals" in the "Your Proposals" section, select the proposal related to the samples you want to send.
- 3. Find the "Shipments" section and select "ADD shipment".
- 4. Fill in the requested data and click the "Save" button.
- Fill out the shipment form with the information provided by your express courier, including the courier name and tracking number.
- 6. When you click the "Save" button, the system will send an automatic message to the destination warehouse.

For more detailed information, you can visit the Shipping webpage on the Elettra website:



https://www.elettra.eu/userarea/shipping.html



Elettra Sincrotrone Trieste: User Offices Meeting, 23-24/04/2024

Roberto Pugliese, Michela Bassanese



Buddy in Action

I need a visa to come to Elettra how can i do

Please check directly on the website of the Italian Embassy in your country to determine if you need a visa to come to Elettra. If you do need a visa, you can go to the VUO page (https://vuo.elettra.trieste.it/pls/vuo/invitation_letter.show_letters) and fill in the form to request an invitation letter. This letter will help us prepare your invitation for the visa application process. If you need further information, you can write to useroffice@elettra.eu.







Buddy has hallucinations...

How can i have support for my experiment

If you need support for your experiment, you can apply for the support program called POC (Proof of Concept). This program provides financial and technical support to users who have innovative ideas and need assistance in conducting their experiments at Elettra. You can find more information about the POC program on our website: [link to POC program information].







Sincrotrone Trieste Buddy is fine again...

How can I have support for my experiment

Please check our Support
Program web page to check
the eligibility and rules:
https://www.elettra.eu/userarea/
/user-categories.html. If you
still have doubts, please
address any specific questions
to useroffice@elettra.eu.

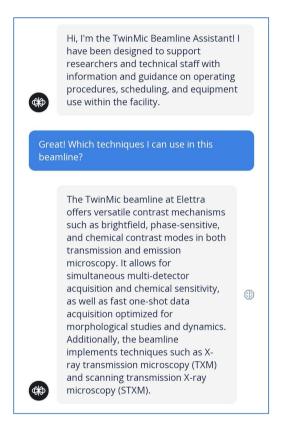
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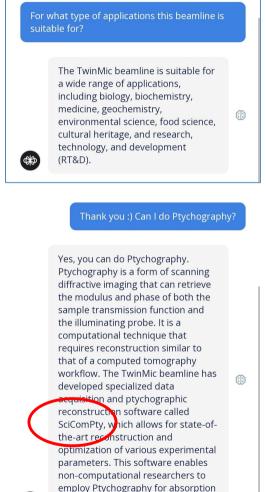




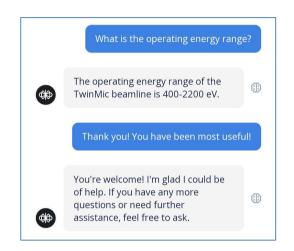


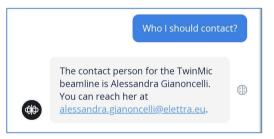
Twinmic Beamline Assistant





and phase imaging data analysis.









Future work

- Proposal rating model (under development) to support Review Panelist:
 - Proposal similarity ... is this new or similar to other?
 - Proposal rating: starting from the proposal and related publication data we are developing a model that can estimate the proposal rate:
 - Model input:
 - Proposal text, Proposal meta data (beamline, team, ...)
 - Model output:
 - Proposal potential in terms of publications
 - Proposal rating





www.elettra.eu