

## WEBINAR

### **“Centralized vs. Federated Models in Medical Applications”**

**Dr. Francesco Cremonesi**

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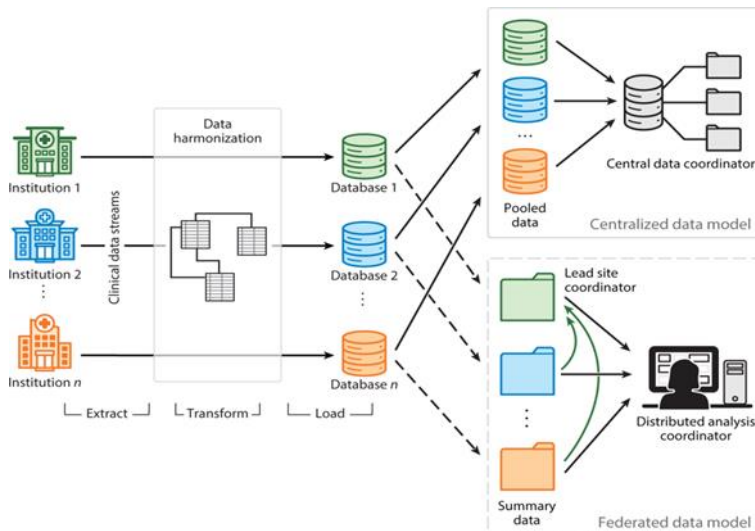
University Côte d’Azur, France

**Wednesday, 29 April 2026, 16:00 – 17:00 (CET)**

Link:

<https://us02web.zoom.us/j/7781623506>

## Centralized vs. Federated Models in Medical Applications



(adapted by Li R at al, 2024)



by

**Dr. Francesco Cremonesi**  
Research engineer, INRIA

### Purpose of the Webinar

Centralized and federated models represent two distinct paradigms for **sharing and analyzing data**, with the primary difference being whether data is aggregated in one location (**centralized**) or analyzed at its source (**federated**). In this Neutro\_NARPS webinar, Dr. Cremonesi will present the **key characteristics of each model** and their **significant roles in data management and AI training in medical applications**, with the choice between them often balancing data access against privacy requirements.

The webinar will explore with specific examples how centralized models offer **consistency and control but can be slow and inflexible**, while federated models **empower teams to move quickly but risk inconsistency and fragmentation**.

These aims will help researchers understand how a **strategic approach to data modelling is essential for transforming raw data into meaningful insights that drive translational medicine forward**.

### Target audience:

researchers, clinicians, biologists, data scientists, students, patient groups and advocacies.