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Université



AMIDEX' Excellence Chair

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**“Transdisciplinarity and Complexity Research
at Aix-Marseille University”**

Centre Gilles Gaston Granger UMR 7304

**March 9-11, 2026
Aix-Marseille University**

EMBEDDING SYSTEMS AND EMERGENCE IN COMPLEXITY

The aim of the conference is to investigate the concept of embedding of a system within its environment, examining it in relation to the emergence of complex structures, both as a thesis and as a research hypothesis. This perspective potentially shifts the focus of emergence from the system itself to the environment in which it is embedded.

This approach can be explored across multiple disciplines, including studies of living systems, ecology, and computer science. Accordingly, the conference will combine formal presentations with discussions and interdisciplinary exchanges. These exchanges will take place through structured discussion rounds, walks, and targeted methodological sessions. We would like to emphasize that learning from one another is just as important as presenting one's own work.

To attend the conference in person:

Aix-en-Provence, Campus Schuman
29, Av. Robert Schuman
13621 Aix-en-Provence - France

Link to participate on ZOOM:

<https://univ-amu-fr.zoom.us/j/5695716656>

PROGRAMME

DAY 1

Monday, 9 March 2026

Maison de la recherche, Room 2.44

2:00 pm – Arrival

2:00–2:15 pm – Fausto Fraisopi (Aix-Marseille University): Welcome

2:15–3:30 pm – Prof. Francisco Lloret (Universitat Autònoma de Barcelona): Ecology as a paradigm of embedding relationships in complex systems

3:30–3:45 pm – Coffee break

3:45–5:00 pm – Dr. Arantzazu Saratzaga Arregi (Aix-Marseille University): Embedding as *nisus formativus* of complex systems.

5:00–6:15 pm – Dr. Pedro Jacobetty (Universität Potsdam): Symbolic machines and the performative archive: large language models and culture

8:00 pm – Conference Dinner (Jardin Mazarin Aix-en-Provence)

DAY 2

Tuesday, 10 March 2026

Bâtiment Multimédia, Salle de colloque 1

9:00–10:15 am – Prof. Erica Onnis (Cusanus University of Rome):
Emergence, Contextuality, and Structural Novelty

10:15–10:45 am – Coffee break

10:45–12:00 pm – Dr. Federico Boem (Ruhr-Universität Bochum):
Microbiome and individuals: biology vs. etymology.

12:00–1:30 pm – Lunch

1:30–3:45 pm – Walk

3:45–5:00 pm – Prof. Jean-Pierre Llored (Ecole Centrale Casablanca):
Investigating embedding relationships in complex systems from the
philosophy of chemistry, mesology, and the philosophy of technology.

5:00–5:30 pm – Coffee break

5:30–6:15 pm – Thinking and Discussion Lab on future collaboration

8:00 pm – Conference Dinner (Le Patio)

DAY 3

Wednesday, 11 March 2026

Bâtiment Multimédia, Salle de colloque 1

8:30 - 10:00 pm: Prof. Fausto Fraisopi (AMU): On some features of complexity concerning embedding systems: Modularity (hierarchy); Multi-scale and multi-order functional organisation; Model specificity/model plurality; Model centredness; Constraints [holonomic and non holonomic]

10:30 - 12.30 am: Prof. Auguste Nsonsissa I: “Les frontières de la connaissance scientifique et leurs implications dans l'horizon de l'épistémologie de la complexité”

12.:30 - 2:00 pm: Lunch break

2:00 - 4:00 pm: Research Group discussion

5:00 - 7.00 pm Prof. Auguste Nsonsissa II: “La crisologie à la lumière de la théorie quantique et le schisme en physique de Karl Popper”.

Organisation

For organisational matters such attendance and accommodation, please contact the Head of the **AMIDEX Excellence Group** t-co.re@AMU, Prof. Fausto Fraisopi

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