CRESON: Callable and Replicated Shared Objects over NoSQL

Scientific Seminar

Dr. Etienne Rivière
(Université de Neuchâtel)

Location: Faculty of Computer Science, Iași
2 May, 14:00 - Room C308

In a Cloud environment, the ability to share and persist objects simplifies the design of applications. This talk will describe the design of CRESON, a system supporting callable objects over NoSQL, in which application objects are mapped and instantiated directly on the storage nodes. The implementation of CRESON leverages the support of a listenable key-value store, a novel NoSQL storage abstraction. The performance of CRESON will be discussed using the example of the portage of a personal cloud storage service.

**Traditional Object-NoSQL mapping**

- in-memory object
- serialized object
- state-based replication

**CRESON: callable and replicated shared objects**

- proxy
- operation
- operation-based replication

This event is part of:
EBSIS – Event Based Systems in Iași
A Twinning between Universitatea Alexandru Ioan Cuza din Iași, Université de Neuchâtel and Technische Universität Dresden

http://ebsis.info.uaic.ro

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 692178