

**COLLOQUE**

**N°02**

**DIGITAL TWINS : WHAT ? WHY ? HOW ?**  
**JUMEAUX NUMERIQUES : QUOI ? POURQUOI ? COMMENT ?**

9h	Accueil
9h05 09h45	<b>A digital twin of Earth</b> Pr Wilco HAZELEGER, Utrecht University, The Netherlands
9h45 10h25	<b>Representations of patients as digital twins for precision medicine: conceptual clarification</b> Stanislas DEMUTH, MD, UFR Médecine, Center for Research in Transplantation and Translational Immunology (CR2TI) / UMR_S, 1064/NEMO
10h25 10h55	Coffee break
10h55 11h35	<b>European project CAELESTIS, Next-generation avionics: digital twins for product and process, digital linkage between process simulations and assembly simulations applied to an aero engine guide vane</b> Dr Tanguy MORO, Expert in structural modeling and industrial processes, Jules Verne Institute of Technological Research, Nantes
11h35 12h15	<b>Towards digital twins-based digital health</b> Pr Gayo DIALLO, Bordeaux Population Health Inserm 1219, Bordeaux University
12h15 13h30	Lunch break
13h30 14h10	<b>Contribution of a digital twin for the validation of autonomous vehicles</b> Jeremy JASPAR, Third-year PhD candidate, Stellantis & Paris XIII University
14h10 14h50	<b>Hemodynamic digital twins to assess whether, when, or how to perform a surgical intervention</b> Irène VIGNON-CLEMENTEL, Director of Research, Inria Saclay Île-de-France
14h50 15h30	<b>Notre-Dame de Paris digital ecosystem: from material object to knowledge object</b> Violette ABERGEL, Researcher, CNRS, MAP (Models and Simulations for Architecture and Heritage)
15h30 16h00	Coffee break
16h00 16h40	<b>Adjusting the physiological parameters of a digital twin under general anesthesia</b> Dr Hugo BOISAUBERT, Temporary Teaching and Research Associate, LS2N, Nantes University Christine SINOQUET, Associate Professor, LS2N, Nantes University
16h40 17h10	<b>Leveraging digital twins in urgent computing: application to earthquake early warning systems</b> Dr Daniel BALOUEK, Researcher, Inria, LS2N, Nantes
17h10	End of symposium