

## Meet-up 2019 | Doctorants & Industrie

# **Stochastic Modelling of Autonomous Vehicles**

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#### **4. GENERATION METHODOLOGY**

#### **1. CONTEXT**



#### **2. OBJECTIVES**

**Automatic Test** cases generation

### **5. SCENARIOS GENERATION**

• Vertices: reachable states of model **Edges: transitions between them** 





## **6. CURRENT WORK**



## **3. TEST CASES**





• temporal development between several scenes in a sequence of

scenes

Scene



• snapshot of the vehicle environment including the static and mobile elements, and the relationships among those elements.

#### REFERENCES

- Wei Chen, Leïla Kloul, Stochastic Modelling of Autonomous Vehicles Driving Scenarios Using PEPA. IMBSA 2019: 317-331
- Wei Chen, Leïla Kloul, An Ontology-based Approach to 11. Generate the Advanced Driver Assistance Use Cases of *Highway Traffic.* KEOD 2018: 73-81



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