We aim at addressing this problem by developing machine-assisted innovation touring. The machine, client visit and understanding its needs in term of innovation (in its particular industry) and people behind the innovation. Such a limitation is due to the huge manual effort in preparing a numerous requests and preparation needed to showcase relevant technologies, projects, innovations. Unfortunately not all client requests to understand innovation in Accenture can be granted due to the number of clients attracted by The Dock and its visits has grown exponentially over the past 12 months. The Dock has been designed to showcase the best of Accenture innovation and inspire our clients. The number of visits has grown exponentially over the past 12 months. The number of visits has grown exponentially over the past 12 months. 

--- Business Context ---

All journeys of innovation start by understanding our clients, their industry, value, limitations, and impact on the marketplace. Accenture The Dock in Dublin, as the Accenture innovation hub in Europe, has been designed to showcase the best of Accenture innovation and inspire our clients. The number of clients attracted by The Dock and its visits has grown exponentially over the past 12 months. Unfortunately not all client requests to understand innovation in Accenture can be granted due to numerous requests and preparation needed to showcase relevant technologies, projects, innovations and people behind the innovation. Such a limitation is due to the huge manual effort in preparing a client visit and understanding its needs in term of innovation (in its particular industry).

--- Research Context ---

Robots helping humans in performing their everyday activities are becoming nowadays very popular, given the valuable impact they may bring on society, e.g., robots assisting elderly people in their places to support them in their everyday tasks. However, in order to concretely interact with humans, intelligent systems are required to show some human-like abilities such as the ability to explain their own decisions.

The research question we target for this post-doctoral position is "how to explain and justify machine decisions to humans?". The domains are Artificial Intelligence, and more specifically Machine Learning, Argumentation (as KRR formalism intended to explain decision making) and Semantics (knowledge graphs).

This post-doctoral position grounds has for research context the ALOOF project. In a nutshell, one of the goals of ALOOF is to equip autonomous systems with the ability to learn the meaning of objects, i.e., their perceptual and semantic properties and functionalities, from externalized knowledge sources accessible through the Web. More details may be found here: https://project.inria.fr/aloo/
interfaced by Softbank Pepper, will be responsible for guiding clients to relevant projects, team, people, prototype, asset by understanding the client industry, its value, limitations, and impact on the marketplace. Data will be collected internally to gather Accenture projects and assets, and externally to consolidate it with the Web of data. The machine will be able to justify its decisions (e.g., showcase of a project, team or asset) through real-time interaction, ensuring a seamless machine to human (client) journey across innovation in Accenture.

Main activities

The objectives of this postdoctoral position are:

- The gathering of bibliographical content to constitute a solid basis for working on the following development.

- The definition of an Information Extraction module to extract information from the raw data provided as input by the Accenture company, and definition of a Semantic module able to construct the knowledge graph based on the output of the Information Extraction module.

- The definition of a Decision Making module, so that given the goal of the client and his own background, a plan is elicited to be executed, i.e., the specific tour in the company building.

- The definition of an explanation module, such that the decision is explained and justified to the clients by means of an argumentation framework grounding on the generated knowledge graph.

- The scientific results obtained during the postdoc will be published in top conferences and journals in Artificial Intelligence.

Skills

The candidate must hold a PhD thesis in Computer Science, with a specialization on the Artificial Intelligence field. He must have strong skills on the field and possibly in some frameworks and languages related to it, knowledge on the Natural Language Processing field might also help. An experience with Machine Learning frameworks is strongly advised. Finally, he must have good English skills in writing and communication.

Benefits package

- Subsidised catering service
- Partially-reimbursed public transport
- Social security
- Paid leave
- Flexible working hours
- Sports facilities

Remuneration

Gross Salary: 2650 brutto per month