Università degli Studi di Messina, Italia
Dipartimento di scienze matematiche e informatiche,
scienze fisiche e scienze della terra

Soggetto: proposta di tirocinio

ID	PTI_Distefano Salvatore_20/11/2024 15.49.15
Data	20/11/2024 15.49.15

Supervisore del progetto

Cognome	Distefano
Nome	Salvatore
Dipartimento	MIFT
Laboratorio	HPCA Lab
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Numero di telefono	

Co-Supervisore del progetto

Cognome	
Nome	
Posizione	
Dipartimento	

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Laboratorio	
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Numero di telefono	

Dettagli del progetto

Titolo	Dataspaces

Descrizione dettagliata: A Dataspace (DS) is a digital ecosystem that enables secure, trusted, and interoperable data sharing among different organizations.
Dataspaces main features can be identified as: i)
data-centricity - Dataspaces are shaped around the data, rather than the applications or systems that use the data.
 Data are proper entities, e.g., products (data as a product - DaaP), services (data as a service - DaaS), resources and things (Internet/Web of Data, linked data); ii)
data value creation - Dataspaces should facilitate the creation of multi-sided markets where participants can generate value by sharing data, thereby creating data value chains through ontologies, standards, mechanisms and solutions for data management;
iii) interoperability - Dataspaces enable data sharing and interoperability across different systems, organizations, and domains. Integration is not a by-design requirement, pre-/post-scheme for integration may be defined in DS;
iv) reusability - Dataspaces promote the reuse of data and data products, reducing the need for redundant data creation and maintenance; v) security/trust and governance - Dataspaces ensure the secure and controlled access to data, while also providing mechanisms for data governance to enforce sovereignty and quality control.
The DS management and dynamics are quite intricate and challenging. DS workflows and processes, indeed, are mainly related to participants or parties, i.e. providers and customers.
Several relevant and authoritative initiatives on Dataspaces have been promoted so far, among others
https://digital-strategy.ec.europa.eu/en/policies/data-spaces
The students in this internships have to further investigate on Dataspaces technologies, tools, frameworks, application domains, examples and case study, providing an overview of related technologies.

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Durata (mesi – max 12)	<<Durata in mesi>>
Durata (ore)	<<Durata in ore>>
Numero di posizioni aperte	4

Competenze richieste dal tirocinio

Requisiti tecnici: Data management, programming	
Altri requisiti	