



Title	SCADA						
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Creator / Responsible Partner Dataset Identifier	CRF OR A many mixed MESCRE I DiDacs WD2 D2 1 vt0 1 77						
	08 AnonymisedMESCRF I-BiDaaS WP2 D2.1 v0.1.7z						
DOI	10.5281/zenodo.4265324 ¹						
Dataset Description	The dataset contains sensors data of welding process in the sub-assembly lines of the vehicle. Different types of sensors are installed on the production line and acquire different data information (e.g. acceleration, velocity, pressure, temperature and so on). All of the sensors record their perception of the surroundings, uploading and transfer this information to a server that manages the data. For example, accelerometers are used for measuring vibration and shock on machines and basically anything that moves. Therefore, the monitoring of vibrations is important to check the status of a machine and the analysis of the trend of vibrations over time allows to predict the onset of deterioration and to intervene in time before the failure for the Predictive maintenance. This dataset can be used to analyse sensor						
	data and obtain thresholds for anomalous measurements. There						
	are 147 sensors, listed by categories as follows:						
	Number of	Physical quantity	Unit of				
	sensors	measured	measurement				
	87	Acceleration	mg				
	30	Velocity	mm/s				
	9	Temperature	°C				
	8	Pressure	bar				
	8	Flow	l/min				
	1	1 Displacement					
	2	Energy vector (water)	1				
	1	Energy vector (air)	m^3				
	1 Energy vector (air)		m ³ /h				
Work Package/Deliverable	SCADA to obtain thresholds for anomalous measurements for all sensors						
	WP2/D2.1						
Source	Data have been retrieved from sensors mounted on several machines (e.g. linear stages, robots, elevators) along the production line of vehicles. We focused on welding lines in which robotic is used to assembly vehicles' components and flexibility is required for the continual changes of the types of components and vehicles.						
Processing	Data have been processed following CRF rules						
Repository	Zenodo						
Language	English						

¹ https://doi.org/10.5281/zenodo.4265324

Code list							
		Id	Value	Unit	Timestamp		
	Example	667	49.75	mg	23/04/2018		
	'Id' column reports the number that identifies the specific sensor. The other columns report on the value of the specific sensor, the unit of measurement and the timestamp.						
Type	Number						
Format	csv						
Expected Size	20.1 GB						
Keywords	sensor data						
Version	V0.1						
Date of Repository	07/12/2020						
Submission							
Necessary software	 any software enable to open formatted txt files (Notepad, Excel) is sufficient to view them the software to analyse data depends on the type of analysis 						
Rights	CRF						
Access Information	Open						