



Research Objective

Smart Connected Human (SCH) enables the safe and secure communication and sharing of data among humans working in any future manufacturing scenarios. The interplay of four major parameters: human, machine, materials and energy, dictate the productivity, efficiency, visibility and accessibility in future manufacturing environments.

The outcome will be a mobile wearables SCH system including various IOT devices to observe equipment functions and conditions, incorporate the interaction between human-human and human-machine, robust wireless transceivers, and antenna sensors. It will be feasible for metal additive manufacturing with application in aerospace.

Research Approach

The proposed system uses emergent electronics and software, widely deployed advanced smart meters to acquire data with affordable scalable systems and is an important first step for SCH gaining insight into workflow and its associated energy usage then working together to achieve a defined outcome.

Research Team

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