Summary Post

by Abdulrahman Alhashmi - Saturday, 16 August 2025, 9:34 AM

In my initial post, I looked at the 2021 Texas power grid failure as a real-world example of the risks that come with relying on interconnected systems without proper resilience planning. Over four million people were left without electricity, with huge economic losses and tragic loss of life (Busby et al., 2021). Industry 4.0 technologies such as IoT-enabled monitoring and predictive maintenance could have helped, but they were either not fully in place or not effectively used (Lu, 2017). This shows why Industry 5.0, with its focus on resilience and human–machine collaboration, is so important (Brem, Viardot and Nylund, 2021).

Peer audit gave me a modern viewpoint on this case. The idea that Industry 5.0 frameworks must be planned with versatility in intellect from the starting, instead of as an idea in retrospect, interested me. Strength, concurring to Alves, Lima, and Gaspar (2023), is the capacity of frameworks to continue working indeed within the confront of disappointment and quickly recoup. The power outage, which happened since the lattice needed certain shields, is comparable to this point of see. Another comment emphasized that the circumstance was a administration issue as much as a specialized one. Concurring to Introna, Santolamazza, and Cesarotti, joining AI with human supervision can progress chance appraisal and speed up crisis activities.

What also resonated with me was the ethical dimension. The Texas blackout was not simply about system performance; it was about lives and livelihoods. Industry 5.0, as Brem et al. (2021) explain, reminds us that technology should centre on people as much as on efficiency. Reflecting on this, I now see resilience as both a technical and a moral responsibility.

References

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