

Smart approaches for the machinability analysis of biocomposites: Acoustic emission technique



From Arts et Métiers:

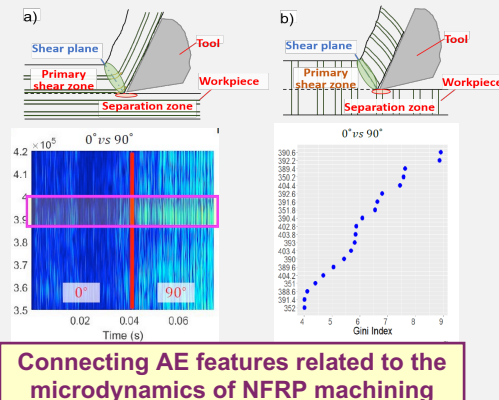
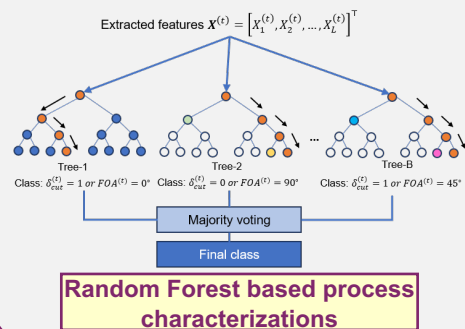
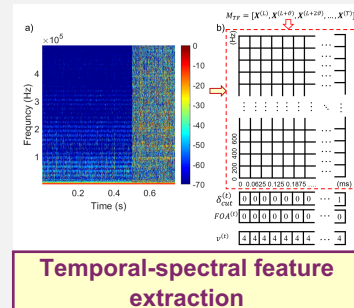
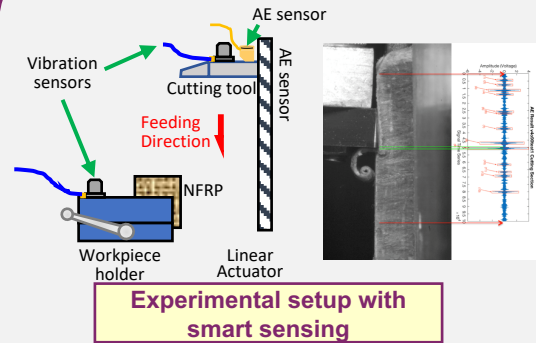
- Dr. Faissal CHEGDANI
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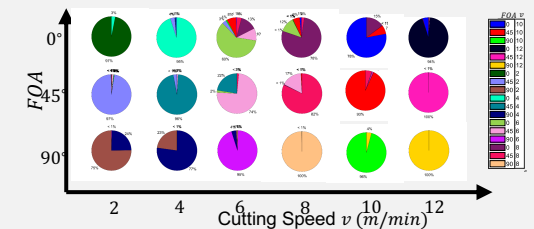
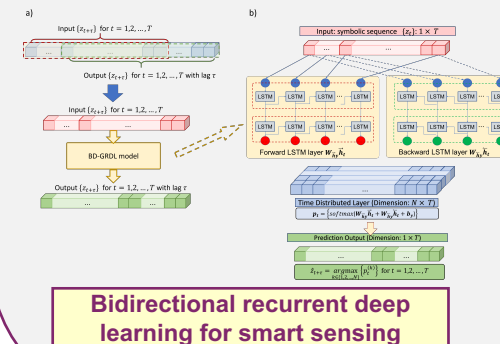
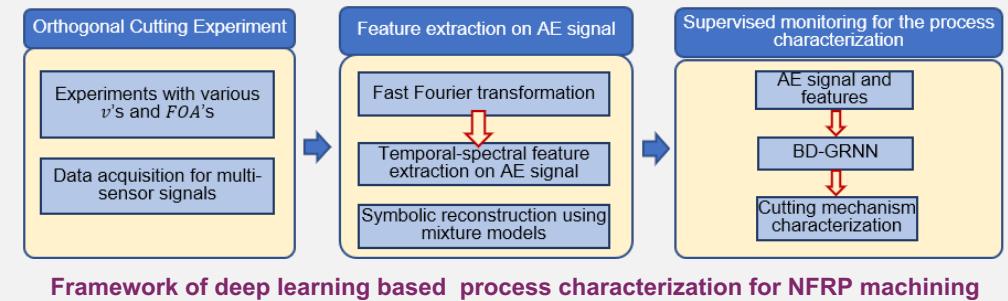
From TEXAS A&M:

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- Prof. Satish BUKKAPATNAM

Acoustic emission for characterizing NFRP machining



Deep Learning approach for process recognition



- ❑ Wang, Z., Chegdani, F., Yalamarti, N., Takabi, B., Tai, B., El Mansori, M., Bukkapatnam, S. "Acoustic emission characterization of natural fiber reinforced plastic composite machining using a random forest machine learning model", Journal of Manufacturing Science and Engineering, Transactions of the ASME, Vol. 142, Issue 3, 2020, art. no. 031003
- ❑ Wang, Z., Dixit, P., Chegdani, F., Takabi, B., Tai, B., El Mansori, M., Bukkapatnam, S. "Bidirectional gated recurrent deep learning neural networks for smart acoustic emission sensing of natural fiber-reinforced polymer composite machining process", Smart and Sustainable Manufacturing Systems, Vol. 4, Issue 2, 2020