

**Balancing rotor speed regulation and drive train loads of floating wind turbines ( *Journal of Physics Conference Series* )**

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<b>Available online</b>	YES - <a href="#">Link</a>
<b>Abstract</b>	<p>The interaction of the blade pitch controller with structural motion is particularly important for wind turbines mounted on floating platforms. A controls-based approach to overcome the related technical challenges is to feed back the nacelle's motion to the demanded generator torque. This work aims to further improve this approach by feeding back only a narrow fraction of the available frequency range. Simulations show that, in doing so, unrealistically high torque magnitudes are avoided, and better a trade-off between rotor speed regulation and drive train loads is achieved.</p>
<b>Related Pictures (if any)</b>	