



**The Fifth International Conference on  
Damage Mechanics (ICDM5)**

**Date: 16th - 18th July 2025**

**Venue: National University of Singapore**

<p><b>Mini Symposium Title</b></p>	<p>Damage characterization of advanced composite materials and structures</p>
<p><b>Short description on the focus of the Mini Symposium</b></p>	<p>The objective of this mini-symposium is to provide a platform for the exchange of recent developments and innovative methodologies in the characterization of damage in advanced composite materials and structures. This includes both experimental and numerical approaches for studying a range of composite architectures, such as laminates, sandwich panels, woven and braided fabrics, spread tows, and bio-inspired designs. The symposium will cover key damage mechanisms like fiber breakage, matrix cracking, interlaminar failure, and delamination under various loading conditions, including tensile, compressive, shear, and impact.</p> <p>Contributions focusing on multiscale and high-fidelity modeling techniques, as well as data-driven methods incorporating artificial intelligence, are particularly encouraged. Experimental efforts in non-destructive evaluation (NDE) and structural health monitoring (SHM) will also be welcomed. Additionally, studies on environmental degradation effects, fatigue, and production-induced defects will be explored to provide comprehensive insights into composite behavior.</p>
<p><b>Organizers</b></p>	<p>Jie Zhi, Tongji University Weifeng Yuan, Southwest University of Science and Technology Libin Zhao, Hebei University of Technology Yan Li, Tongji University</p>