

	<p align="center"> <b>TNChE Asia 2025 Conference</b>  <b>" Accelerating Industrial Decarbonization:</b>  <b>Digital-AI and Energy Transformation "</b>  <b>Presenter's Biodata &amp; Abstract</b> </p>	
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Portrait (face)  
 photo of  
 Presenter;  
 and Company  
 Logo, if  
 available

**Title of Presentation** : **Systems of systems framework for end-to-end optimization of petrochemical supply chain**

**Presentation Abstract:** In this presentation, I will explore a recently developed Whole Chain Integration (WCI) framework, jointly created by SCGC and QTFT, aimed at achieving end-to-end optimization of SCGC supply chains, spanning from Olefins to PolyOlefins as a cohesive system of systems. This framework leverages Category Theory, a mathematical discipline that facilitates the standardization of both data structures and business logic. As a result, it enables the establishment of a flexible, organization-wide adaptive supply chain that surpasses the limitations of traditional manual decision-making processes. I will also highlight several use cases and the advantages of implementing the WCI framework.



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