

Laboratory for Intelligent Applications in Chemical Engineering

Harnessing Chemical & Biological Processes through Artificial Intelligence & Systems Engineering

Environmentally Benign Process Design & Operations

Equipment and human failure lead to abnormal situations with catastrophic consequences. We are developing systems that help engineers and operators in safer design & operations

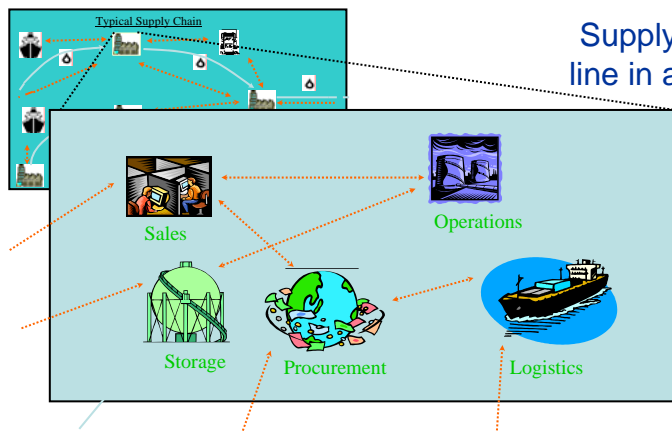
Ongoing Projects

- Inherent safety & waste minimization in process design
- Process supervision, monitoring & diagnosis
- Intelligent alarm management



Enterprise-wide Optimization

Supply chain improvements can significantly impact the bottom line in all enterprises. Our research would enable companies to model, monitor, manage their supply chain networks



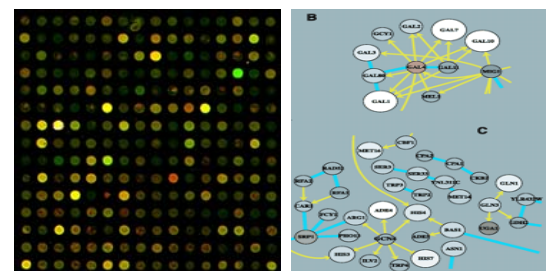
Ongoing Projects

- Refinery planning & scheduling
- Agent-based modeling of supply chains
- Disruption management

Computational Systems Biology

The understanding of the building blocks of life - DNA, RNA, proteins - and their interactions is essential to predicting and preventing diseases. We are developing computational models to better understand biological systems

- Ongoing Projects
- Hybrid modeling of genetic networks
 - Reverse engineering of biosystems



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ChemBioSys @ NUS

Engineering Systems from Molecules to Multinationals

