

Future Research Directions

N.Viswanadham

Supply Chain Research

- Analysis – Map, Model and Analyze SC
- Design – Configure SC
- Build – Implement SC
- Operate – Manage SC
- Improve – Reengineer SC

Analyze

- Map the supply chain
- Model:
 - Static Planning Models: MIP
 - Dynamic DES: QN, PN, System Dynamic, Simulation, Probabilistic networks
- Analyze for performance: Lead time, cost

Design

- Business processes
- Legacy systems
- Technology
- Performance optimization
- Network Configuration Design
- Partner Selection and Organization Structure
- Design for Manufacturing, Design for Logistics

Build

- Infrastructure for material, information and funds movement
- Relationship Management and Decision making.
- Network based Supply Chain Planning and Management Tools

Operate

- Operate:
 - Workflow
 - Monitoring and Measurement
- Improve using new technologies and new techniques

Hot of the Press !!

- Supply Chain Risk Management
 - Operational, Financial and other kinds of risk.
- Datamining for Supply Chain Management
 - Customer Relationship Management
 - Supplier Relationship Management
 - Supply Chain Event Management
- B2B Workflow controller
- Finlistics
 - Related to mapping and optimisation of financial flows in logistics.

Hot of the Press !!

- Collaboration
 - Scheduling
 - Event Management
 - Product Development
- Dynamic Pricing
 - Revenue/Yield Management
 - Auctions
- Marketplace and design of matching algorithms