# MITIP 2011 Conference – Program and Paper Sessions

## Wednesday June 22th

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>17.00 – 21.00</td>
<td>Registration at Valgrinda Campus (SINTEF Teknologi og samfunn, S. P. Andersens vei 5, Trondheim)</td>
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<tr>
<td>19.00 – 22.00</td>
<td>Welcome Reception and Get Together</td>
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## Thursday June 23rd

<table>
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<th>Time</th>
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| 9.00 – 10.00 | Opening Ceremony and Scientific Key Note Speech (NTNU, Kjelhuset Room 2)  
Heidi C. Dreyer, Chair of MITIP 2011;  
Torbjørn Digernes, Rector of NTNU;  
Geir Øien, Keynote speaker and Faculty Dean of NTNU’s Faculty of Information Technology, Mathematics and Electrical Engineering |
| 10.00 – 10.30 | Coffee Break                                                         |
| 10.30 – 12.00 | Paper session 1                                                    |

### Paper Session 1

<table>
<thead>
<tr>
<th>Room 2</th>
<th>Room 3</th>
<th>Room 4</th>
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| **1.1 Networks**  
Chair: Peter Falster  
Tech. Assistant: Jo Wessel Strandhagen  
Mehdi Safaei  
*(Toward a Better Understanding of the Network Type Impact on Delivery Time Uncertainty in Supply Networks)*  
Stefan Wiesner  
*(Understanding and Modelling Collaborative Bidding Processes)*  
Zsolt Kemeny  
*(Multiple-Participant Hub-and-Spoke Logistics Networks: Challenges, Solutions and Limits)*  
Francesco Novelli  
*(Solution Provider Networks)* | **1.2 RFID (I)**  
Chair: Hans-Henrik Hvolby  
Tech. Assistant: Yngve Mongstad  
Riccardo Melloni  
*(Key Aspects to Improve Performances in Wine Bottling Line: Micro-Failures and Queues Balancing)*  
Ihsan Arkan  
*(Controlling In-Plant Logistics by Deploying RFID System in the Item-Level Manufacturing: A Case Study)*  
Peter Olesen  
*(Review of Wireless Technologies for Performance Measurement and Improvement: RFID, Bluetooth, WIFI, GPS)*  
Mohsan Hussain  
*(RFID in English Healthcare Supply Chains: Where is it?)* | **1.3 Performance and Services (I)**  
Chair: Ralph Riedel  
Tech. Assistant: Andres Tanum  
Torbjørn Netland  
*(The Theoretical Landscape of Intra-Firm Best Practice Management: A narrative Literature Review)*  
Ahsan Munir  
*(Manufacturing Competence Management of Small and Medium Enterprises in a Developing Country)*  
Matthis Laass  
*(Cognitive Learning in Self-Optimization Production Systems)*  
Kjell H. Husby  
*(Attractive Quality and Leadership)* |
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<tr>
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<tbody>
<tr>
<td>12.00 – 13.00</td>
<td>Lunch</td>
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<tr>
<td>13.00 – 14.30</td>
<td>Paper session 2</td>
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### NTNU, Kjelhuset Room 2

#### 2.1 Manufacturing and Materials (I)
- **Chair:** Jan Ola Strandhagen  
- **Tech. Assistant:** Jo Wessel Strandhagen

- **Kris Degryse**  
  (A Method to Support SMEs to Optimize their Manufacturing Operations)

- **Thierry Desmarey**  
  (Software Support for Manufacturing Operations in Belgian SMEs: One Size fits all?)

- **Rhythm Suren Wadhwa**  
  (Robust Prehension for Ferrous Metalcasted Product Families: A Conceptual Overview)

- **Knut Lynum**  
  (Learning and Improvement Processes in Engineering)

### NTNU, Kjelhuset Room 3

#### 2.2 RFID (II)
- **Chair:** Torbjørn Netland  
- **Tech. Assistant:** Yngve Mongstad

- **Rene Leitner**  
  (Development of a Code of Practice for the Implementation of RFID Based Value Added Services)

- **Valur N. Gunnlaugsson**  
  (EPCIS Standard Used for Improved Traceability in the Redfish Value Chain)

- **Selwyn Piramuthu**  
  (RFID for Verifying the Absence of Prohibited Items in a Food Supply Chain)

- **Zsolt Kemeny**  
  (Quality Indication and supply Management of perishable products with optical labels for low-end demands)

### NTNU, Kjelhuset Room 4

#### 2.3 Performance and Services (II)
- **Chair:** Odd Myklebust  
- **Tech. Assistant:** Andres Tanum

- **Daryl Powell**  
  (Lean vs. ICT: Effective Performance Management with Dashboards)

- **Andrés Garcia**  
  (MAS-based Control Architecture Applied to an Automated Logistics Centre)

- **Emrah Arica**  
  (Dashboards for Project Progress Control)

- **Tommaso Lupo**  
  (How Companies Evaluate the Service Quality of the Motor Carriers: Four-Case Study in Italy)

### 14.30 – 15.00
- **Coffee Break**
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<tr>
<td>15.00 – 16.30</td>
<td>Paper session 3</td>
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|              | **NTNU, Kjelhuset Room 2**  
3.1 Manufacturing and Materials (II)  
Chair: Andrés García  
Tech. Assistant: Jo Wessel Strandhagen  
Ralph Riedel  
(Integrating Communication Structures and Information Flow into Layout Planning Models)  
Rhythm Wadhwa  
(Automated Rules Generation for Robot’s Trajectory Planning)  
Alice Bigliani  
(Evaluation of the Energy Consumption in Machine Tool: A Combined Analytical-Experimental Approach)  
Ikuo Tanabe  
(Development of Software for Creating New Materials with Hybrid Properties Desired and Its Evaluation)  
|              | **NTNU, Kjelhuset Room 3**  
3.2 Lean Production and IT  
Chair: Selwyn Piramuthu  
Tech. Assistant: Yngve Mongstad  
Daryl Powell  
(The Use of Information Technology in Lean Production: Results of a Transnational Survey)  
Peter Olesen  
(ERP Systems for Lean Production Control)  
Johannes Cottyn  
(The Role of a Manufacturing Execution System During a Lean Improvement Project)  
Tyra Oseng  
(The Application of Lean Thinking to the Prototype Design and Manufacture of Motorsport Composite Structures)  
|              | 18.30 – 19.00  
Tram from city centre to Lian (St. Olavs gate )  
19.00 – 23.00  
Conference Dinner with Program and Entertainment at Lian Restaurant, Trondheim (Lianvegen 36)  
23.00 – 23.20  
Tram from Lian to city centre |
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<tr>
<td>8.30 – 11.00</td>
<td>Industrial Visit at Teeness AS and Industrial Keynote Speech (Bus from NTNU mainbuilding)</td>
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<tr>
<td>11.00 – 12.30</td>
<td>Paper session 4</td>
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<td>12.30 – 13.30</td>
<td>Lunch</td>
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**NTNU, Kjelhuset Room 2**

4.1 Modeling
Chair: Emrah Arica
Tech. Assistant: Jo Wessel Strandhagen

Denise Koelter
(Coping with Complexity in Global Production Networks: An Interdisciplinary Modeling Approach)

Iqbal Johal
(Constructing Compact Driver Areas for Short-Haul Parcel Distribution)

Sven Fjeldaas
(Online Clothing)

Odd Myklebust
(Lifecycle Oriented Product Model for End of Life Management)

4.2 Lean Production
Chair: Daryl Powell
Tech. Assistant: Yngve Mongstad

Jens Mehmann
(How to Introduce Lean Management to Small and Medium-Sized Enterprises)

Rui Fernandes
(Measuring the Uncertainty Effect Using Options on Inventories)

Ottar Bakås
(Challenges and Success Factors for Implementation of Lean Manufacturing in European SMEs)

**NTNU, Kjelhuset Room 3**

4.3 Green Manufacturing
Chair: Ikuo Tanabe
Tech. Assistant: Andres Tanum

Tyra Oseng
(Innovation and Creativity in Recycling Plastics and Glass)

David Stewart
(The Application of ICT in Reverse Logistics: Current Practice and Challenges for Automotive Remanufacturers)

Flavio Tonelli
(A Mathematical Model for a Parallel Machine Scheduling Energy-Aware Problem in Manufacturing)
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<td>13.30 – 15.00</td>
<td>Paper session 5</td>
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<tr>
<td><strong>5.1 Design and Construction</strong></td>
<td>Chair: Flavio Tonelli</td>
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<td>Tech. Assistant: Jo Wessel Strandhagen</td>
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<tr>
<td>Jinwoo Park</td>
<td>(Real-Time Progress Monitoring system: Application in Block Assembly Shop in Shipyard)</td>
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<td>Kelvin Lake</td>
<td>(The Application of Optimisation in Making the Design Process More Efficient and Effective)</td>
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<td>Kesheng Wang</td>
<td>(Swarm Intelligence: A New Way to Think About Operations Management)</td>
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<td>Mario Mello</td>
<td>(Understanding the Role of Supply Chain Management in the shipbuilding Industry)</td>
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<td><strong>5.2 Strategy and Processes</strong></td>
<td>Chair: Ottar Bakås</td>
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<td>Tech. Assistant: Yngve Mongstad</td>
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<tr>
<td>Mervi Vuori</td>
<td>(Emerging Technologies Enabling Innovative Sourcing and Procurement Practices)</td>
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<td>Daniele Marazzi</td>
<td>(B2B Integration from Scratch: A Longitudinal Case Study)</td>
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<td>Alessandro Sicco</td>
<td>(Linking IT Strategy, Business Strategy and Firm Results: An Empirical Study)</td>
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<td>Francesco Novelli</td>
<td>(Coordinating Variable Collaboration Processes in Logistics)</td>
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<tr>
<td>15.00 – 15.30</td>
<td>Coffee Break</td>
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<tr>
<td>15.30 – 16.00</td>
<td>Closing Session (NTNU, Kjelhuset Room 2)</td>
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