SUPPLY CHAIN MANAGEMENT FOR INDUSTRY 4.0

- A STRATEGIC POSITIONING WORKSHOP -

THE CHALLENGE

The new technological developments collectively labelled ‘Industry 4.0’ present considerable opportunities but also new challenges. In particular, the emergence of dynamic market changes necessitated by changes in customer preferences timely adjustments is required in manufacturing to meet these changing demands. Although the design of manufacturing systems in the context of I4.0 facilitates an efficient data flow between different machines it does not yet deliver on the promise of I4.0 to seamlessly integrate supply chains, big data analytics applications or enterprise-level planning modules.

This workshop presents an opportunity for academics and practitioners to explore these opportunities and challenges, identify key research issues in this area and a potential pathway forward, and to network.

CONTRIBUTORS INCLUDE

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KEY QUESTIONS

A. What are the key challenges and opportunities in terms of manufacturing process organization and supply chain management in the context of Industry 4.0?

B. What are suitable architecture models, technologies and standards for the realization of digitized production engineering processes across horizontally and vertically cyber-physically integrated enterprises in Industry 4.0?

C. What are the broader implications of a continuing digitization and servitization of production engineering and a cyber-physical supply chain on the competitiveness of the UK manufacturing sector?

VALUE

The session will be valuable for:

- Manufacturers
- Suppliers
- Academics in Manufacturing Engineering, Operations Management, Information Systems

https://goo.gl/maps/Zmh1D3oc4bi6qPzb6

FREE TO ATTEND

Workshop is free to attend, but registration is required until DATE at the latest.

REGISTER @
https://www.eventbrite.co.uk/e/91628568515
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<tr>
<th>Time</th>
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<tr>
<td>08:30 – 09:00</td>
<td>Registration, Coffee and Networking</td>
<td>Foyer, Harrison Hughes Building, School of Engineering</td>
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<tr>
<td>09:00 – 09:15</td>
<td>Welcome and Opening&lt;br&gt;&lt;i&gt;Dr Jelena Milisavljevic Syed&lt;/i&gt;</td>
<td>Design Studio, Room 304, Walker Building</td>
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<tr>
<td><strong>Session 1</strong></td>
<td>Theme A&lt;br&gt;Moderator <strong>Professor Dirk Schaefer</strong></td>
<td>Design Studio, Room 304, Walker Building</td>
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<td>09:15 – 09:45</td>
<td>The Role of Additive Manufacturing in Industry 4.0&lt;br&gt;&lt;i&gt;Dr Kate Black&lt;/i&gt;</td>
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<td>09:45 – 10:15</td>
<td>Data Driven Smart Manufacturing&lt;br&gt;&lt;i&gt;Professor Weidong Li&lt;/i&gt;</td>
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<td>10:15 – 10:45</td>
<td>Supply Chain 4.0: Building on Digitalisation and Analytics&lt;br&gt;&lt;i&gt;Professor Emel Aktas&lt;/i&gt;</td>
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<td>10:45 – 11:00</td>
<td>Coffee Break and Networking</td>
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<td><strong>Session 2</strong></td>
<td>Theme B&lt;br&gt;Moderator <strong>Dr Bahar Khayamian Esfahani</strong></td>
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<td>11:00 – 11:30</td>
<td>Architecture Models for Digitized Manufacturing and Servitization&lt;br&gt;&lt;i&gt;Dr Jelena Milisavljevic Syed&lt;/i&gt;</td>
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<td>11:30 – 12:00</td>
<td>Photodiode-based In-process Quality Control of Additive Manufacturing Parts&lt;br&gt;&lt;i&gt;Dr Paolo Paoletti&lt;/i&gt;</td>
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<td>12:00 – 12:45</td>
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<td><strong>Session 3</strong></td>
<td>Theme C&lt;br&gt;Moderator <strong>Dr Ji Han</strong></td>
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<td>12:45 – 13:15</td>
<td>Frontier Issues in Cloud Manufacturing and Supply Chain Management for Industry 4.0&lt;br&gt;&lt;i&gt;Professor Dirk Schaefer&lt;/i&gt;</td>
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<td>13:15 – 13:45</td>
<td>Thinking Industry 4.0 – Autonomous, Connected, Smart&lt;br&gt;&lt;i&gt;Professor Jorn Menhen&lt;/i&gt;</td>
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<td>13:45 – 14:15</td>
<td>Closed-Loop In-Process Quality Improvement: ‘Right-first-time’ Production Through Digital Technologies&lt;br&gt;&lt;i&gt;Professor Darek Ceglarek&lt;/i&gt;</td>
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<td>14:15 – 14:30</td>
<td>Charter for Breakout Sessions&lt;br&gt;&lt;i&gt;Professor Dirk Schaefer&lt;/i&gt;</td>
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<td><strong>Session 4</strong></td>
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<td>14:30 – 15:30</td>
<td>Breakout Session – Theme A&lt;br&gt;(Rapporteur Hannah Forbes)</td>
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<td>Breakout Session – Theme B&lt;br&gt;(Rapporteur Christian Obieke)</td>
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<td>Breakout Session – Theme C&lt;br&gt;(Rapporteur Melanie Bause)</td>
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<td>15:30 – 15:45</td>
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<td><strong>Session 5</strong></td>
<td>Moderator <strong>Dr Ji Han</strong></td>
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<td>15:45 – 16:45</td>
<td>Reporting Back from Breakout Sessions&lt;br&gt;Discussion&lt;br&gt;Research Roadmap Ahead</td>
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<td>16:45 – 17:00</td>
<td>Closing Remarks&lt;br&gt;&lt;i&gt;Dr Jelena Milisavljevic Syed&lt;/i&gt;</td>
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