



**Dr Aydin Nassehi**  
**BSc, MSc, MSc, PhD**

Reader/Head of Department

**Area of research**

Smart Manufacturing Systems

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**Summary**

**Teaching**

Manufacturing Processes in MENG16000 - Design and Manufacture 1

Manufacturing Processes in MENG11600 - Design and Manufacturing Principles 1

Manufacturing Systems (MENGM0032) - For this unit University of Bristol uses Simio [simulation software](#) under a grant from Simio LLC ([www.simio.com](http://www.simio.com)).

**Keywords**

- Artificial intelligence in manufacturing
- Shopfloor interoperability
- Manufacturing semantics
- Autonomous production systems

**Memberships**

**Organisations**

[Department of Mechanical Engineering](#)

**Other sites**

- [Mecheng](#)

**Research Groups**

- [Engineering Systems and Design - Core](#)
- [Engineering Education](#)

**CDTs**

- [IDC in Systems](#)

## Recent publications

- Mourad, M, Nassehi, A, Schaefer, D & Newman, ST, 2020, '[Assessment of interoperability in cloud manufacturing](#)'. *Robotics and Computer-Integrated Manufacturing*, vol 61.
- Ma, A, Nassehi, A & Snider, C, 2019, '[An analysis of premium payments as a mechanism for securing preferential service in cloud manufacturing](#)'. in: Peter Butala, Edvard Govekar, Rok Vrabič (eds) *Procedia CIRP*. Elsevier B.V., pp. 168-173
- Ma, A, Nassehi, A & Snider, C, 2019, '[Anarchic Manufacturing](#)'. *International Journal of Production Research*, vol 57., pp. 2514-2530
- Leontaritis, A, Nassehi, A & Yon, J, 2019, '[Assessing the Effect of Geometric Error on the Performance of Magnetic Gears](#)'. in: *2019 IEEE International Electric Machines & Drives Conference (IEMDC), San Diego, CA, USA.*, pp. 1951-1958
- Li, X, Nassehi, A & Epureanu, B, 2019, '[Degradation-aware decision making in reconfigurable manufacturing systems](#)'. *CIRP Annals - Manufacturing Technology*.
- Asrai, RI, Newman, ST & Nassehi, A, 2018, '[A mechanistic model of energy consumption in milling](#)'. *International Journal of Production Research*, vol 56., pp. 642-659
- Nassehi, A, Schaefer, D, Wu, D, Xu, X & Zaeh, M, 2018, '[Special issue on 'Cyber-physical product creation for Industry 4.0'](#)'. *International Journal of Computer Integrated Manufacturing*, vol 31., pp. 611
- Nassehi, A & Colledani, M, 2018, '[A multi-method simulation approach for evaluating the effect of the interaction of customer behaviour and enterprise strategy on economic viability of remanufacturing](#)'. *CIRP Annals - Manufacturing Technology*, vol 67., pp. 33-36
- Goudswaard, M, Hicks, B, Gopsill, J & Nassehi, A, 2017, '[Objects manufactured by fused deposition modelling \(FDM\): Lessons from the design of three everyday artefacts](#)'. in: *Proceedings of the International Conference on Engineering Design, ICED.*, pp. 219-228
- Goudswaard, M, Hicks, B, Nassehi, A & Mathias, D, 2017, '[Realisation of self-replicating production resources through tight coupling of manufacturing technologies](#)'. in: *Proceedings of the International Conference on Engineering Design, ICED.*, pp. 31-40

[View complete publications list](#) in the University of Bristol publications system

## Courses

Dr Nassehi currently teaches 3 courses: