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## Qualifications

Doctor of Science (Technology), Mechanical Engineering  
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Doctor of Science (Technology)  
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## Research outputs

### Why to design modular products?

Pakkanen, J., Juuti, T., Lehtonen, T. & Mämmelä, J., 2022, *32nd CIRP Design Conference (CIRP Design 2022) - Design in a changing world*. Anwer, N. (ed.). Elsevier, p. 31-36 6 p. (Procedia CIRP; vol. 109).

### Linja-autot Kutter 9 ja Kutter Deca: Uuden tehtaan aika ja yrityksen loppu

Lehtonen, T., 2 Nov 2021, Lahti. 186 p.

### Metakognitiivinen näkökulma tuotekehityksen opetuksessa

Lehtonen, T., Rättyä, K., Juuti, T. & Pakkanen, J., 6 Sep 2021, *Opetuksen ja Oppimisen ytimessä: Ainedidaktisia tutkimuksia 19*. Luukka, E., Palomäki, A., Pihkala-Posti, L. & Hanska, J. (eds.). Vol. 19. p. 142-168 27 p. (Suomen ainedidaktisen tutkimusseuran julkaisuja; vol. 19).

### Observations on modular product structures based on teaching product modularisation

Pakkanen, J., Lehtonen, T. & Juuti, T., 2021, *31st CIRP Design Conference 2021 (CIRP Design 2021)*. Lutters, E. (ed.). Elsevier, p. 476-481 6 p. (Procedia CIRP; vol. 100).

### Support for Managing Partly Configurable Modular Systems

Pakkanen, J., Heikkinen, T., Adlin, N., Lehtonen, T., Mämmelä, J. & Juuti, T., 2021, *Proceedings of the 23rd International Conference on Engineering Design (ICED21)*. p. 2791-2800 10 p. (Proceedings of the Design Society; vol. 1).

### Partitioning Types in Product Modularisation

Pakkanen, J., Lehtonen, T. & Juuti, T., 11 Jun 2020, *Proceedings of the DESIGN 2020: 16th International Design Conference*. Cambridge University Press, p. 2325-2334 10 p. (Proceedings of the Design Society: DESIGN Conference; vol. 1).

### Conceptual model of modularisation

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### Lean Indicators for Small Batch Size Manufacturers in High Cost Countries

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### Value Creation Mechanisms of Modularisation in the Engineering Asset Life Cycle

Pakkanen, J., Juuti, T. & Lehtonen, T., 2020, *Engineering Assets and Public Infrastructures in the Age of Digitalization: Proceedings of the 13th World Congress on Engineering Asset Management*. Liyanage, J. P., Amadi-Echendu, J. & Mathew, J. (eds.). Springer, p. 846-854 9 p. (Lecture Notes in Mechanical Engineering).

### **Empirical study of good, bad and ugly modular engineering solutions in machinery manufacturing industry**

Juuti, T., Pakkanen, J. & Lehtonen, T., 26 Jul 2019, *Proceedings of the Design Society: International Conference on Engineering Design: The 22nd International Conference on Engineering Design, ICED19, Delft, The Netherlands, 5-8 August 2019*. Cambridge University Press, p. 2981-2990 10 p. (Proceedings of the Design Society: International Conference on Engineering Design ).

### **Circular economy in integrated product and production development education**

Lanz, M., Nylund, H., Lehtonen, T., Juuti, T. & Rattya, K., 2019, In: *Procedia Manufacturing*. 33, 33, p. 470-476 7 p.

### **Identifying and addressing challenges in the engineering design of modular systems – case studies in the manufacturing industry**

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### **From systematic design process towards teaching product designer's toolkit**

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Mämmelä, J., Juuti, T., Korhonen, T., Julkunen, P., Lehtonen, T., Pakkanen, J. & Vanhatalo, M., 17 Aug 2018, *Proceedings of the 2018 Norddesign conference (NDES2018): August 14-17, 2018, Linköping, Sweden..* Ekströmer, P., Schütte, S. & Ölvander, J. (eds.).

### **Value creation mechanisms in product variety development**

Pakkanen, J., Juuti, T. & Lehtonen, T., 21 May 2018, *DS92: Proceedings of the DESIGN 2018 15th International Design Conference*. Marjanović, D., Štorga, M., Škec, S., Bojčetić, N. & Pavković, N. (eds.). The Design Society, Vol. 2. p. 623-632 10 p. (DESIGN).

### **Pedagogical Content Knowledge in Product Development Education**

Juuti, T., Rättyä, K., Lehtonen, T. & Kopra, M-J., 2017, *Proceedings of the 19th International Conference on Engineering and Production Design Education, 2017, Oslo, Norway, 7th - 8th September 2017*. The Design Society, p. 483-488 6 p.

### **Suomalaiset ambulanssit**

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### **Suomen linja-autot - koriteollisuus 2000-luvulla**

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### **Achieving Benefits with Design Reuse in Manufacturing Industry**

Pakkanen, J., Huhtala, P., Juuti, T. & Lehtonen, T., 9 Aug 2016, *26th CIRP Design Conference*. Vol. 50. p. 8-13 6 p. (Procedia CIRP; vol. 50).

### **Brownfield Process: A method for modular product family development aiming for product configuration**

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### **Challenges and opportunities in capturing design knowledge**

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### **How to benefit from learning logs in engineering education?**

Juuti, T., Kopra, M. J., Rättyä, K. & Lehtonen, T., 2016, *44th Annual Conference of the European Society for Engineering Education - Engineering Education on Top of the World: Industry-University Cooperation, SEFI 2016*. European Society for Engineering Education SEFI

### **Leadership instead of grading - The new goals of assessment**

Lehtonen, T., Juuti, T., Vanhatalo, M., Kopra, M. J. & Rättyä, K., 2016, *44th Annual Conference of the European Society for Engineering Education - Engineering Education on Top of the World: Industry-University Cooperation, SEFI 2016*. European Society for Engineering Education SEFI, 8 p.

### **Learning logs in product development education**

Juuti, T., Rättyä, K. & Lehtonen, T., 2016, *Proceedings of the 18th International Conference on Engineering and Product Design Education: Design Education: Collaboration and Cross-Disciplinarity, E and PDE 2016*. p. 296-301 6 p.

### **Brownfield process for the rationalisation of existing product variety towards a modular product family**

Pakkanen, J., Juuti, T. & Lehtonen, T., 2015, *ICED 15, vol 7: Product Modularisation, Product Architecture, Systems Engineering, Product Service Systems*. Weber, C., Husung, S., Cascini, G., Cantamessa, M., Marjanovic, D. & Rotini, F. (eds.). The Design Society, Vol. 7. 10 p. (International Conference on Engineering Design).

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Juuti, T., Kopra, M.-J., Lehtonen, T., Tuokko, R. & Lanz, M., 2015, Tampere. 68 p.

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### **Product life cycle disposition model**

Halonen, N., Lehtonen, T., Pakkanen, J., Juuti, T., Ellman, A. & Riitahuhta, A., 2014, *Proceedings of the DESIGN 2014 13th International Design Conference, May 19-22, 2014, Dubrovnik - Croatia*. Majanovic, D., Storga, M., Pavkovic, N. & Bojcevic, N. (eds.). Croatia: The Design Society, p. 831-840 10 p.

### **Product strategies in merchant ship and airliner industries**

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### **Pyörät ja pyssyt**

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### **Retrospective study on teaching engineering design and product development**

Lehtonen, T., Juuti, T., Rättyä, K. & Vanhatalo, M., 2013, *E&PDE 2013, the 15th international conference on engineering and product design education, Design education - Growing our future, Dublin, Ireland, 5-6 September, 2013*. Bohemia, E., Ion, W., Kovacevic, A., Lawlor, J., McGrath, M., McMahon, C., Parkinson, B., Reilly, G., Ring, M., Simpson, R. & Tormey, D. (eds.). Glasgow: The Design Society, Institution of Engineering Designers, p. 414-419 6 p. (International Conference on Engineering and Product Design Education).

### **The module system and its requirements for PDM/PLM systems**

Pakkanen, J., Lehtinen, J., Juuti, T. & Lehtonen, T., 2013, *Proceedings of the PDM2013 conference, The 1st PDM Forum for Finland-Russia Collaboration, 24.-25.4.2013, Lappeenranta*. Huhtala, M. & Eskelinen, H. (eds.). Lappeenranta: Lappeenranta University of Technology, p. 91-97 7 p. (LUT Scientific and Expertise Publications. Tutkimusraportit; vol. 4).

### **Achieving integrated product and production development with knowledge creation and flow model**

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### **A Framework for evaluating applicability of design methodologies**

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### **Capturing the flows of the product process**

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### **A Framework for developing viable design methodologies for industry**

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### **Effects of team role assessment in problem based group work learning**

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### **Linja-autoliikennöitsijät ja tavaralinjaliikenne**

Lehtonen, T., 2011, *Yölinjalla*. Levä, K. (ed.). Mobilia, p. 58-65

### **Open Product Development**

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### **Pula-ajan bussit 1945-1956: Vuosien 1945-1956 uudet linja-autot**

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### **The goals of assessment**

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### **Linja-auto sotilaskuljetuksessa**

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### **Katurin vuosikymmen**

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### **Dynamics of product platform lifecycle and disposition management**

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### **Efficient platform utilisation with configurable products - Enabling factors illustrated**

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