

Suvi Nenonen  
Resource Agreement  
Civil Engineering  
Email: suvi.nenonen@tuni.fi



## Qualifications

Doctor of Philosophy, Teknillinen yliopisto TKK  
Award Date: 5 Dec 2005  
Qualified Teacher

## Employment

### Resource Agreement

Civil Engineering  
Tampere University  
1 Oct 2021 → present

### Expert

University Properties of Finland Ltd.  
Finland  
1 Mar 2017 → present

## Work Experience

2015 -2017 Newsec Asset Management Oy, Senior Consultant, part time position  
2007-2015BES Built Environment Services Ltd, (Former FSR Consulting Ltd, Principal Advisor, Part time work  
2005-2016 Aalto University , School of Engineering, Built Environment Services –Espoo, Finland  
Research manager, leading researcher and senior researcher  
2001 - 2005Turku University of Applied Sciences, Turku, Finland  
Senior Lecturer: Researcher and lecturer in the Degree Program in Production and Management of Services.  
During this period in 2003 Researcher in Graduate School for Real Estate and Facilities Management KIITO, Finland  
1997-2001Turku University of Applied Sciences, Turku Finland  
Senior lecturer: Head of Degree program in Production and Management of Services  
1995 - 1997Vocational Institute, Turku, Finland: Coordinator of education in hospitality management in secondary level vocational education

## Research output

### SARS-CoV-2:n tartunta ja leviäminen

Parkkila, S., Saari, S., Sormunen, P., Silander, H., Nenonen, S., Kakko, L. & Nuorti, P., Sep 2021, In: Duodecim: lääketieteellinen aikakauskirja. 137, 17, p. 1743-1749

### Distributed Academic Workplace and Community - towards a coherent campus within a city

Poutanen, J., Kotilainen, M., Hyökki, S., Urrila, L. & Nenonen, S., 16 Jun 2021, *The 20th EuroFM Research Symposium 16-17 June 2021: Research papers*. Jylhä, T. (ed.). p. 51-62 12 p.

### The reconfiguration of social, digital and physical presence: from online church to church online

Cooper, A. P., Laato, S., Nenonen, S., Pope, N., Tjiharuka, D. & Sutinen, E., Jun 2021, In: *HTS Teologiese Studies / Theological Studies*. 77, 3, a6286.

### Design science and co-designing of hybrid workplaces

Lahti, M. & Nenonen, S., Mar 2021, In: *Buildings*. 11, 3, 129.

### **Co-working, co-learning and culture – co-creation of future tech lab in Namibia**

Lahti, M., Nenonen, S. P. & Sutinen, E., 2021, (E-pub ahead of print) In: Journal of Corporate Real Estate.

### **Co-designing a European Future Tech Lab in Africa as a Place for Open Innovation**

Lahti, M., Shivoro, R., Kaisto, T., Mufeti, K., Nenonen, S. & Sutinen, E., May 2020, *2020 IST-Africa Conference, IST-Africa 2020*. IEEE, 9144070. (2020 IST-Africa Conference, IST-Africa 2020).

### **Participatory service design and community involvement in designing future-ready sustainable learning landscapes**

Sandström, N., Nevgi, A. & Nenonen, S., 2 Sep 2019, *SBE 19 - Emerging Concepts for Sustainable Built Environment 22–24 May 2019, Helsinki, Finland*. IOP Publishing, (IOP Conference Series: Earth and Environmental Science; vol. 297).

### **Environmental and social sustainability–emergence of well-being in the built environment, assessment tools and real estate market implications**

Danivska, V., Heywood, C., Christersson, M., Zhang, E. & Nenonen, S., 2019, (E-pub ahead of print) In: Intelligent Buildings International.

### **The workplaces of researchers in different disciplines**

Huhtelin, M. T. & Nenonen, S., 2019, In: Journal of Corporate Real Estate. 21, 1, p. 36-54

### **Towards digital campus – improving usability of learning environments**

Nenonen, S., Sandström, N., Nevgi, A., Danivska, V. & Jalo, H., 2019, *CIB World Building Congress 2019: 17-21, June, 2019, The Hong Kong Polytechnic University, Hong Kong, China*. Hong Kong, 11 p.

### **Towards low carbon economy - Green bond and asset development**

Nenonen, S., Koski, A., Lassila, A. P. & Lehtikoinen, S., 2019, In: IOP Conference Series: Earth and Environmental Science. 352, 1, 012028.

### **Työn muotoilu mobiilissa ja monipaikkaisessa työssä**

Roininen, M. (ed.), Hyrkkänen, U., Vartiainen, M., Vanharanta, O., Kuusisto, H., Granberg, A., Nenonen, S., Jalo, H., Vanhatalo, J., Harju-Myllyaho, A., Jussila, M., Puro, A., Sipponen, M., Ranta, A., Purokuru, V., Juoperi, O-P., Palmgren, H., Heiniö, M., Valtanen, E. & Kaleva, S., 2019, Turun ammattikorkeakoulu. 67 p. (Turun ammattikorkeakoulun raportteja; no. 261)

### **From walls to experience – servitization of workplaces**

Petrolaitiene, V., Korba, P., Nenonen, S., Jylhä, T. & Junnila, S., 2 Jul 2018, In: Facilities. 36, 9-10, p. 525-544 20 p.

### **A call for co-working – users' expectations regarding learning spaces in higher education**

Sankari, I., Peltokorpi, A. & Nenonen, S., 2018, In: Journal of Corporate Real Estate. 20, 2, p. 117-137 21 p.

### **Guest editorial**

Nenonen, S., 2018, In: Journal of Corporate Real Estate. 20, 2, p. 82-83 2 p.

### **Palvelu korvaa tilan (PATI)**

Petrolaitiene, V., Pia, K., Junnila, S., Nenonen, S., Vasell, T., Jääskeläinen, A. & Horstia, J., 2018, Aalto University.

### **Proceedings of the 1st Transdisciplinary Workplace Research Conference**

Nenonen, S. (ed.), Salmisto, A. (ed.) & Petrolaitiene, V. (ed.), 2018, Tampere University of Technology. Department of Civil Engineering. 64 p. (Tampereen teknillinen yliopisto. Rakennustekniikan laboratorio. Rakennustuotanto ja -talous. Raportti; no. 26)

### **Special Issue: Strategic campus management**

Nenonen, S. (Guest ed.), 2018, In: Journal of Corporate Real Estate. 20, 2

### **Ways to measure user experience in co-working places**

Horstia, J., Vasell, T., Nenonen, S. & Helander, N., May 2017, *European facility management network EFMC2017: 25-28 April 2017, Madrid, Spain*. Balslev Nielsen, S., Anker Jensen, P. & Brinkø, R. (eds.). Denmark, p. 158-169 12 p.

### **Nordic workplace concept development from office as a city to city as an office**

Nenonen, S. P. & Lindahl, G., 2017, In: *Journal of Facilities Management*. 15, 3, p. 302-316 15 p.

### **Towards responsive workplaces – identifying service paths for time- and place-independent work**

Petrolaitiene, V., Rytönen, E., Nenonen, S. & Jylhä, T., 2017, In: *Journal of Corporate Real Estate*. 19, 3, p. 144-156 13 p.

### **Alternative learning environments by alternative retrofitting processes**

Nenonen, S., Eriksson, R., Niemi, O., Junghans, A., Balslev Nielsen, S. & Lindahl, G., 1 Aug 2016, *Proceedings of CFM's Second Nordic Conference: Facilities Management Research and Practice: 29.8. - 30.8.2016, Lyngby, Denmark*. Jensen, P. A. (ed.). Polyteknisk Forlag, p. 26-36 11 p.

### **How can FM service providers improve their service delivery through value co-creation?**

Petrolaitiene, V., Rytönen, E. & Nenonen, S., 1 Aug 2016, *Facilities management research and practice: does FM contribute to happiness in Nordic countries?: CFM Second Nordic Conference, 29-30 August 2016, Lyngby, Denmark*. Anker Jensen, P. (ed.). Technical University of Denmark, p. 79-88 10 p.

### **Third places and user preferences – affordances in the cities**

Nenonen, S., Rahtola, R. & Kojo, I., 1 Aug 2016, *Proceedings of CFM's Second Nordic Conference: Facilities Management Research and Practice, 29-30 AUGUST 2016, Denmark*. Jensen, P. A. (ed.). p. 17-25 9 p.

### **Proceedings of the CIB World Building Congress 2016: Volume IV - Understanding Impacts and Functioning of Different Solutions**

Nenonen, S. (ed.) & Junnonen, J-M. (ed.), 27 May 2016, Tampere University of Technology. Department of Civil Engineering. 718 p. (Tampere University of Technology. Department of Civil Engineering. Construction Management and Economics. Report; vol. 18)

### **Campus retrofitting (CARE) methodology: a way to co-create future learning environments**

Nenonen, S., Eriksson, R., Niemi, O., Junghans, A., Nielsen, S. B. & Lindahl, G., 2016, *Proceedings of the 20th CIB World Building Congress 2016: May 30-June 3, 2016, Tampere, Finland*. p. 738-749 12 p.

### **How is it sustainable? Identifying key indicators for sustainable educational design**

Sandström, N., Hytti, V., Nenonen, S. & Lonka, K., 2016, *10th INTED 2016 Conference Proceedings: 7-9 March, 2016, Valencia, Spain*. Gómes Chova, L., López Martínez, A. & Candel Torres, I. (eds.). p. 4217-4219 3 p. (INTED proceedings).

### **Identifying and measuring customer value - case multi-locational worker**

Vasell, T., Vuolle, M., Petrolaitiene, V., Nenonen, S. & Jylhä, T., 2016, *Research papers for EuroFM's 15th research symposium at EFMC2016: 8-9 June 2016 in Milan, Italy*. Nielsen, S. & Jensen, P. A. (eds.). p. 143-151 9 p.

### **Identifying and measuring customer value: Case multi-locational worker**

Nenonen, S., Vasell, T., Vuolle, M., Jylhä, T. & Petrolaitiene, V., 2016.

### **Perspective of Social Usability in the Change Processes of an Academic Workplace**

Kostiainen, E. & Nenonen, S., 2016, *Proceedings of the CIB World Building Congress 2016: Volume II - Environmental Opportunities and Challenges. Constructing Commitment and Acknowledging Human Experiences*. Tampere University of Technology. Department of Civil Engineering, p. 688-701

### **Spatial borders and affordances of a temporary school building – Enhancing the school engagement and learning experience**

Airo, K., Vaara, L. & Nenonen, S., 2016, *Proceedings of the CIB World Building Congress 2016: Volume II - Environmental Opportunities and Challenges. Constructing Commitment and Acknowledging Human Experiences*. Tampere University of

Technology. Department of Civil Engineering, p. 715-725

**Specification and empirical exploration of a usability concept in the workplace.**

Windlinger Inversini, L., Nenonen, S. & Airo, K., 2016, In: *Facilities*. 11, 12, p. 649-661 13 p.

**The Workplace for Researchers – Enhancing Concentration and Face-to-face Interaction**

Huhtelin, M. & Nenonen, S., 2016, *Proceedings of the CIB World Building Congress 2016: Volume I - Creating built environments of new opportunities*. Tampere University of Technology. Department of Civil Engineering, p. 753-764

**Towards responsive workspaces - identification of service paths for time-and-place independent work**

Petrolaitiene, V., Rytönen, E. & Nenonen, S., 2016, *Proceedings of the 20th CIB World Building Congress 2016: May 30 – June 3, 2016 Tampere Finland*. Achour, N. (ed.). Tampere University of Technology, Vol. V. p. 1141-1151 11 p.

**Typologies for coworking places in Finland - what and how?**

Kojo, I. & Nenonen, S., 2016, In: *Facilities*. 34, 5/6, p. 302 - 313 11 p.

**Usability and affordances for inquiry-based learning in a blended learning environment**

Sandström, N., Eriksson, R., Lonka, K. & Nenonen, S., 2016, In: *Facilities*. 34, 7-8, p. 433-449 16 p.

**User experience of creative class district: Punavuori neighborhood**

Tähtinen, S., Kojo, I. & Nenonen, S., 2016, In: *Facilities*. 34, 9/10, p. 580–594 14 p.

**A Co-creation Centre for University–Industry Collaboration – A Framework for Concept Development**

Huhtelin, M. & Nenonen, S., 2015, In: *Procedia Economics and Finance*. 21, p. 137 - 145

**Acoustics and new learning environment - A case study**

Pääkkönen, R., Vehviläinen, T., Jokitulppo, J., Niemi, O., Nenonen, S. & Vinha, J., 2015, In: *Applied Acoustics*. 100, p. 74-78 5 p.

**Nordic campus retrofitting concepts – scalable practices**

Eriksson, R., Nenonen, S., Junghans, A., Nielsen, S. & Lindahl, G., 2015, In: *Procedia Economics and Finance*. 21

**Process dynamics of managing interdisciplinary, cross-organizational learning campus in change: Case Aalto University**

Rytönen, E., Nenonen, S., Österlund, E. & Mojo, I., 2015, In: *Facilities*. 33, p. 752-772 21 p.

**Scaling spatial transformation: smart specialization of urban capabilities in the Helsinki region**

Niemi, R., Rytönen, E., Eriksson, R. & Nenonen, S., 2015, In: *Technology Innovation Management Review*. 5, 10/2105, p. 42-51 10 p.

**Shared use of research laboratories Changing spatial concepts: A Case Study in a Finnish Biomedical Organization**

Yläoutinen, J., Peltoniemi, S. & Nenonen, S., 2015, *Conference on Research on Health Care Architecture: ARCH 14 Conference Proceedings November 19-21, 2014, Espoo, Finland*. Helsinki, p. 183-197 15 p. (Aalto University publication series ART + DESIGN + ARCHITECTURE, 6/2015).

**Finland – R&D functions in real estate and the construction industry**

Nenonen, S., Airaksinen, M. & Vainio, T., 1 Jan 2014, *R and D Investment and Impact in the Global Construction Industry*. Taylor and Francis Ltd., p. 98-114 17 p.

**Facilities management research in Finland - state-of-art about current Finnish PhD-projects**

Nenonen, S. & Sarasoja, A. L., Jan 2014, In: *Facilities*. 32, 1-2, p. 58-66 9 p.

**Review of linguistic approach in the workplace management research**

Airo, K. & Nenonen, S., Jan 2014, In: *Facilities*. 32, 1-2, p. 27-45 19 p.

### **Evolution of co-working places: drivers and possibilities**

Kojo, I. & Nenonen, S., 2014, In: Intelligent Buildings International. 11, p. 1-12 12 p.

### **Places for multi-locational work - opportunities for facilities management.**

Kojo, I. V. I. & Nenonen, S., 2014, In: Facilities. 33, 1/2, p. 20-37 17 p.

### **Rehabilitation Centers in Change: Participatory Methods for Managing Redesign and Renovation**

Lahtinen, M., Nenonen, S., Rasila, H., Lehtelä, J., Ruohomäki, V. & Reijula, K., 2014, In: HERD: Health Environments Research and Design Journal. 7, p. 57-75 18 p.

### **The Business Model Canvas in University Campus Management**

Rytkönen, E. & Nenonen, S., 2014, In: Intelligent Buildings International. 6, 3, p. 138-154 16 p.

### **Role configurations in the service provision process: Empirical insights into co-creation of value**

Siltaloppi, J. & Nenonen, S., 17 Jun 2013, In: INTERNATIONAL JOURNAL OF QUALITY AND SERVICE SCIENCES. 5, 2, p. 155-170 16 p.

### **User satisfaction on a university campus by students and staff**

Kärnä, S., Julin, P. & Nenonen, S., 2013, In: Intelligent Buildings International. 5, 2, p. 69-82 13 p.

### **Work environment preferences - does age make a difference?**

Rothe, P., Lindholm, A. L., Hyvönen, A. & Nenonen, S., Jan 2012, In: Facilities. 30, 1, p. 78-95 18 p.

### **Exploring facilities management - Towards future campuses**

Rytkönen, E., Nenonen, S. & Kärnä, S., 2012, *Proceedings of the 40th SEFI Annual Conference 2012 - Engineering Education 2020: Meet the Future*. European Society for Engineering Education SEFI

### **Speech as a way of constructing change in space: Opposing and conforming discourses in workplace change process**

Airo, K., Rasila, H. & Nenonen, S., 2012, In: Facilities. 30, 7/8, p. 289 - 301 12 p.

### **User preferences of office occupiers: investigating the differences**

AppelMuelenbroek, R., Rothe, P., Nenonen, S., Lindholm, A. L. & Hyvönen, A., 31 May 2011, In: Journal of Corporate Real Estate. 13, 2, p. 81-97 17 p.

### **The virtual workplace of a mobile employee - How does Vischer's model function in identifying physical, functional and psychosocial fit?**

Hyrkkänen, U. & Nenonen, S., 2011, *Human-Computer Interaction: Towards Mobile and Intelligent Interaction Environments - 14th International Conference, HCI International 2011, Proceedings*. PART 3 ed. Vol. 6763 LNCS. p. 69-75 7 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 6763 LNCS, no. PART 3).

## **Projects**

### **SED: SED Sustainable Education Design**

Kähkönen, K. & Nenonen, S.

1/08/15 → 31/12/17

## **Supervised doctoral thesis**

2016Rytkönen Eelis: University Campus Management Dynamics in Spatial Transformation: Systemic Facilitation of Interdisciplinary Learning Communities, Aalto University, Finland.

2015Rothe Peggie: Is There Method in the Madness – Exploring Short-Distance Relocation Processes. Aalto University, Finland.

2014 Airo Kaisa: Workplace and Language – Constructing the User Experience of Office Space. Aalto University, Finland.  
2010 Rasila Heidi: Customer Experience in a Landlord-Tenant Relationship. University of Technology. Tampere. Finland.

## Doctoral defences

12.4.2016 Fronczek-Munter Aneta: Introducing Usability Briefing for hospital design – Capturing user needs and experiences to improve complex buildings. DTU, Denmark  
28.10.2015 Klungseth Nora Johanne: Cleaning services in local authorities. NTNU, Norway  
26.4.2013 Hedgren Erika: Overcoming Organizational Lock-in in Decision-making: Construction Clients Facing Innovation, Luleå, University of Technology, Sweden  
13.5.2013 Akarapong Katchamart (Palm): Profiling Value Added Positions in Facilities Management, Technical University of Denmark, Denmark  
15.6.2013 Randelin Marja: Sustainable Well-being at Work through Ergonomics via the Web-based Learning Program of Ergonetti. University of Eastern Finland, Finland

## Evaluation of academic competence

2016 Evaluation of Sofie Lidelö, promotion to Senior University Lecturer Technical University of Luleå, Sweden  
2015 Scientific evaluation of Marie Elf, promotion to Adjunct Professor, Chalmers University of Technology, Sweden  
2013 Evaluation of Antje Junghans, promotion to Professor, NTNU, Norway

## Reviewer in Journals

2016 Nordic Journal of Architectural Research  
2014 Health Environments Research & Design Journal  
2009-Journal of Corporate Real Estate  
2005-The Finnish Journal of Business Economics  
2005-Facilities

## Member of Scientific Committee

2013-2017 EFMC 2013-2017, European Facilities Management Conference  
2016 CIB World Building Congress  
Nordic FM Conference, Copenhagen  
2015 8th Nordic Conference on Construction Economics and Organisation  
2013 SB 2013 Sustainable Building Conference; 7th Nordic Conference on Construction Economics and Organisation  
2012 WIS 2012 Conference Well-Being in the Information Society  
2011 Nordic FM Conference, Copenhagen  
2010 SB2011 Helsinki, World Sustainable Building Conference  
2008 CIB W70 International Conference in Facilities Management  
2006 CIB W70 Trondheim International Symposium.

## Board Member

2017-Management Team Member: RESTORE COST action, EU  
2012 - Board Member of CREON network (Construction Researchers on Economics and Organisation in the Nordic region)  
2010 - Board Member of FIFMA (International Facility Management Association, Finland)  
2008 – 2010 Chairman of Nordic FM network  
2007-Member of New ways of work network, Silicon Valley, USA  
2002-2005 Chairman of EuroFM Education network group 2002-2005  
2002-2006 Board member of NordicFM network project (NICE)  
2004- Member of CIB W111 Usability of Workgroup (former TG51)

## Former Projects

PATI Space as a Services, Volume 95 000 €, Duration 2014 -2017, Finnish Funding Agency for Innovation, Tekes,  
JOT – Flexible Learning Environments, Volume 75. 0000 €, Duration 2014-2015, Board of Education, Finland  
CARE Campus Retrofitting, 75.000 €, Duration 2014-2016, Finnish Funding Agency for Innovation, Tekes,  
SIC Sustainable Innovation Ecosystems Volume 300 000 €, Duration 2012- 2015, RYM oy, Built Environment Innovations, Research Manager, main author of the work package  
Future Learning Environments Volume 400 000 €, Duration 2010-2014, RYM oy, Built Environment Innovations, Research Manager, main author of the work package  
Repbu, Relocation Business Volume 300 000 €, Duration 2010-2013, Finnish Funding Agency for Innovation, Tekes, Research Manager, co- author of the research plan  
KYKY Serviceability of Urban Areas Volume 300.000 €, Duration 2011-2013, Finnish Funding Agency for Innovation, Tekes, Research Manager, co- author of the research plan  
KUNTO Developing the processes and spatial planning in rehabilitation centers of Finland, Volume: 180.000 €, Duration

2010-2013, Finnish Funding Agency for Innovation, Tekes, Research Manager, co- author of the research plan  
TOTI User oriented offices, Volume: 280.000 €, Duration 2009-2012, Finnish Funding Agency for Innovation, Tekes, Research Manager, co- author of the research plan  
Indospace Usability of industrial facilities, Volume: 280.000 €, Duration 2009-2012, Finnish Funding Agency for Innovation, Tekes, Research Manager, co- author of the research plan  
Work+Life Developing service solutions to buildings and areas. Volume 180.000 €, €, Duration 2009-2012, Finnish Funding Agency for Innovation, Tekes, Research Manager, co- author of the research plan  
KAVERI Developing the rating tool to assess usable sustainability of shopping centres, Volume: 180.000 €, Duration 2010-2012, Finnish Funding Agency for Innovation, Tekes, Research Manager, co- author of the research plan  
PREFE Office occupiers' preferences and needs in a changing business environment, Volume: 400.000 €, Duration 2008-2010, Finnish Funding Agency for Innovation, Tekes, Research Manager, co- author of the research plan  
ASI Customer-orientated and innovative real estate and facilities services Volume: 150.000 €, Duration 2008-2010, Finnish Funding Agency for Innovation, Tekes, Research Manager, co- author of the research plan  
SIN Situated Innovations Volume: 40.000 €, Duration 2008-2010, Finnish Funding Agency for Innovation, Tekes, Research Manager, co- author of the research plan  
Prowork project, Productivity of knowledge work Volume: 928.000 €, Duration: 2007-2009, Finnish Funding Agency for Innovation, Tekes, Research Manager, main author of the research plan  
USAB Usability Rating of Shopping centres, Volume: 400.000 € Duration 2007-2008, Finnish Funding Agency for Innovation, Tekes, Research Manager, co- author of the research plan  
REBUS: Propal 2, Volume: 220.000 € Duration: 2008-2009, Finnish Funding Agency for Innovation, Tekes and Nordic Innovation Center, Research Manager, co- author of the research plan  
Future workplaces, Volume: 82.000 € Duration: 2009, Finnish Funding Agency for Innovation, Tekes, Research Manager, co-author of the research plan  
Third generation of business parks, Volume: 300.000 €, Duration 2006-2008, Finnish Funding Agency for Innovation, Tekes, Research Manager, main author of the research plan  
The Workplace change in a University building – Aalto, Volume 50.000 Duration: 2007, Helsinki University of Technology, Research Manager, main author of the research plan  
Usability of traffic centres Volume: 30.000 € Duration: 2007, City of Helsinki, Research Manager, main author of the research plan  
Usability of service providers in school building, Volume: 12.000 € Duration 2007, Finnish Funding Agency for Innovation, Tekes, Research Manager, co- author of the research plan  
Competence Mapping for Workplace research Spaces-technology program, Volume: 10.000 €, Duration 2007 Finnish Funding Agency for Innovation, Tekes, Research Manager, co- author of the research plan  
People flow experience, Volume: 18.000 €, Duration: 2008, Kone Ltd, Research Manager, co- author of the research plan