

Curriculum vitae with track record(for established researchers)

PERSONAL INFORMATION

Family name, First name: Novakovic, Vojislav

Date of birth: 01.03.1953

Sex: male

Nationality: Norwegian

Researcher unique identifier: ORCID identifier: 0000-0001-9712-5405

URL for personal web site: <https://www.ntnu.edu/employees/vojislav.novakovic>

EDUCATION

1982 PhD: Thesis: "Digital Control of Heating Coils" Disputation date: 28.01.1982.

Department of Mechanical Engineering, Norwegian Institute of Technology, Norway.

1977 Master

Faculty of Mechanical Engineering, University of Belgrade, Serbia.

CURRENT AND PREVIOUS POSITIONS

1994-present Professor

Department of Energy and Process Engineering, Norwegian University of Science and Technology (NTNU), Norway

1990-1994 Adjunct Professor

Department of HVAC Engineering, Norwegian Institute of Technology, Norway.

1983-1994 Researcher, Research Manager, Senior Researcher, Scientific adviser.

SINTEF Applied Thermodynamics, SINTEF Energy Research, Norway

FELLOWSHIPS, AWARDS AND PRIZES

2016 Plaque of Appreciation for contribution to development of the Faculty, Faculty of Mechanical Engineering, University of Banja Luka, Bosnia and Herzegovina

2013-present Appointed Visiting professor, University of Belgrade, Faculty of Mechanical Engineering, Serbia

2011 REHVA Professional Award for outstanding achievements in science and the improvements of energy efficiency and the indoor environment of buildings, The Federation of European Heating, Ventilation and Air Conditioning associations, Belgium

- 2010 Honorary Member, Norwegian Society of HVAC Engineers – NORVAC, Norway
- 2005 KGH Plaque of Appreciation for contribution to development of the HVAC science and practice, KGH - Serbian Journal for Heating, Refrigeration and Air-Conditioning, Serbia
- 2005 ASHRAE Fellow, American Society of Heating, Refrigerating and Air-Conditioning Engineers, USA
- 2003 Plaque of Appreciation for contribution to development of the Faculty, Faculty of Mechanical Engineering, University of Belgrade, Serbia

MOBILITY (research stays abroad lasting more than three months)

- 2015 (4 mnts) Visiting scholar, Shanghai Jiao Tong University, Shanghai, PR China
- 2014 (4 mnts) Visiting scholar, Lawrence Berkeley National Laboratory, Berkeley, CA, USA
- 2005 (4 mnts) Visiting scholar, Faculty of Mechanical Engineering, University of Belgrade, Serbia.

SUPERVISION OF GRADUATE STUDENTS AND RESEARCH FELLOWS

- 1990-present Number of: Postdoc: 5, PhD: 5, Master Students: approximately 100
 Department of Energy and Process Engineering, Norwegian University of Science and Technology, Norway

TEACHING ACTIVITIES

- 1990-present Lecturer and/or Responsible teacher for MSc courses: Energy management in buildings, HVAC Engineering, Building automation, Energy and the environment, and PhD courses: Simulation and optimization of thermal systems, Modelling energy and indoor environmental systems, Zero emission buildings.

Department of Energy and Process Engineering, Norwegian University of Science and Technology, Norway.

ORGANISATION OF SCIENTIFIC MEETINGS

- 2011 President of the organizing committee, 12th International Conference on Air Distribution in Rooms, Trondheim, Norway. Numner of participants: 300.
- 2003 President of the organizing committee, 4th International Conference Cold Climate HVAC, Trondheim, Norway. Numner of participants: 150.

INSTITUTIONAL RESPONSIBILITIES

- 1998-present Chair and Member of the Board for the MSc study programme: Energy and the environment, Norwegian University of Science and Technology, Norway.

PROJECT MANAGEMENT EXPERIENCE

2014-2017 Project leader and Scientific responsible, The collaborative project inside HERD Energy: "Quality Improvement of Master programs in Sustainable Energy and Environment". (HERD - The Norwegian Programme in Higher Education, Research and Development in the Western Balkans)

2010-2014 Project leader and Scientific responsible, The collaborative project inside HERD Energy: "MSc Study Program: Sustainable Energy and Environment in Western Balkans".

2006-2010 Project leader and Scientific responsible, The collaborative project the Norwegian Programmer for South East Europe: "PhD Program: Sustainable Energy and Environment in Western Balkans".

2005-2012 Project leader and Scientific responsible, "Norwegian National Program for Life-Time Commissioning of Buildings"

COMMISSIONS OF TRUST

Opponent at doctorate defenses at LTH, Lund, Sweden (1990), DTH, Denmark (1993), KTH, Stockholm, Sweden (1996, 2000), Chalmers, Gothenburg, Sweden (2005, 2008), Hong Kong Polytechnic University, Hong Kong (2009, 2011) and NTNU (2001, 2002, 2005, 2007, 2008, 2012, 2014)

MEMBERSHIPS OF ACADEMIES / SCIENTIFIC SOCIETIES

Since 1989 American Society of Heating, Refrigerating and Air-Conditioning Engineers – ASHRAE, USA

Since 1983 The Norwegian Society of HVAC Engineers – NORVAC, Norway

Since 1982 Serbian Society for Heating, Refrigeration and Air-Conditioning – SMEITS-KGH, Serbia

MAJOR COLLABORATIONS

2018-2021 IEA - Programme for Energy in Buildings and Communities, Annex 79: Occupant-Centric Building Design and Operation, Leader of the Norwegian national team.

2014-2017 IEA - Programme for Energy in Buildings and Communities, Annex 66: Definition and Simulation of Occupant Behavior in Buildings, Leader of the Norwegian national team.

2004-2013 ISO/TC 163/SC 2 'Thermal performance and energy use in the built environment Calculation methods', Chairman of the Sub-Committee TC 163/SC 2.

2009-2013 IEA - Programme for Energy Efficiency in Communities and Buildings, Annex 53: Total Energy Use in Buildings: Analysis & Evaluation Methods – Leader of the Norwegian national team.

2005-2009 IEA - Programme for Energy Efficiency in Communities and Buildings, Annex 47: Cost-Effective Commissioning for Existing and Low Energy Buildings, Leader of the Norwegian national team.

Track record

1. The total number of publications during the career: 300
2. A list of up to ten publications:
 1. Dziedzic, J. W.; Yan, D.; Novakovic, V.: Indoor occupant behaviour monitoring with the use of a depth registration camera. *Building and Environment*. 2019. vol. 148. Number of citations 4.
 2. Dziedzic, J. W.; Novakovic, V.: Occupant behavior modeling based on migration registration technique. *IOP Conference Series: Materials Science and Engineering*. 2018. vol. 415 (1). Number of citations 0.
 3. Sretenovic, A.; Jovanovic, R.; Novakovic, V.; Nord, N.; Zivkovic, B.: Support vector machine for the prediction of heating energy use. *Thermal Science*. 2018. vol. 22 (4). Number of citations 1.
 4. Dziedzic, J. W.; Yan, D.; Novakovic, V.: Occupant migration monitoring in residential buildings with the use of a depth registration camera. *Procedia Engineering*. 2017. Vol. 205. Number of citations 9.
 5. Kardaš, D.; Janjic, G.; Gvero, P.; Novakovic, V.; Anderson, M. K.; Beleslin, T. P.: Teamwork as Experience Based Learning at University of Banja Luka: A Long and Winding Road. *Journal of International Scientific Publications: Educational Alternatives*. 2017. Vol. 15. Number of citations 0.
 6. Dar, U. I.; Georges, L.; Sartori, I.; Novakovic, V.: Influence of occupant's behavior on heating needs and energy system performance: A case of well-insulated detached houses in cold climates. *Building Simulation*. 2015, Vol. 8 (5). Number of citations 17.
 7. Sun, X.; Dai, Y.; Novakovic, V.; Wu, J.; Wang, R.: Performance Comparison of Direct Expansion Solar-assisted Heat Pump and Conventional Air Source Heat Pump for Domestic Hot Water. *Energy Procedia*. 2015, Vol. 70. Number of citations 32.
 8. Dar, U. I., Sartori, I., Georges, L., Novakovic, V.: Advanced control of heat pumps for improved flexibility of Net-ZEB towards the grid. *Energy and Buildings*. 2014, Volum 69., Pages 74-84. Number of citations 65.
 9. Georges, L., Skreiberg, Ø., Novakovic, V.: On the proper integration of wood stoves in passive houses under cold climates. *Energy and Buildings*. 2014; Volume 72., Pages 87-95. Number of citations 30.
 10. Georges, L., Skreiberg, Ø., Novakovic, V.: On the proper integration of wood stoves in passive houses: Investigation using detailed dynamic simulations, *Energy and Buildings*. 2013, Volume 59., Pages 203-213. Number of citations 25.
3. Research monographs and any translations thereof
 1. Hestnes, A.G., Eik-Nes, N.L. (edt.): *Zero Emission Buildings*, Fagbokforlaget 2017, ISBN: 978-82-450-2055-7, Co-author.
 2. Andresen, I., Kleiven, T., Malvik, B., Ryghaug, M. (edt.): *Smarte energieffektive bygninger (Smart Energy Efficient Building)*, Tapir Akademisk Forlag 2007, ISBN 978-82-519-2237-1, Co-author.
 3. *Enøk i bygninger – effektiv energibruk (Efficient use of energy in buildings)*; ISBN 82-00-40909-0; 1st edition 1992; 2nd edition 1996; 3rd edition 2007, Chief editor and co-author.