

# Volodymyr V. Kovalchuk



Director  
of the Computer Science Technology College  
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**Born:** July 17, 1959, Krivoy Rog, Ukraine

## **Interests:**

- Electronic and Vibrational Properties of Nano Clustered Hetero Structures
- Semiconductor Nano Electronics and Nano Technologies
- Nanocluster Subsystem and Self-organization one
- Theory of Quantum Computer
- Mathematical and Computer Modelling
- System Theory and System Analysis
- Intellectual Systems

**Languages:** Ukrainian, Lithuanian, English, German, Polish, Russian

## **Education and Stage**

- Dnepropetrovsk State University, Faculty of Physics & Theoretical Physics Chair, 1976-1981
- Dr. Sc. (Candidate of Science in former USSR, Ph.D., *physics & mathematics, semiconductor physics*), State University, Odessa, Ukraine, 1988  
Thesis: *Quantum-chemical simulation of the real Silicon's Clusters*
- Dr. Habil. Phys. (Doctor of Science in former USSR, *physics & mathematics, solid state physics*), State University, Dnepropetrovsk, Ukraine, 2010  
Thesis: *Solid State Structures on the bases of Silicon with nanocluster subsystem.*
- Grant DAAD (GSI, Heidelberg, Germany, 1996, 2000)
- Grant Soros's (Waterloo University, Canada, 1995)
- Grant ESF (Lausanne University, Switzerland, 1998),
- Grant ESF (München University, Germany, 1999)
- Grant ECC (Opole Higher Admin School, Poland, 2015-2018)
- Cooperation agreement for Academician Workstation of Weihai Zhirong Information Technology Co., China (2019-2022),

## **Experience**

- Assistant Professor Physics & Mathematics Department, *Pedagogical Institute, Krivoy Rog, Ukraine*, 1981-1984

- Post Graduate Student of the Theoretical Physics Department, *Semiconductor Physics Institute National Academy of Science, Kiev, Ukraine, 1984-1986*
- Assistant Professor, Senior Lecturer Theoretical Physics Chair, *South Ukrainian Pedagogical University, Odessa, Ukraine, 1987-1997, 2000-2003*
- Post Doc of the Theoretical Physics Chair, *South Ukrainian Pedagogical University, Odessa, Ukraine, 1997-2000*
- Head of Theoretical Physics Chair, *South Ukrainian Pedagogical University, Odessa, Ukraine, 2003-2008*
- Head of Information Technology System Chair, *Institute of the Measuring Technics, Odessa, Ukraine, 2008-2011*
- Head of Fundamental and Nature Science Chair, *Military Academy, Odessa, Ukraine, 2011-2013*
- Director of the Computer Science Technology College, *Environmental State University, Odessa, Ukraine, 2013-present*
- Professor of the Automatic Systems of the Monitoring of the Surrounded Environment Chair, *Environmental State University, Odessa, Ukraine, 2011-present*

### ***Professional Activities and Memberships***

- Member of Engineering Academy of Ukraine (since 2015 to pr.)
- The Vice-Member of Engineering Academy of Ukraine (2014-2015)
- The Member of Engineering Academy of Ukraine (2015-present)

Director of Study programs:

- Master level study program *Computer Simulation of Semiconductor Technologies* and Bachelor level *Semiconductor Electronics and Semiconductor Technologies* (1999-2002)
- Bachelor level study program *Computer Technologies Management* (2003)
- Master level study program *Statistical Methods in Psychology* (2003-2008)
- Master level professional study program *Information and Measured systems* (2008-2011)
- Master level professional study program *Applied electronics computing systems* (2012 - 2013)
- Master level professional study program *Quantum Computer Nano Systems* (2009-2011)

Coordinator and head of Program Committee:

- International Conference *Information Technologies and Management*
- International Conference *Open Learning and Distance Education*

### ***Courses***

*Odessa Pedagogical University (till 2008):*

- Theoretical Physics: Theoretical Mechanics, Electrodynamics, Quantum Mechanics and Optics, Statistical Physics, Atoms and Nuclear Physics
- Physics of Semiconductors
- Solid State Physics
- Modelling of Semiconductor Devices
- Optical Systems of Memory and Communication
- Methods of Mathematical Physics
- Statistical Methods in Psychology

*Odessa Institute of the Measuring Technics (2008-2011)*

- Computer Modelling of Solid State Devices: HeteroStructures and Hetero Transition
- System's analyses
- Theory of the Information System
- Nanotechnology and NanoSystem
- Quantum Computer: Theory

- Statistical Methods in Psychology

*Odessa Military Academy (2011-2013)*

- General Physics
- Statistics
- Computer Modeling
- Scientific prognostication
- Quantum and Statistical Physics

*Environmental State University, Odessa (2011-present)*

- General Physics
- System Theory
- System Analyses
- Quantum Computer: Theory
- Intellectual Analyses Data

***Recent/Representative Publications***

Total number of publications - more **350**

***Hobbies:*** computer sciences and applications; languages; dances

***Family:*** married, two sons (28; 35) and one daughter (11).