

Sergei Melnik

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Summary of Achievements

Moscow students Mathematical Olympiad winner in team
1987, 1988, 1989 (personal 3-rd place)

Vice Chairman, CDMA Certification forum
2005 -2007: Selected by the CCF, Hong Kong, 2005.

Russian Type approval and Interoperability testing association (TAITA) Member of the Presidium
2010 - *Present*: Selected by the TAITA, Moscow, 2010.

ITA (International Telecommunication Academy), Head of Research Group Certification and Metrology.
2016 - *Present*: Selected by the ITA, Moscow, 2016.

Author of the Tree ITU contribution about ITU-D SG2 Question 4/2 (Assistance to developing countries for implementing conformity and interoperability (C&I) programs and combining counterfeit ICT equipment and theft of mobile devices)
ITA, 2020, ITA & MTUCI 2021

ITU-D SG2 Question 4/2 vice rapporteur

Experience

2007 - Present

ITA (International Telecommunication Academy), Head of Research Group Certification and Metrology.
Type approval and Interoperability testing standards design

LLC KOMSET, CTO. Type approval and Interoperability testing standards design and provide testing procedures for ICT equipment conformity and interoperability

Moscow Technical University of Communication and Informatics, head of department. Taught notable courses about conformity and interoperability (C&I) ICT equipment, installation and testing ICT equipment

Moscow, Russia

2000 - 2007

LLC Institute of Cellular communications, Head of testing laboratory. Provide testing procedures for ICT equipment conformity and interoperability

1992 - 2000

Moscow Technical University of Communication and Informatics, Assistant Professor. Taught notable courses about conformity and interoperability (C&I) ICT equipment,
Moscow NEC Training Centre, Senior Teacher. Taught notable courses about installation and testing ICT

equipment

Education

Engineer, Computer Science, 1992
Moscow Institute of Radio Engineering and Automatic, Moscow, Russia
Specialization: Artificial Intelligence

Ph.D, Microelectronics, Digital signal processing, 1998
Moscow Technical University of Communication and Informatics, Moscow, Russia
Specialization: Digital signal processing Computer modeling and equipment testing

Senior Teacher, equipment installation and testing
NEC Training Centre, Tamagawa, Japan, 1998
Specialization: SDH equipment, Microwave equipment installation and testing

Senior Teacher, equipment installation and testing
ECI Training Centre, Tel Aviv, Israel, 1999
Specialization: SDH equipment installation and testing

Teacher, equipment installation and testing
Alcatel Training Centre, Stuttgart, Germany, 2000
Specialization: SDH equipment, GSM equipment installation and testing

Senior testing engineer, handset testing
Qualcom CDMA University, San Diego, CA, USA, 2004
Specialization: GSM, WCDMA handset installation and testing

Senior testing engineer, equipment installation and testing
Nortel Networks Training Centre, Belfast, UK, 2006
Specialization: WiMAX equipment installation and testing

Senior testing engineer, equipment installation and testing
Allot Training Centre, Tel Aviv, Israel, 2010
Specialization: DPI equipment installation and testing

Senior testing engineer, equipment installation and testing
Nokia Training Centre, Espoo, Finland, 2018
Specialization: GSM, WCDMA, LTE/LTE-A CPE and Base Stations installation and testing

Selected Publications

Sergei Melnik has more than 150 publications such as:

Equivalent MIMO Channel Matrix Sparsification for Enhancement of Sensor Capabilities. Sensors 2022, 22(5), 2041; Received: 10 January 2022 / Revised: 24 February 2022 / Accepted: 28 February 2022 / Published: 5 March 2022

New generation telecommunication networks: frequency and timing metrology. 2021. Systems of Signal Synchronization, Generating and Processing in Telecommunications (SYNCHROINFO). Published By IEEE. 9781665415491

MMSE Based K-best Algorithm for Efficient. MIMO Detection. 9th International Congress on Ultra Modern Telecommunications and Control Systems - ICUMT 2017. Munich, Germany. Conference Paper · November 2017. DOI: 10.1109/ICUMT.2017.8255198

Automation of environmental monitoring processes. IEEE 2017 SYSTEMS OF SIGNAL SYNCHRONIZATION, GENERATING AND PROCESSING IN TELECOMMUNICATIONS (SINKHROINFO). Kazan, Russia, 03-04.07.2017. Proceedings (pp. 51-54)

Service timing for 4G and 5G mobile networks. IEEE «Problems of Infocommunications. Science and Technology» (PICS&T-2014) . 14 - 17 October, 2014