

Druh práce alebo odvetvie
hospodárstva

Vedecko-výskumná a vzdelávacia činnosť

Vzdelávanie a príprava

Od - do
Štúdium

Október 2001 – Október 2006

Žilina SR

Postgraduálne štúdium

- Externé postgraduálne štúdium vo vednom odbore Telekomunikácie. Téma dizertačnej práce „Model prenosu technologických údajov v prostredí xDSL“. Titul bol obhájený a udelený v roku 2010.

Názov a typ organizácie
poskytujúcej vzdelávanie a prípravu

Žilinská univerzita v Žiline, Elektrotechnická fakulta
Univerzitná 1
010 26 Žilina

Stupeň vzdelania v národnej alebo
medzinárodnej klasifikácii

PhD.

Od - do
Štúdium

September 1996 – Jún 2001

Žilina SR

Vysoká škola

- Katedra telekomunikácií, získaný titul Ing. v odbore Telekomunikačná technika.
- Diplomová práca na tému Prístupová sieť v meste Košice

Názov a typ organizácie
poskytujúcej vzdelávanie a prípravu

Žilinská univerzita v Žiline, Elektrotechnická fakulta
Univerzitná 1
010 26 Žilina

Stupeň vzdelania v národnej alebo
medzinárodnej klasifikácii

Ing.

Osobná spôsobilosť

Materinský(é) jazyk(y)

Rusínsky jazyk.

Ďalší(ie) jazyk(y)

Sebahodnotenie

Európska úroveň ()*

Anglický jazyk

Ruský jazyk

Porozumenie		Hovorenie		Písanie
Počúvanie	Čítanie	Ústna interakcia	Samostatný ústny prejav	
A2	B1	A1	A1	A1
A2	B1	A1	A1	A1

(*) Úroveň podľa Spoločného európskeho referenčného rámca (CEF)

Additional Information

Projects (selection for the last 5 years):

- [1] VEGA 1/0241/22 Mobile robotic systems for support during crisis situations. Period of solution: 01/2022 – 12/2024, Responsible Investigator
- [2] APVV-17-0014: Smart tunnel: telematics support for traffic tunnel emergencies Period of solution: 07/2018 – 12/2021, Responsible Investigator
- [3] VEGA 1/0367/15 Research and development of a new system of autonomous control of robot trajectories Period of solution: 01/2015– 12/2017, Deputy Responsible Investigator
- [4] Measuring system with optical sensor for Weight In Motion systems VEGA-15-0441: Solution period: 1.7.2016 - 29.6.2020. Project budget for UNIZAV total 240 000 €. Investigator. • Research and development of a new system of autonomous control of robot trajectory VEGA 1/0367/15. Solution period: 01 / 2015- 12/2017 Project budget in total amount 447 €. Representative of the responsible investigator.
- [5] HW innovation and SW tools and laboratory teaching methods focusing on addressing security aspects of ICT in security critical applications of process management. KEGA- 008ŽU-4/2015.01/2015 - 12/2017 Budget of the project in total amount of 27700 €. Investigator
- [6] Research Centre of traffic telematics systems. Project of the EU Structural Funds. ITMS 26220220169. Solution period: 07/2013 - 06/2015. Project budget for UNIZA in total amount of 120 000 €.Project Manager, Investigator.
- [7] New methods of measurement of physical dynamic parameters and interactions of motor vehicles, traffic flow and roadway. Project of the EU Structural Funds. ITMS 26220220089. Solution period: 06/2010 - 06/2015. Project budget for UNIZA in total amount of 120 000 €. Project Manager, Investigator.
- [8] Innovation and the internationalization of education - tools to improve the quality of the University of Žilina in the European education area. Project of the EU Structural Funds. ITMS 26110230079. Solution Period: 02 / 2013-06 / 2015. Project budget for UNIZAV total amount of 1 883 240 €. Investigator.

- [9] University Science Park in University of Žilina Project of the EU Structural Funds. ITMS 26220220184. Solution period: 07/2013 - 12/2015 Project budget for UNIZA in total amount € 43,495,368 .Investigator.
- [10] R & D co - operation project with commercial sphere in field of transport telematics number U01 / 2015: Possibilities of tracking the ground traffic of transport facilities in a specific environment of airport parking systems and the subsequent dissemination of this information towards general information systems of traffic information Provider: TECHNISERV sro Responsible researcher: Ing. Rastislav Pirník, PhD. Project budget in of the total amount of 15 000 €.

Published work (selection for the last 5 years):

- [1] Bujnák M., Pirník R., Rástočný K., Janota A., Nmemec D., Kuchár P., Tichý T., Lukasič Z.: Spherical Robots for Special Purposes. A review on current possibilities Sensors Volume: 22 Issue: 4 DOI10.3390/s22041413, Published: 2022 [Q1, IF 3.735, CC, WoS, Scopus]
- [2] Kuchár, P.; Pirník, R.; Tichý, T.; Rástočný, K.; Skuba, M.; Tettamanti, T. Noninvasive Passenger Detection Comparison Using Thermal Imager and IP Cameras. Sustainability 2021, 13, 12928. <https://doi.org/10.3390/su132212928> Published: 2021 [Q2: ENVIRONMENTAL SCIENCES; IF 2.576] CC, WoS, Scopus
- [3] Tichý T.; Brož J; Bělinová Z.; Pirník R. Analysis of predictive maintenance for tunnel systems Sustainability Volume: 13 Issue: 7 Article Number: 3977 <https://doi.org/10.3390/su13073977> Published: 2021 [Q2: ENVIRONMENTAL SCIENCES; IF 2.576] CC, WoS, Scopus
- [4] Nemeč D., Hrušoř M., Janota A., Pirník R., Gregor M.: Estimation of the speed from the odometer readings using optimized curve-fitting filter. IEEE Sensors Journal, Volume21 Issue14, Page15687-15695, DOI10.1109/JSEN.2020.3023503 Published JUL 15 2021 [Q2: Engineering, Electrical and Electronic; IF 3.073] CC, WoS, Scopus
- [5] Nemeč D., Gregor M., Bubeníková E., Hrušoř M., Pirník R.: Improving the Hybrid A* method for a non-holonomic wheeled robot. INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS, Vol. 16, Issue 1, Article Number 1729881419826857, 2019 [Q4: Robotics; IF 1.482] CC, WoS, Scopus
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