

## Andrey V. Brazhnikov



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### Personal information

Surname / First name(s)

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Nationality

Russian

Date of birth

October 28, 1959

Place of birth

Kostroma, Russia

Gender

Male

### Education

Dates

**12/1982 → 08/1985**

Title of qualification awarded

Specialty "Electrical Equipment"

Name and type of organization  
providing education

Krasnoyarsk Polytechnic Institute (Krasnoyarsk, Russia),  
Department of Automatics and Telemechanics (post-graduate course)

Level in international  
classification

Ph.D. (technical sciences)

PhD degree work (dissertation)

Multiphase Inverter-Fed Drive with Different Versions of Induction Motor  
Rotor

Dates

**09/1977 → 06/1982**

Title of qualification awarded

Specialty "Automatics and Telemechanics"

Name and type of organization  
providing education

Krasnoyarsk Polytechnic Institute (Krasnoyarsk, Russia), Department of  
Automatics and Telemechanics

Honors

Honors Degree (cum laude)

Level in national classification

Electrical Engineer

Level in international  
classification

B.S. in Electrical Engineering, major in Automatics and Telemechanics

Specialist / BS degree work

Multiphase Inverter-Fed Induction Motor Drive

**Work experience**

Dates	<b>09/2017 → nowadays</b>
Name and address of employer	Siberian Federal University 26A Kirensky Street, Krasnoyarsk 660074 Russia
Type of business or sector	Polytechnic Institute, Department of Electrical Engineering
Occupation or position held	Associate Professor
Main activities and responsibilities	<ul style="list-style-type: none"> <li>- Research and development of multiphase inverter-fed non-traditional controlled AC electric and hybrid drive systems</li> <li>- Research and working out methods of the aerodynamic lift increase for:               <ul style="list-style-type: none"> <li>- wings of aircrafts and underwater vehicles;</li> <li>- blades of windwheels and hydro-turbines</li> </ul> </li> <li>- Research and development of green energy generation systems (wind energy, sea waves energy, etc.) based on new design principles</li> <li>- Teaching students (including Ph.D. students; courses: Power Electronics (including Electrical Machines and Drives), Electrical Engineering, Hydraulics, Aeromechanics</li> </ul>
Dates	<b>09/2013 → 08/2017</b>
Name and address of employer	Siberian Federal University 82/6 Svobodny Avenue, Krasnoyarsk 660041 Russia
Type of business or sector	Institute of Petroleum and Natural Gas Engineering, Department of Fire Safety
Occupation or position held	Associate Professor
Main activities and responsibilities	<ul style="list-style-type: none"> <li>- Research and development of multiphase inverter-fed non-traditional controlled AC electric and hybrid drive systems</li> <li>- Research and working out methods of the aerodynamic lift increase for:               <ul style="list-style-type: none"> <li>- wings of aircrafts and underwater vehicles;</li> <li>- blades of windwheels and hydro-turbines</li> </ul> </li> <li>- Research and development of green energy generation systems (wind energy, sea waves energy, etc.) based on new design principles</li> <li>- Teaching students (including Ph.D. students; courses: Power Electronics (including Electrical Machines and Drives), Hydraulics, Aeromechanics</li> </ul>
Dates	<b>03/1993 → 09/2013</b>
Name and address of employer	Siberian Federal University (former Krasnoyarsk Institute of Non-Ferrous Metals, and afterwards Krasnoyarsk State Academy of Non-Ferrous Metals and Gold, and afterwards Krasnoyarsk University of Non-Ferrous Metals and Gold)
Type of business or sector	79/10 Svobodny Avenue, Krasnoyarsk 660041 Russia
Occupation or position held	Institute of Mining, Geology and Geotechnologies, Department of Mining Machines and Complexes Assistant Lecturer first (03/1993 → 10/1993), and afterwards Senior Lecturer (10/1993 → 10/1996), and afterwards Associate Professor

	(10/1996 → 09/2013)
Main activities and responsibilities	<ul style="list-style-type: none"> <li>- Research and development of multiphase inverter-fed non-traditional controlled AC electric and hybrid drive systems</li> <li>- Research and working out methods of the aerodynamic lift increase for:               <ul style="list-style-type: none"> <li>- wings of aircrafts and underwater vehicles;</li> <li>- blades of windwheels and hydro-turbines</li> </ul> </li> <li>- Research and development of green energy generation systems (wind energy, sea waves energy, etc.) based on new design principles</li> <li>- Chief of international (Russian-Bulgarian) research and design project in the field of multiphase inverter-fed non-traditional controlled AC electric drives (1993-1995)</li> <li>- Teaching students (including Ph.D. students; courses: Power Electronics (including Electrical Machines and Drives), Hydraulics, Aeromechanics, Electromagnetic Molten Metals Stirring Systems, Mining Machines</li> </ul>
Dates	<b>10/1992 → 02/1993</b>
Name and address of employer	Governmental Industrial Enterprise "ISKRA" 1 Televizornaya Street, Krasnoyarsk 660028 Russia
Type of business or sector	Design Office
Occupation or position held	Head Engineer
Main activities and responsibilities	Working out the multiphase inverter-fed induction motor drive for a sea ship antenna system
Dates	<b>10/1988 → 09/1992</b>
Name and address of employer	Krasnoyarsk Polytechnic Institute 26A Kirensky Street, Krasnoyarsk 660074 Russia
Type of business or sector	Department of Electrification of Industrial Enterprises
Occupation or position held	Head of Department Computer Center first (10/1988 → 09/1990), and afterwards Assistant Lecturer (09/1990 → 09/1992)
Main activities and responsibilities	<ul style="list-style-type: none"> <li>- Research and development of multiphase inverter-fed non-traditional controlled AC electric drive systems</li> <li>- Chief of international (Russian-Bulgarian) scientific and design project in the field of multiphase inverter-fed non-traditional controlled AC electric drives (1991-1992)</li> <li>- Teaching students (courses: Power Electronics (including Electrical Machines and Drives), Industrial Robotics)</li> <li>- Management of the computer center</li> </ul>
Dates	<b>10/1986 → 10/1988</b>
Name and address of employer	Scientific-Research and Design Institute on Problems of Development of Kansk-Achinsk Coal Basin 87 Kirensky Street, Krasnoyarsk 660041 Russia
Type of business or sector	Laboratory of Automatic Control Systems and Metrology
Occupation or position held	Senior Engineer first (10/1986 → 11/1986), and afterwards Researcher (11/1986 → 08/1987), and afterwards Head of Laboratory (08/1987 →

	10/1988)
Main activities and responsibilities	<ul style="list-style-type: none"> <li>- Research and development of multiphase inverter-fed non-traditional controlled AC electric drive systems</li> <li>- Management of the scientific laboratory</li> </ul>
Dates	<b>09/1985 → 10/1986</b>
Name and address of employer	Krasnoyarsk Polytechnic Institute 26 Kirensky Street, Krasnoyarsk 660074 Russia
Type of business or sector	Department of Automatics and Telemechanics
Occupation or position held	Assistant Lecturer
Main activities and responsibilities	<ul style="list-style-type: none"> <li>- Research and development of multiphase inverter-fed non-traditional controlled AC electric drive systems</li> <li>- Teaching students (courses: Power Electronics (including Electrical Machines and Drives), Telemechanics, Theory of Reliability)</li> </ul>
<b>Scientific work</b>	
Dates	<b>1980 → nowadays</b>
Themes	<ul style="list-style-type: none"> <li>- Researching and Working out Non-Traditional Controlled Inverter-Fed Multiphase AC Electromechanical Systems (Electric and Hybrid Drives, and AC Electromagnetic Molten Metals Stirring Systems) Having Improved Technical-and-Economic Characteristics (in particular, less mass-and-overall dimensions, fault tolerance abilities, etc.)</li> <li>- Researching and Working out Methods of the Aerodynamic Lift Increase for: <ul style="list-style-type: none"> <li>- Wings of Aircrafts and Underwater Vehicles;</li> <li>- Blades of Windwheels and Hydro-Turbines</li> </ul> </li> <li>- Researching and Working out Green Energy Generation Systems (Wind Energy, Sea Waves Energy, etc.) based on New Design Principles and Having Improved Efficiency</li> </ul>
Publications	More than 200 published scientific works and patents for inventions
The most important scientific works published	<ul style="list-style-type: none"> <li>- A.V. Brazhnikov, "Novel Principle of Aero/Hydro-Dynamic Lift Creation", Proceedings of the 2017 2nd International Conference on Applied Mechanics, Electronics and Mechatronics Engineering "AMEME2017", Beijing, China, October 22-23, 2017, p. 3</li> <li>- A.V. Brazhnikov, V.I. Panteleev, N.N. Dovzhenko, V. Saravanan, and D.A. Sharipov, "Prospects for Application of Multiphase Asynchronous Drives in the Field of Drilling Rigs", Journal "American Journal of Engineering Research", Vol. 6, No. 8, 2017, pp. 34-40, <a href="http://www.ajer.org/papers/v6(08)/E06083440.pdf">http://www.ajer.org/papers/v6(08)/E06083440.pdf</a></li> <li>- A. Brazhnikov, "Novel Types of AC Motors and Drives for Electrical and Hybrid Vehicles", Proceedings of the 2017 2nd International Conference on Electrical Engineering, Mechanical Engineering and Automation "ICEEMEA2017", Xi'an, China, April 27-28, 2017, p. 18</li> <li>- A. Brazhnikov, "Novel Types of AC Motors and Drives for Electrical and Hybrid Vehicles", Journal "Journal of Electrical and Electronic</li> </ul>

- Engineering”, Vol. 5, No. 1, 2017, pp. 13-22, DOI: [10.11648/j.jeee.20170501.13](https://doi.org/10.11648/j.jeee.20170501.13)
- A. Brazhnikov, “Novel Principle of Aerodynamic Lift Creation, Methods of Its Technical Implementation and Prospects of Its Application in the Field of Windmill-Electric Generation Plants”, Proceedings of the 2016 International Conference on Mechanics, Civil Engineering and Transportation “ICMCT2016”, Guilin, China, November 4-6, 2016
  - A. Brazhnikov, N. Dovzhenko, A.Minkin, and M.Loveiko, “Extraordinary Properties and Some Design Peculiarities of OPM-Controlled Multiphase Asynchronous Drives”, Journal “Open Science Journal of Electrical and Electronic Engineering”, USA, Vol. 2, No. 5, 2015, pp. 78-83, <http://www.openscienceonline.com/journal/archive2?journalId=735&paperId=2403>
  - A.V. Brazhnikov, N.N. Dovzhenko, A.N. Minkin, O.V. Pomolotova, A.I. Litvinenko, and V.A. Shilova, “Multiphase Hybrid Traction Drives for Electrical Vehicles”, Proceedings of the 22nd International Symposium on Power Electronics, Electrical Drives, Automation and Motion “SPEEDAM ‘2014”, Ischia Island, Naples Bay, Italy, June 18-20, 2014, pp. 583-588, DOI: [10.1109/SPEEDAM.2014.6872109](https://doi.org/10.1109/SPEEDAM.2014.6872109)
  - A. Brazhnikov, N. Dovzhenko, A. Minkin, O. Pomolotova, A. Litvinenko, and V. Shilova, “Novel Type of EV Hybrid Traction Drives”, Journal “International Journal of Control and Automation”, South Korea, vol. 7, No 3, March 2014, pp. 251-266, [http://www.sersc.org/journals/IJCA/vol7\\_no3/25.pdf](http://www.sersc.org/journals/IJCA/vol7_no3/25.pdf)
  - A. Brazhnikov, N. Dovzhenko, A. Minkin, O. Pomolotova, A. Litvinenko, and V. Shilova, “Peculiarities of Novel Generation of Hybrid Traction Systems for Electrical Vehicles”, Advanced Science and Technology Letters, Vol. 37 (Electrical Engineering 2013), pp.17-20, JeJu Island, South Korea, [http://onlinepresent.org/proceedings/vol37\\_2013/5.pdf](http://onlinepresent.org/proceedings/vol37_2013/5.pdf)
  - A.V. Brazhnikov, and I.R. Belozarov, “Over-Phase Control of Inverter Multiphase AC Linear Drives”, Journal “Mechatronics”, Elsevier Publishing Company, vol. 23, issue 2, March 2013, pp. 227-232, <http://www.sciencedirect.com/science/article/pii/S0957415812000256>
  - A.V. Brazhnikov, and E.S. Brazhnikova, “Novel Generation of Hybrid Traction Drives With AC Induction Motors for Railway Vehicles – Principles of Designing”, Proceedings of the 2012 International Session at Annual Conference & Meeting of the Korean Society for Railway “ISKSR ‘2012”, GyeongJu, South Korea, October 18-20, 2012, pp. 44-49
  - A.V. Brazhnikov, E.S. Brazhnikova, and I.R. Belozarov, “PPM-Based Development-and-Control Strategy of Fault Tolerant Inverter-Fed Multiphase Electromechanical AC Systems”, Proceedings of the 21st International Symposium on Power Electronics, Electrical Drives, Automation and Motion “SPEEDAM ‘2012”, Sorrento, Italy, June 20-22, 2012, pp. 237-242, DOI: [10.1109/SPEEDAM.2012.6264377](https://doi.org/10.1109/SPEEDAM.2012.6264377)
  - A.V. Brazhnikov, and E.S. Brazhnikova, “Efficiency Invariance Laws and Development of Multiphase AC Inverter Drives”, Proceedings of the 21st International Symposium on Power Electronics, Electrical Drives, Automation and Motion “SPEEDAM ‘2012”, Sorrento, Italy, June 20-22, 2012, pp. 420-425, DOI: [10.1109/SPEEDAM.2012.6264379](https://doi.org/10.1109/SPEEDAM.2012.6264379)
  - A.V. Brazhnikov, and I.R. Belozarov, “Space-Temporal Spectral

- Relations and Energy Efficiency Invariance Laws Acting in the Field of Inverter-Fed Multiphase AC Drives”, Proceedings of the IET 6th International Conference on Power Electronics, Machines and Drives “PEMD ‘2012”, Bristol, the United Kingdom, March 27-29, 2012, vol. 2, pp. 1094-1099, [DOI: 10.1049/cp.2012.0145](https://doi.org/10.1049/cp.2012.0145)
- A.V. Brazhnikov, and I.R. Belozarov, “Prospects for the Use of Multiphase Inverter-Fed Asynchronous Drives in the Field of Traction Systems of Railway Vehicles”, Journal “International Journal of Railway” (IJR, South Korea), Vol. 5, No 1, March 2012, pp. 38-47, [http://www.ijr.or.kr/On\\_line/admin/files/\(38-47\)-12-005.pdf](http://www.ijr.or.kr/On_line/admin/files/(38-47)-12-005.pdf)
  - A.V. Brazhnikov, and I.R. Belozarov, “Non-Traditional Control and Advantages of Multiphase AC Inverter Drives”, Proceedings of the IEEE International Conference on Energy, Automation and Signal “ICEAS ‘2011”, Bhubaneswar, Orissa, India, December 28-30, 2011, pp. 781-786, [DOI: 10.1109/ICEAS.2011.6147207](https://doi.org/10.1109/ICEAS.2011.6147207)
  - A.V. Brazhnikov, and I.R. Belozarov, “Energy Efficiency Invariance Laws Acting in the Field of Multiphase AC Inverter Drives”, Proceedings of the IEEE International Conference on Energy, Automation and Signal “ICEAS ‘2011”, Bhubaneswar, Orissa, India, December 28-30, 2011, pp. 787-792, [DOI: 10.1109/ICEAS.2011.6147208](https://doi.org/10.1109/ICEAS.2011.6147208)
  - A.V. Brazhnikov, I.R. Belozarov, and S.A. Molokitin, “Inverter-Fed Multiphase AC Linear Motors under Non-Traditional Control”, Proceedings of the 21st International Conference on Magnetically Levitated Systems and Linear Drives “MAGLEV ‘2011”, Daejeon, South Korea, October 10-13, 2011, 5 p., CD-ROM, <http://www.maglev.ir/eng/documents/papers/conferences/maglev2011/PLE-04.pdf>
  - A.V. Brazhnikov, I.R. Belozarov, and S.A. Molokitin, “Energy Efficiency Invariance Laws Acting in the Field of Multiphase Inverter-Fed AC Linear Motors”, Proceedings of the 21st International Conference on Magnetically Levitated Systems and Linear Drives “MAGLEV ‘2011”, Daejeon, South Korea, October 10-13, 2011, 4 p., CD-ROM, <http://www.maglev.ir/eng/documents/papers/conferences/maglev2011/PLE-06.pdf>
  - A.V. Brazhnikov, and I.R. Belozarov, “Over-Phase Control of Inverter Multiphase AC Linear Drives”, Proceedings of the 8th International Symposium on Linear Drives for Industry Applications “LDIA ‘2011”, Eindhoven, the Netherland, July 3-6, 2011, paper No 172 (LIM-II.3), 6 p., CD-ROM
  - A.V. Brazhnikov, and N.N. Dovzhenko, “Control Potentials and Advantages of Multiphase AC Drives”, Proceedings of the 29th Annual IEEE Power Electronics Specialists Conference “PESC ‘98”, Fukuoka, Japan, May 17-22, 1998, vol. 2, pp. 2108-2114, [DOI: 10.1109/PESC.1998.703471](https://doi.org/10.1109/PESC.1998.703471)
  - A.V. Brazhnikov, and N.N. Dovzhenko, “Advantages of Multiphase Electric Drives – Application in Drilling Rigs”, Proceedings of the 4th International Symposium on Mine Mechanization and Automation “MMA ‘97”, Brisbane, Queensland, Australia, July 6-9, 1997, vol. 1, pp. B4-37 - B4-42
  - A.V. Brazhnikov, N.N. Dovzhenko, A.V. Gilyov, and V.D. Butkin, “Improvement of Technical-and-Economic Characteristics of Drilling Rigs Owing to the Use of Multiphase Electric Drives”, Proceedings of the ISDT 16th Annual Technical Conference, Las Vegas, Nevada, U.S.A., May 1-3, 1996, 8 p.
  - A.V. Brazhnikov, N.N. Dovzhenko, and E.B. Izmaylov, “Prospects for

- the Use of Multiphase Electric Drives in Field of Mining Machines", Proceedings of the 3rd International Symposium on Mine Mechanization and Automation "MMA '95", Golden, Colorado, U.S.A., June 12-14, 1995, vol. 1, pp. 13-13 - 13-23
- A.V. Brazhnikov, and N.N. Dovzhenko, "Beyond Routine Control of Multiphase Inverter Drives", Proceedings of International Conference on Power Electronics, Motion Control and Associated Applications "PEMC '94", Warsaw, Poland, September 20-22, 1994, vol. 1, pp. 99-104
  - A.V. Brazhnikov, "Additional Resources of Control of Multiphase Inverter Drives", Proceedings of the 7th International Conference on Electrical Machines and Drives "ELMA '93", Varna, Bulgaria, October 7-9, 1993, pp. 325-332
  - V.P. Kochetkov, A.V. Brazhnikov, and I.L. Dubrovskiy, "Theory of Electric Drives", Krasnoyarsk, Russia, Publishing House of Krasnoyarsk Polytechnic Institute, 1991, 140 p. (in Russian)
  - A.V. Brazhnikov, "Multiphase Inverter-Fed Drive with Different Versions of Induction Motor Rotor", Ph.D. Dissertation, Department of Electrical Machines and Drives, Tomsk Polytechnic Institute, Tomsk, Russia, 1985, 210 p. (in Russian)
- The most important scientific works in press
- No
- The most important patents for inventions
- A.V. Brazhnikov, and I.R. Belozerov, "Inverter Multiphase Induction Motor Drive under Phase-Pole Control", Russian patent No RU 100863 U1 dated 27.12.2010 (in Russian)
  - A.V. Brazhnikov, I.R. Belozerov, and S.A. Molokitin, "Solid Ferromagnetic Rotor for Phase-Pole-Controlled Induction Motor", Russian patent No RU 109345 U1 dated 10.10.2011 (in Russian)
  - A.V. Brazhnikov, and I.R. Belozerov, "Induction Motor Having E-Shaped Rotor", Russian patent No RU 116720 U1 dated 27.05.2012 (in Russian)
  - A.V. Brazhnikov, and I.R. Belozerov, "Drilling Rig", Russian patent No RU 116559 U1 dated 27.05.2012 (in Russian)
  - A.V. Brazhnikov, and I.R. Belozerov, "E-Shaped Rotor Having Short-Circuited Winding for Phase-Pole-Controlled Induction Motor", Russian patent No RU 118805 U1 dated 27.07.2012 (in Russian)
  - A.V. Brazhnikov, " Multiphase Induction Motor", Russian patent No RU 127268U1 dated 20.04.2013 (in Russian)
  - A.V. Brazhnikov, E.S. Brazhnikova, R.V. Bondarenko, and A.A. Urchukov, "Speed Stepwise Controlled Multiphase Induction Motor Drive", Russian patent No RU 130165 U1 dated 10.07.2013 (in Russian)
  - A.V. Brazhnikov, E.S. Brazhnikova, R.V. Bondarenko, A.A. Urchukov, V.N. Zavitayev, and I.Yu. Golubev, "Wing of Aircraft for Aviageological Exploration", Russian patent No RU 130949 U1 dated 10.08.2013 (in Russian)
  - A.V. Brazhnikov, N.N. Dovzhenko, A.N. Minkin, O.V. Pomolotova, D.A. Sharipov, and B.B. Altimishev, "Wing of Aircraft for Aviageological Exploration of Minerals", Russian patent No RU 141563 U1 dated 10.06.2014 (in Russian)
  - A.N. Minkin, A.V. Brazhnikov, M.A. Loveyko, and E.S. Kibalina, "Fire-

	Prevention Barrier”, Russian patent No RU 142841 U1 dated 10.07.2014 (in Russian)
	- A.V. Brazhnikov, N.N. Dovzhenko, A.N. Minkin, O.V. Pomolotova, D.A. Sharipov, B.B. Altimishev, and M.A. Loveyko, “Blade of Windwheel”, Russian patent No RU 147728 U1 dated 20.11.2014 (in Russian)
	- A.V. Brazhnikov, N.N. Dovzhenko, A.N. Minkin, O.V. Pomolotova, Barnashova D.S., Dmitrieva N.I., and Kuvandirova V.A., “Anchor Support for Drilling Rig”, Russian patent No RU 147741 U1 dated 20.11.2014 (in Russian)
	- A.V. Brazhnikov, N.N. Dovzhenko, A.N. Minkin, O.V. Pomolotova, D.A. Sharipov, B.B. Altimishev, and M.A. Loveyko, “Mobile Energy Complex for Power Supply of Fire Fighting Equipment”, Russian patent No RU 147940 U1 dated 20.11.2014 (in Russian)
	- A.V. Brazhnikov, N.N. Dovzhenko, A.N. Minkin, M.A. Loveyko, E.V. Skolkova, and S.E. Chudinova, “Wing for Shortening of Distance of Aircraft Take-Off and Landing”, Russian patent No RU 153882 U1 dated 10.08.2015 (in Russian)
	- A.V. Brazhnikov, N.N. Dovzhenko, A.N. Minkin, O.V. Pomolotova, Dmitrieva N.I., Kuvandikova V.A., and Barnashova D.S., “Anchor Support for Drilling Rig”, Russian patent No RU 154131 U1 dated 20.08.2015 (in Russian)
	- A.V. Brazhnikov, N.N. Dovzhenko, A.N. Minkin, O.V. Pomolotova, Azarnikova V.A., and Akentieva Yu.E., “Fire Robotic Complex”, Russian patent No RU 166438 U1 dated 27.11.2016 (in Russian)
	- A.V. Brazhnikov, N.N. Dovzhenko, and A.N. Minkin, “Windmill-Electric Generation Plant”, Russian patent No RU 2649371 C1 dated 02.04.2018 (in Russian)
Recent applications for getting patents for inventions	- No
Honors and Awards	Prizes for Results of Scientific Works: <ul style="list-style-type: none"> <li>- Federal Educational Agency of Russia (Moscow, Russia, 2006)</li> <li>- Bortnik’s Fund (Moscow, Russia, 2007)</li> <li>- Russian Academy of Natural History (Moscow, Russia, 2010)</li> <li>- Russian Federal Program “Project 5-100” (Moscow, Russia, 2016)</li> <li>- Russian Federal Program “Project 5-100” (Moscow, Russia, 2017)</li> <li>- Siberian Federal University (Krasnoyarsk, Russia, Annual Prizes)</li> </ul> <p>Listed as one of the 100 best Russian scientists in the field of Electrical Engineering (April, 2014)</p> <p>Honorary Title “The Honored Worker of Science and Education” (Moscow, Russia, 2008)</p> <p>Medal of Vernadsky for a Valuable Contribution to Russian Science (Moscow, Russia, 2008)</p> <p>Medal for Valorous Work (Moscow, Russia, 2012)</p> <p>In December, 2011 had entered in ten the most successful scientists of Siberian Federal University (Krasnoyarsk, Russia)</p> <p>In December, 2012 had entered in three the most successful scientists of Institute of Mining, Geology and Geotechnologies of Siberian Federal University (Krasnoyarsk, Russia)</p> <p>In December, 2013 had entered in four the most successful scientists of Institute of Petroleum and Natural Gas Engineering of Siberian Federal University (Krasnoyarsk, Russia)</p>



- During 2013 and 2014: the best employee of Department of Fire Safety of Institute of Petroleum and Natural Gas Engineering of Siberian Federal University (Krasnoyarsk, Russia)
- Other achievements
- Expert of Russian State Science Foundation (Moscow, Russia), Contract No 09-17/2774 dated February 20, 2017
  - Expert of Siberian Federal University in the field of Oil and Gas Industry, since 2016
  - General Chair of the 2017 International Conference on Applied Mechanics and Mechatronics Engineering ("AMME2017"), November 26-27, 2017, Shanghai, China
  - Honor Chair of the 2nd International Conference on Mechanical Control and Automation ("ICMCA2017") , May 26-28, 2017, Guilin, China
  - Honor Chair of the 2016 International Conference on Mechanics, Civil Engineering and Transportation ("ICMCT2016"), November 4-6, 2016, Guilin, China
  - Was invited to be the chairman of section WC3 "Renewable Energy Sources for Smart Grids" of the 22nd International Symposium on Power Electronics, Electrical Drives, Automation and Motion "SPEEDAM '2014" (Ischia Island, Naples Bay, Italy, June 18-20, 2014)
  - Keynote Speaker of the 2018 3rd International Conference on Electrical Engineering, Mechanical Engineering and Automation ("ICEEMEA2018"), May 29-31, 2018, Hangzhou, China
  - Keynote Speaker of the 2018 3rd International Conference on Energy, Environment and Natural Resources ("ICEENR2018"), May 27-29, 2018, Hangzhou, China
  - Keynote Speaker of the 5th Annual 2017 International Conference on Mechanics and Mechatronics ("ICMM2017"), December 15-17, 2017, Xiamen, China
  - Keynote Speaker of the 2017 2nd International Conference on Applied Mechanics, Electronics and Mechatronics Engineering ("AMEME2017"), October 22-23, 2017, Beijing, China
  - Keynote Speaker of the 2nd International Conference on Mechanical Control and Automation ("ICMCA2017") , May 26-28, 2017, Guilin, China
  - Keynote Speaker of the 2017 2nd International Conference on Electrical Engineering, Mechanical Engineering and Automation ("ICEEMEA2017"), April 27-28, 2017, Xi'an, China
  - Keynote Speaker of the 2016 International Conference on Mechanics, Civil Engineering and Transportation ("ICMCT2016"), November 4-6, 2016, Guilin, China
  - Keynote Speaker of the 2016 World Congress on Energy, Environment and Sustainable Development ("WCEESD2016"), October 27-28, 2016, Jinan, China
  - Keynote Speaker of the 2016 World Congress on Mechanical and Electrical Engineering ("WCMEE2016"), October 25-26, 2016, Jinan, China
  - Invited Speaker of the 2018 International Conference on Material Strength and Applied Mechanics ("MSAM 2018"), April 10-13, 2018, Kitakyushu City, Japan
  - Member of Technical Program Committee (as Designated Reviewer) of

- International Journal of Computing and Digital Systems (Bahrain, since January, 2015-2017)
- Member of Editorial Board and Reviewer Team of American Journal of Mechanical Engineering and Automation (2015-2016)
  - Member of Reviewer Team of Open Science Journal of Electrical and Electronics Engineering (USA, 2015-2016)
  - Member of Editorial Board of American Journal of Engineering, Technology and Society (2015-2016)
  - Member of Reviewer Team of American Journal of Energy Science (2015-2016)
  - Reviewer of Journal of Power Electronics (JPE, South Korea, since 2012)
  - Member of Technical Program Committee of the 2018 International Conference on Automatic Control, Mechatronics and Industrial Engineering ("ACMIE 2018"), October 29-31, 2018, Suzhou, China
  - Member of Technical Program Committee of the 2018 International Conference on Energy Internet and Energy Systems ("EIES 2018"), September 15-17, 2018, Chongqing, China
  - Member of Technical Program Committee of the 3rd International Conference on Materials Processing Technology ("MPT 2018"), July 14-16, 2018, Kunming, China
  - Member of International Scientific Committees of the 2018 International Conference on Advanced Electrical Engineering and Automation ("AEEA 2018"), May 27-28, 2018, China
  - Member of Technical Program Committee of the 2018 International Conference on Electrical, Control and Mechanical Engineering ("ECME2018"), April 22-23, 2018, Beijing, China
  - Member of Organization Committee of the 9th Workshop on Electrical and Electronic Engineering 2017, December 18-20, 2017, Jeju National University, International Center, Jeju Island, South Korea
  - Member of Organization Committee of the 8th Workshop on Electrical and Electronic Engineering 2017, December 20-22, 2017, Gwangzhou, China
  - Member of Technical Program Committee of the 5th Annual 2017 International Conference on Mechanics and Mechatronics ("ICMM2017"), December 15-17, 2017, Xiamen, China
  - Member of Technical Program Committee of the 4th International Workshop on Mobile Applications ("MobiApps '2017"), August 20, 2017
  - Member of Organization Committee of the 7th Workshop on Electrical and Electronic Engineering 2017, June 26-28, 2017, Qingdao, China
  - Member of Technical Program Committee of the 2017 International Symposium on Cloud Computing and Cyber-Security ("SCCCS '2017"), June 25 - 29, 2017, Venice, Italy
  - Member of Technical Program Committee of the 2017 International Workshop on Cyber-Security in IoT-based Healthcare Systems and Cloud Computing ("CS-HSC '2017"), June 24 - 26, 2017, Leuven, Belgium
  - Member of Technical Program Committee of the 2017 IEEE 85th Vehicular Technology Conference ("VTC2017-Spring"), June 4-7 2017, Sydney, Australia

- Member of Technical Program Committee of the 2017 9th IEEE - GCC Conference and Exhibition ("GCCCE '2017"), May 6-9, 2017, Manama, Bahrain
- Member of Organization Committee of the 6th Workshop on Electrical and Electronic Engineering 2016, December 19-21, 2016, Jeju National University, International Center, Jeju Island, South Korea
- Member of Technical Program Committee of the 4th Annual 2016 International Conference on Material Science and Environmental Engineering ("MSEE2016"), December 16-18, 2016, Chengdu, Sichuan, China
- Member of Technical Program Committee of the 2nd Annual International Conference on Sustainable Development ("ICSD2016"), December 2-4, 2016, Xian, Shaanxi, China
- Member of Technical Program Committee of IEEE GCC Conference and Exhibition 2016 ("9th IEEE-GCC '2016"), November 6-9, 2016, Manama, Bahrain
- Member of Technical Program Committee of the 13th IEEE Vehicle Power and Propulsion Conference ("VPPC '2016"), on October 17-20, 2016, Hangzhou, China
- Member of Technical Program Committee of International Conference on Mechatronics and Manufacturing Technologies ("MMT '2016"), August 20-21, 2016, Wuhan, China
- Member of Organization Committee of the 5th Workshop on Electrical and Electronic Engineering 2016, August 16-19, 2016, Jeju National University, International Center, Jeju Island, South Korea
- Member of Technical Program Committee of the 2016 3rd International Conference on Management Science and Management Innovation "MSMI '2016", August 13-14, 2016, Guilin, China
- Member of Organization Committee of the 4th Workshop on Electrical and Electronic Engineering 2016, April 19-21, 2016, Jeju National University, International Center, Jeju Island, South Korea
- Member of Organization Committee of the 3rd Workshop on Electrical and Electronic Engineering 2015, December 14-16, 2015, Jeju National University, International Center, Jeju Island, South Korea
- Member of Technical Program Committee of the 2015 International Symposium on Web of Things and Big Data ("WoTBD '2015"), October 5-8, 2015, Manama, Bahrain
- Member of Technical Program Committee of the 2015 IEEE Vehicle Power and Propulsion Conference ("VPPC '2015"), October 19-22 2015, Montréal, Canada
- Member of Technical Program Committee of the 2nd International Workshop on Mobile Applications ("MobiApps '2015"), August 24-26, 2015, Rome, Italy
- Member of Organization Committee of the 2nd Workshop on Electrical and Electronic Engineering 2015, August 19-22, 2015, Jeju National University, International Center, Jeju Island, South Korea
- Member of Technical Program Committee of the 2nd International Workshop on Design and Performance of Networks on Chip ("DPNoC '2015"), August 17-20, 2015, Belfort, France
- Member of Organization Committee of the 1st Workshop on Electrical and Electronic Engineering 2015, April 15-18, 2015, Jeju National

- University, International Center, Jeju Island, South Korea
- Member of Organization Committee of the 5th 2014 Workshop on Electrical Engineering, December 17-19, 2014, Jeju National University, International Center, Jeju Island, South Korea
  - Member of Organization Committee of the 4th 2014 Workshop on Electrical Engineering, August 20-24, 2014, Jeju National University International Center, Jeju Island, South Korea
  - Member of Organization Committee of the 3rd 2014 Workshop on Electrical Engineering, April 15-18, 2014, Jeju National University, International Center, Jeju Island, South Korea
  - Member of Technical Program Committee of the 17th IEEE Mediterranean Electrotechnical Conference ("MELECON '2014"), April 13-16, 2014, Beirut, Lebanon
  - Member of Technical Program Committee of the 2014 IEEE Symposium on Computer Applications & Industrial Electronics ("ISCAIE '2014"), April 7-8, 2014, Penang, Malaysia
  - Member of Technical Program Committee of the 1st International Conference on Electronic Publishing and Information Technology ("ICEPIT '2014"), March 2-4, 2014, Zallaq, Bahrain
  - Member of Organization Committee of the 2nd 2013 Workshop on Electrical Engineering ("WElectrical2 '2013"), December 11-13, 2013, Jeju National University, International Center, Jeju Island, South Korea
  - Reviewer of the 2018 IEEE 1st International Conference on Industrial Electronics for Sustainable Energy Systems ("IESES '2018"), January 31 - February 2, 2018, Hamilton, North Island, New Zealand
  - Reviewer of the 4th International Conference on Electric Power and Energy Conversion Systems ("EPECS '2015"), November 24-26, 2015, Sharjah, United Arab Emirates
  - Reviewer of the 2015 IEEE Vehicle Power and Propulsion Conference ("VPPC '2015"), October 19-22, 2015, Montréal, Canada
  - Reviewer of the 2015 International Symposium on Web of Things and Big Data ("WoTBD '2015"), October 5-8, 2015, Manama, Bahrain
  - Reviewer of the 2nd International Workshop on Mobile Applications ("MobiApps '2015"), 24-26 August 2015, Rome, Italy
  - Reviewer of the 2nd International Workshop on the Design and Performance of Networks on Chip ("DPNoC '2015"), Belfort, France, August 17-20, 2015
  - Reviewer of the 6th International Conference on Modeling, Simulations and Applied Optimization ("ICMSAO '2015"), May 27-29, 2015, Istanbul, Turkey
  - Reviewer of the 2014 IEEE Vehicle Power and Propulsion Conference ("VPPC '2014"), October 27-30, 2014, Coimbra, Portugal
  - Reviewer of the 1st International Conference on Electronic Publishing and Information Technology ("ICEPIT '2014"), April 22-24, 2014, Manama, Bahrain
  - Reviewer of the 17th IEEE Mediterranean Electrotechnical Conference ("MELECON '2014"), April 13-16, 2014, Beirut, Lebanon
  - Reviewer of the 2014 IEEE Symposium on Computer Applications and Industrial Electronics ("ISCAIE '2014"), April 7-8, 2014, Penang, Malaysia

	<ul style="list-style-type: none"> <li>- Reviewer of the 8th International Conference on Power Electronics ("ICPE '2011 – ECCE Asia"), May 30 - June 3, 2011, Jeju Island, South Korea</li> <li>- Listed as one of Maglev Trains Authors and Professionals of the Iran Maglev Technology, Iran (2012-2014)</li> <li>- Thirteen students of Indian Institute of Technology (India) expressed wishes to pursue their internships and summer research projects under guidance of A.V. Brazhnikov in 2013-2017</li> <li>- Official expert of Siberian Federal Institute in the field of petroleum and natural gas engineering (since May, 2016)</li> </ul>
Membership	<ul style="list-style-type: none"> <li>- Professor of Russian Academy of Natural History (Moscow, since 2007)</li> <li>- Member of European Academy of Natural History (Great Britain, since 2009)</li> <li>- Member of New York Academy of Sciences (USA, since 2009)</li> <li>- Member of International Academy of Natural History (Germany, since 2013)</li> <li>- Doctor Honoris Causa of International Academy of Natural History (Germany, since 2012)</li> <li>- Advisor of American Biographical Institute (USA, 1998-2012)</li> </ul>
<b>Personal skills and competences</b>	Highperformer, responsible, honest, sociable, good teamworker, persistent, purposeful, able to meet deadlines, have strong analytical skills
Mother tongue	Russian
Other language(s)	English
Computer skills and competences	Experienced user of PC, MSOffice (Word, Excel, PowerPoint), Fortran
Driving license	Category B vehicle
Hobby	Traveling, classical music
<b>References</b>	<p>Vasilii I. Panteleev  Professor, Ph.D.  Director of Polytechnic Institute,  Siberian Federal University, Krasnoyarsk, Russia  Tel.: +7 (391) 291-21-42; +7 950 400 45 53 (mob.)  E-mail: pi@sfu-kras.ru , pvi0808@rambler.ru</p> <p>Nikolay N. Dovzhenko  Professor, Ph.D.  Deputy Rector of Krasnoyarsk State Academy  of Non-Ferrous Metals and Gold, Krasnoyarsk, Russia  Tel.: +7 902 923 78 46  E-mail: n.dovzhenko@bk.ru</p>

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