

PERSONAL INFORMATION



Kostadin Kostadinov

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-  State personal website(s) https://www.researchgate.net/profile/Kostadin_Kostadinov2
-  kostadink1 (facebook) / kostadin-gk (skype)

Sex male | Date of birth 27/11/1955 | Nationality Bulgarian

POSITION

Professor of Robotics and Mechatronics, Institute of Mechanics-BAS since April 1st 2016
 Acad. G. Bonchev St., Block 4, Sofia, Bulgarian, www.imbm.bas.bg
 Carrying out scientific research in the field of mechanics, mechatronics and robotics
 Business or sector Research

WORK EXPERIENCE

Since 1st of July 2016

KAM & Innovation senior expert – part time

GIS-TransferCenter Foundation, Acad. G. Bonchev St., Block 4, Sofia, Bulgarian, www.gis-tc.org

- Evaluation, Management and Control of activities in the field of technology transfer and innovations
 Business or sector Technology transfer and innovation

Nov. 12th 2014 –March 30th 2016

Deputy Minister, Ministry of Education and Science

2a, “Dondukov” Boulevard., Sofia 1040, Bulgaria, www.mon.bg

- Responsible for Science, European Programs and Structural funds, Technology transfer and Innovation, Academy and partnership.

Business or sector Governmental

May 20th 2011 –Nov. 11th 2014

Professor, Head of Dept. of Mechanics of Discrete Systems at Institute of Mechanics–BAS

Acad. G. Bonchev St., Block 4, Sofia, Bulgarian, www.imbm.bas.bg

- Organization & Management of research activities in the field of Mechatronics & Robotics

Business or sector Research

Nov. 3rd 2008 – Feb. 11th 2013

Scientific Secretary for ICT division and Member of the BAS Managing Board - part time

Bulgarian Academy of Sciences, 1, “15 Noemvri” St., Sofia 1040, Bulgaria, www.bas.bg

- Planning, Control and Management of activities in the ICT field, Engineering, Mathematical Sciences and Technology transfer and Innovation, Industry and Academy partnership.

Business or sector Governmental

Feb. 1st 2010 – June 6th 2012

Vice-Rector of VUZF University for Research and Institutional Relations – part time

VUZF University, 1, Gusla St., 1618 Sofia www.vuzf.bg

- Organization of Research activities and Institutional Relations .

Business or sector High Education

Aug. 17th 2009 – Jan. 4th 2010

Minister Councillor for Research and Science, Innovation and Technology, full time

Ministry of Education, Youth and Science, 2A, Dondukov Boul., 1000 Sofia, www.mon.bg

- Policy and Strategy planning of Science, Research, Technology transfer & Innovation.

Business or sector Governmental

July 1st 2008 – May 20th 2012 **Associate Professor in Robotics and Automation in Mechatronic Systems Dept. full time**
 Institute of Mechanics – BAS, acad. G. Bonchev St., Block 4, Sofia 1113, Bulgaria, www.imbm.bas.bg
 ▪ Research and Management of research activities in the field of Mechatronics and Robotics.
Business or sector Research

May 15th 2001 - November 11th 2014 **Chairman of the Managing Board – part time**
 GIS-TransferCenter Foundation, Acad. G. Bonchev St., Block 4, Sofia, Bulgarian, www.gis-tc.org
 ▪ Planning, Management and Control of activities in the field of technology transfer and innovations
Business or sector Technology transfer and innovation

EDUCATION AND TRAINING

April 22nd 2013-April 26th 2013 **Key qualification for innovation** Replace with EQF (or other) level if relevant
 Bulgarian Industry Association – Sofia, Bulgaria
 ▪ Innovation thinking and keeping the innovation culture

04.12.2006-08.12.2006 **Key qualification for Technology Transfer**
 Steinbeis Foundation – Stuttgart, Germany
 ▪ Technology transfer – organization, management and networking

18.12.1988-18.04.1994 **PhD in Applied Mechanics**
 Institute of Mechanics – Bulgarian Academy of Sciences – Sofia
 ▪ PhD Thesis “Investigation and synthesis of electromechanical drives for positioning robots”

01.05.81-23.04.83 **MSc in Robotics (Engineer)**
 Technical University – Sofia
 ▪ Mechanical Systems in Robotics

15.09.76-18.04.81 **MSc in Electrical Engineering (Engineer)**
 Technical University – Sofia
 ▪ Electric Power Supply and industrial electrical equipment

PERSONAL SKILLS

Mother tongue(s) Bulgarian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Replace with name of language certificate. Enter level if known.					
German	B2	B2	B1	B1	B1
Replace with name of language certificate. Enter level if known.					
Russian	C2	C2	C1	C!	C1
Replace with name of language certificate. Enter level if known.					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
 Common European Framework of Reference for Languages

Communication skills ▪ Team spirit; good ability to adapt to multicultural environments, gained through my work experience in abroad; good communication skills gained through my experience as vice director responsible for work with industrial and other partners, university professor etc..

Organisational / managerial skills Leadership (currently responsible for 10 people permanent staff and 40 project based experts in GIS-TransferCenter Foundation and 15 people (in the past for 144 people during 2 Mandates position of Vice-Director) in the Institute of Mechanics;
Sense of organizations (experience in establishment of NGO and as military officer – 2 years);
Good experience in project management through work upon 9 international and 15 national projects
▪ Chairman and Committee Member of National (12) and International (5) Conferences and Workshops.

Job-related skills ▪ Good command of electro systems; electro drive systems for manufacturing systems, and electromagnetic grippers, telemanipulation of micro robots, etc.

Computer skills ▪ Good command of Microsoft Office tools (Word, Excel, Power Point), Solid Dynamics, Marketing Manager, and graphic design applications

Other skills Member of H2020 Program Committee for SME and Access to Finance, since July 2013
National representative in European Institute of Innovation and Technology, since July 2014
National Contact Point for SME in the FP7 of EC since December 2006,
Expert in FP7 for evaluation of proposal (since 2012)
Member of the CEN/TC 389 "Innovation Management" – since 2010;
Management of research (FP4, FP6 and FP7; CIP, Interreg IIIc, PHARE) and industrial projects;
Member of commissions for accreditation the education of under and postgraduate students.
Delivering lectures in Technical university of Sofia in two faculties – Machine building Faculty and English Language Faculty of Engineering;
Visiting Researcher in University of Applied Sciences, Konstanz, Germany;
Visiting researcher & professor in University Otto-von-Guiricke Magdeburg; Germany;
Visiting professor in Technical University of Riga, filial Liepaja, Latvia;
Visiting professor in University "Dunarea de Jos", Galati; Romania;
Supervisor of 7 PhD Students, 3 – promoted, 2 still in processing;
Member of Expert Council of High-technology business incubator - Varna,
Member of Evaluation Committee of National Innovation Fund since 2005;
Short term consultant in the PHARE Project BG.0102.01 "Technology consultancy grant scheme for SME's" for Electro- and Machine building Industries and TAIEX

Driving licence ▪ B

ADDITIONAL INFORMATION

Publications More than 100 publications, in which 13 patents, 4 books
Presentations Presentations in whole Europe and in Asia (China, India, Malaysia)
Projects More than 30 projects in Copernicus, FP6, FFP7, CIP, Interreg IIIc, PHARE, DAAD, DFG, etc.
Conferences & Seminars Participation in the Conferences and Seminars all over the world in Europe, Asia and Amerika.
Honours and awards Award "Inventor of the year 2015",
Award of Bulgarian Union of Scientists – 2012
National award "Pitagor" 2010 for exceptional achievements in Engineering science
Memberships ▪ NATO, DAAD and DFG awards for research projects (1999, 2001, 2003, 2004)
References ▪ Senior Member of IEEE, Robotics and Automation Society, since 1999

ANNEXES

Annex #1 **RECENT PUBLICATIONS** ('10 - '15)
Annex #2 *Papers for technology transfer and Innovation:*
Annex #3 List of patents
Annex #4 Project portfolio

I. RECENT SCIENTIFIC PUBLICATIONS ('10 - '15)

1. S. Nikolov, V. Kotev, K. Kostadinov, F. Wang, C. Liang, Y. Tian, Model-Based Design Optimization of Soft Fiber-Reinforced Bending Actuators, 2016 IEEE International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale; 18-22 July 2016, Chongqing, China (*under printing*)
2. Assen Shulev, Tihomir Tiankov, Detelina Ignatova, Kostadin **Kostadinov**, Ilia Roussev, Dimitar Trifonov, Valentin Penchev, *Optomechatronic System For Automated Intra Cytoplasmic Sperm Injection*, Jan 2015, *Journal of Theoretical and Applied Mechanics*, vol.45, Nr.4, pp.3-14
3. Florin IONESCU · Dragos AROTARITEI · George CONSTANTIN · Radu DOBRESCU · Kostadin **KOSTADINOV** · Florin STRATULAT · Dan STEFANOIU Virtual Manufacturing Lines: A Modern Tool For Industry And Education Forth International Conference "Sustainable development in conditions of economic instability", June 2015, at Satu Mare, Romania, Volume: pp.155-166
4. Ilie Talpasanu, Florin Ionescu, Kostadin **Kostadinov**, Inverse Dynamics and Design Analysis for a 6 degrees of Freedom Manipulator with Micro and Nano precision for biomedical Applications; In book: INVERSE PROBLEMS AND COMPUTATIONAL MECHANICS, vol.2,, Edition: 2015, Chapter: Inverse Dynamics and Design Analysis for a 6 degrees of Freedom Manipulator with Micro and Nano precision for biomedical Applications; Publisher: Editura Academiei Romane Bucuresti, p.19.
5. **Kostadinov**, K., Hydro-MiNTS Approach for Development of Integrated Microrobotic System for Innovative Micro & Nano Biomedical Applications, Proceedings of the XII Int. Conference on Systems, Automatic control and Measurements, Edited by Vlastimir Nolic, Dragan Antic, Darko Mitic, 11/2014: pp. 17-24; Unigraf X-Copy., ISBN: 978-86-6125-117-7
6. **Kostadinov**, K., Vl. Kotev, D. Penchev, Force sensing of teleoperated robotized cell injection, in Eds.: N. Mastorakis et al, *Advances in Robotics, Mechatronics and Circuits*, July, 2014, Santorini, Greece, ISBN 976-1-61804-242-2, pp.160-163
7. Vl. Kotev, F. Ionescu, **Kostadinov**, K., Design and development of a robotized system for biological cells manipulations, ICBBM2014, In Ed. E. Djukendjiev, Proceedings of the 10th Baltic-Bulgarian Conference on Bionics and prosthetics, biomechanics and mechanics, mechatronics and robotics, June 2-7, 2014, Liepaya, Latvia, RTU Press, Riga, 2014, ISBN 978-9934-10-573-9, pp.73-81.
8. **Kostadinov**, K., Chakarov, D., Shulev, A., & Tiankov, T. (2013). A Robot for Cell Injection: Modeling, Design and Experimental Validation. *International Journal of Intelligent Mechatronics and Robotics (IJIMR)*, 3(3), pp.77-98. doi:10.4018/IJIMR.2013070106
9. **Kostadinov** K., D. Trifonov, T. Tjankov, A. Shulev, I. Vuchkov. Concept design and experimental set-up of microfluidic device for single-cell immobilization. Proceeding of the 9th Baltic, International Conference on Bionics and Prosthetics and Mechanics, Mechatronics and Robotics, June 17-21, Vol.9, 2013, pp. 134-139, Riga, Latvia. (ISBN 978-9934-8409-0-6).
10. Majlis B. Y., K. **Kostadinov**, A. S. Bhatti (Eds.), *Nanotechnology in the Edge of Convergence*, 05/2013; NAM S&T Centre, p.230
11. Tiankov, T., Trifonov, D., Chakarov, D., Shulev, A., **Kostadinov**, K., "Microfluidic Mechatronic Device – Basic Unit for Automation of Cell Microinjection", 13th Mechatronics forum International Conference, Proceedings vol. 2/3, September 17-19.2012, Johannes Kepler University, Linz, Austria, Trauner Verlag, ISBN: 978-3-99033-045-6, pp: 476-481.
12. **K. KOSTADINOV**, D. CHAKAROV, **Chapter 21 "IMPEDANCE CONTROLLED MECHATRONIC SYSTEMS for Autonomous Intelligent Devices"**, pp.385-408
13. **K. KOSTADINOV**, **Chapter 22 „HYDRO-MINA ROBOT TECHNOLOGY FOR MICRO AND NANO MANIPULATION IN MANUFACTURING OF MICRO PRODUCTS"**, pp.409-419
in Book Editors: Dr Jitendra R. Raol, Dr. Ajith Gopal, *Mobile Intelligent Autonomous Systems*, CRC Press(Taylor & Francis), Florida, USA, Aug. 2012. www.crcpress.com
14. Shulev Ass., Il. Roussev, **K. Kostadinov**, Force Sensor for Cell Injection and Characterization, in Conference Proceedings Edited by: Volkmar Eichhorn, Hui Xie, Rencheng Liu & Miao Yu, International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale (3M-NANO) 29 August - 1 September 2012, Xi'an, China, pp.335-338, IEEE Catalog Number: CFP123MN-CDR, ISBN: 978-1-4673-4589-7
15. Assen Shulev, **K. Kostadinov**, T. Tiankov, and Ilia Roussev, Optical Positioning Control of a 3D Micromanipulator, Accepted for publication in *International Journal of Optomechatronics*, ISSN 1559-9612 and presented in 3M-NANO International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale, Changchun, China, 29.08-02.09.2011
16. Valchev G., D. Dantchev, **K. Kostadinov**, On the Forces between Micro and Nano Objects and the Gripper, *International*

- Journal of Intelligent Mechatronics and Robotics (IJIMR)*, 2(2), pp.15-33, April-June 2012, IGI Global, Hershey, PA, USA, ISSN: 2156-1664; presented in 3M-NANO International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale, Changchun, China, 29.08-02.09.2011
17. **K.G. Kostadinov**, D.S. Trifonov, M.A. Al-Wahab, V.F. Kotev and T.P. Petrov, CD-Based Microfluidic Device for Automated Immobilization and Microinjection of Biological Cell, *Journal of Micro and Nanosystems*, Volume 3, Issue 3, September 2011, Pages 236-249, ISSN 1876-4029
 18. Fl. Ionescu, **K. Kostadinov**, St. Arghir, Dr. Arotaritei, Hybrid Micro-Nano Robot for Cell and Cristal Manipulations, *Journal of Control Engineering and Applied Informatics*, Vol 13, No 2 (2011), pp.56-63.
 19. R. Kasper, M. Al-Wahab, **K. Kostadinov** and T. Tiankov, Micro/Nano-Manipulators with Structured piezo-ceramic actuators, in Eds.: J.-L. Ferrier, Al. Bernard, Ol. Gusikhin, K. Madani, Proc. of ICINCO 2011, Vol.2., Noordwijk-hout, The Netherlands 28-31 July, 2011, pp.242-247, ISBN:978-989-8425-75-1, **SciTePress**, Portugal.
 20. D. S. Trifonov, Kostadin G. **Kostadinov**, M. A. Al-Wahab, V.F. Kotev, Computer Simulation of CD-based Injection-Moulded Micro-patterned Polymer Substrates for Cell Immobilization, in *Journal of Materials Science and Engineering* 5 (2011), pp.110-119, Impact factor of this journal 2010-08-05: **0.2334**, ISSN 1934-8959.
 21. **K. Kostadinov**, Robot Technology in Hybrid Assembly Approach for Precise Manufacturing of Microproducts, Proceedings of the 12th Mechatronics Forum Biennial International Conference June 28-30, 2010, Swiss Federal Institute of Technology, ETH Zurich, Switzerland, Book 1, pp. 293-300.
 22. D. Trifonov, **K. Kostadinov**, M. Al-Wahab, V. Kotev, T. Petrov. Design and Investigation of Micro-Patterned Injection-Moulded Polymer Substrates for Use in CD-based Microfluidics for Cell Manipulation. The 6th Intern. Conference on Micro Manufacturing ICOMM/4M 2010, April 5-8, 2010 Madison, Wisconsin USA, pp. 379-385.
 23. Stavrov Vl., Em. Tomerov, Ch. Hardalov, D. Dantchev, **K. Kostadinov**, G. Stavreva, Evst. Apostolov, As. Shulev, Anna Andonova, M. Al-Wahab, Low Voltage Thermo-Mechanically Driven Monolithic Microgripper with Piezoresistive Feedback, in *Precision Assembly Technologies and Systems: 5th Ifip Wg 5.5 International Precision Assembly Seminar*, Ipas 2010, Chamonix, France, February 14-17, 2010, Proceedings, *Volume 315 of IFIP Advances in Information and Communication Technology Series*, Ed. Sv. Ratchev, Publisher Springer, 2010, ISBN 3642115977, 9783642115974, pp.207-214.

Annex #2

II. Papers for technology transfer and Innovation:

24. Kostadin **Kostadinov**: Reforms for socially responsible science, BG journal *Science*, issue 3, 2015, pp.25-28
25. Yorgova Ts., S. Petkova, **K. Kostadinov**, The GIS-TransferCenter technology transfer network in Bulgaria, *Steinbeis Transfermagazin* 3/2013, pp.14-15.
26. **Kostadinov K** Problems of Bulgarian scientists in their participation in the European Framework Programmes, Public Discussion Club for Science and Higher Education, Nr.1/2012, Year 2, ISSN1314-4820, April 2012, 30 p.
27. **K. Kostadinov**, G. Raichevski, Tsv. Yorgova, Model for Effective "Science – Business" Collaboration in Bulgarian Economy 4th Int. Conf. for Entrepreneurship, Innovation and Regional Development ICEIRD 2011, 5 – 7 My 2011 Ohrid, Macedonia (Skopje).
28. **Kostadinov K**, Challenges to the Bulgarian policy for science and innovation, BG Journal "Science", Nr.2, 2010, vol. XX, pp.12-17.
29. **Kostadinov K.**, (Editor.), Economy and business planning for technology oriented small and medium sized enterprises, 2009, p.267, Academic Publishing House "Prof. M. Drinov" and GIS-TransferCenter, ISBN 978-954-322-235-3, 2nd Edition, (in Bulgarian)
30. **Kostadinov K.**, Academic science as a source for innovation (Chapter 7 – pp.161-190), In Ed.: M. Petrov etc.: Innovations. European, national and regional policy", 2008, ISBN 978-954-9456-12-7, (in Bulgarian).
31. **Kostadinov K.**, (Editor), Entrepreneurship and business planning for technology oriented start ups, 2007, p.323, Academic Publishing House "Prof. M. Drinov" and GIS-TransferCenter, ISBN 978-954-322-235-3. (in Bulgarian)
32. Popov Al., **K. Kostadinov**, Technology transfer of research products, *Journal of Bulgarian Academy of Sciences*, year CXVIII, No.1/2005, pp.45-47 (in Bulgarian).
33. **Kostadinov K.**, Al. Popov, BAS-Projects and their realization in Bulgarian economics with assistance of GIS-Transfer Center, *Journal of Bulgarian Academy of Sciences*, year CXVIII, No.2/2005, pp.52-57. (in Bulgarian).
34. **Kostadinov K.**, Al. Popov, Technology transfer and innovation in Bulgaria, *Journal of Bulgarian Academy of Sciences*, year CXVII, No.4/2004, pp. 80-87, (in Bulgarian).
35. **Kostadinov K.**, Researchers and Scientists and their role in the knowledge-based society with accent in the triangle – knowledge-education and business, *Journal "Science"*, vol. XV, 2005, pp.48-52, (in Bulgarian)

List of recent patents and applications pending (2009-2012)

1. **Kostadinov** K., D. Chakarov, T. Tiankov, Fl. Ionescu, Robot for micro and nano manipulations, **BG Patent** Nr. 110432, 28.07.2009
2. Schoeder J., M. Al-Wahab, K. **Kostadinov**, Micromanipulator, **BG Patent** Nr. 110436, 04.08.2009
3. **Kostadinov** K., K. Delchev, Vl. Vitkov, Device for markers, **BG patent** Nr. 110592, 28.01.2010.
4. **Kostadinov** K., P. Genova, Vl. Kotev T. Tiankov, Microelectromechanical device for manipulators, **BG patent** Nr. 110597, 15.02.2010
5. Ranchev, S., K. **Kostadinov**, T. Tiankov, Device for chips control, **BG patent** Nr. 110645, 04.05.2010
6. **Kostadinov** K., P. Genova, Sp. Konstantinov, Iv. Chavdarov, Device for Bioreactor, **BG patent** Nr.110652, 13.05.2010
7. Ranchev, S., K. **Kostadinov**, T. Tiankov, Vacuum gripping device, *Application for BG patent* Nr. 110763, 30.09.2010
8. **Kostadinov** K., D. Trifonov, T. Tiankov, Assen Shulev, Feeding device for biological cells, *Application for BG patent* Nr. 110855, 11.02.2011
9. Trifonov D., T. Tiankov, K. **Kostadinov**, As. Shulev, Micro fluidic device for biological cells, *Application for BG patent* Nr. 111365, 10.12.2012
- 10.

Project portfolio

Projects under implementation:

1. FP7 Project **No. 612641 Biomedical Robotics and Applications — BioRA (01.01.2014-31.12.2017)** - **Head** of BG team.
2. H2020 641003 Connecting Energy National Contact Points in a pro-active network under Societal Challenge 3 'Secure, clean and efficient energy' in Horizon 2020, 34000 Euro – **senior expert**
3. H2020-Adhoc-2014-20 643334 Establishing services Enhancing the innovation management capacity of SMEs in Bulgaria - 01.01.2015-31.12.2016 – 30500 Euro - **senior expert**

Projects closed:

4. FP7 Project No. 257695 "**Virtual Embodiment and Robotic Re-Embodiment**", VERE (**01.01.2014-31.12.2015**) - **Member** of team from the Institute of Mechanics–Bulgarian Academy of Sciences(BAS)
5. "**Robotic system for in vitro fertilization**" contract № BG161PO003-1.1.05-0035-C0001, BG161RO003-1.1.05 scheme that is implemented with the financial support of Operational Programme "Development of the Competitiveness of the Bulgarian Economy" 2007-2013, co-financed by the European Union through the European regional Development Fund, **Electronic design engineer** for startup company Microna Ltd, October 23, 2012 – 22.10.2014.
6. **Specialized mechatronic systems for micro- and nano-technologies (SpeSy-MiNT) funded by the Bulgarian National Science Foundation under the Contract Nr. DO 0171/16.12.2008-15.12.2012–Head** of the team.
7. EC CIP Project *ElIRC-3-BG* "Network for provision of integrated services in support of business and innovation in Bulgaria" as a partner in EEN consortium led by ARC Fund (2013-2014) **Expert & administrative responsible**
8. EC FP7 260748 Project Fit-to-Health Promoting participation of high-tech research-intensive SMEs in Health (01.10.2010-30.09.2013) **Expert & administrative responsible**
9. EC CIP Project EURESP+ (European Regional Environmental Services Platform PLUS) (11.2011-10.2013) **Expert & administrative responsible**
10. EC **FP7** 218878 Project Transnational Cooperation of the European Network of NCP SME (01.02.2008—31.12.2012), **Head** of BG team.
11. EC CIP Project 150325 *ElIRC-2-BG* "Network for provision of integrated services in support of business and innovation in Bulgaria" as a partner in EEN consortium led by ARC Fund (2007-2012) **Expert & administrative responsible**
12. EC CIP Project Nr.249821 EU4SME (09.2010 – 12.2011) **expert & administrative responsible**
13. **FP6-2004-NMP-NI-4 Project** No: IP 026622-2 HYDROMEL "**Hybrid ultra-precision manufacturing process based on positional- and self-assembly for complex micro-products**", 472 000 Euro (01.10.2006-30.09.2010) **Head** of team from the Institute of Mechanics – BAS
14. **FP6 SME GO HEALTH (01.02.07-31.12.2010)**. – **expert & administrative responsible**
15. **DFG MechHaPiCS - 2 (12.2007– 12.2009) Head of Bulgarian research team**
16. **DFG MechHaPiCS (10.2005– 09.2007) Head of Bulgarian research team**
17. **Interreg IIIc Project** "INTER GET UP - an interregional approach for the stimulation of technology-oriented start-ups in Europe" (10.2004-09.2006), **head** of Bulgarian team