

SERGEI L. BEZRUKOV

Curriculum Vitae

- EDUCATION:** 1996: **Habilitation** in Computer Science, University of Paderborn, Germany.
Thesis: “Discrete Extremal Problems on Graphs and Posets”.
1984: **Ph.D.** in Mathematics and Physics, Moscow State University (MSU).
Thesis: “Isoperimetric Type Problems on the Unit Cube”.
1980: **M.S.** (summa cum laude) in Applied Mathematics, MSU.
- AREAS OF EXPERTISE:** Discrete Mathematics, Computer Science, Electrical Engineering: discrete extremal problems, combinatorics, coding theory, networking, partitioning and embedding of graphs, complexity theory, programming, VLSI, embedded systems design, microcontroller-based applications.
- ACADEMIC EXPERIENCE:** 1999 - date Assistant Professor (1999–2001), Associate Professor (2001–2006), Full Professor (since 2006), University of Wisconsin - Superior
1995 - 1998 Assistant Professor, since 1996 Privatdozent, University of Paderborn, (Germany).
1987 - 1998 Researcher, since 1993 Senior Researcher, Institute for Problems of Information Transmission, Russian Academy of Sciences, (Moscow).
1983 - 1987 Researcher, Institute for Problems of Cybernetics, Russian Academy of Sciences, (Moscow).
- TEACHING EXPERIENCE:** 1999 - date University of Wisconsin - Superior:
Introduction to Computer Science, Computer Programming (Assembler, Pascal, Java, C/C++), Internet Programming, Linear Algebra, Introduction to Abstract Mathematics, Discrete Structures, Introduction to Computer Architectures, Computer Architectures, Numerical Analysis, Algorithm Design, Operating Systems, Embedded Systems Programming.
1992 - 1998 University of Paderborn (Germany):
Theory of Graphs, Efficient Algorithms, Communication in Networks, Computational Geometry, Approximation Algorithms.
1979 - 1984 Moscow State University (Russia):
Mathematical Logic, Elements of Cybernetics, Discrete Analysis.
- RESEARCH VISITS:** 2008, 03, 00 Universitat Politecnica de Catalunya, (Barcelona, Spain)
2006, 05, 02 University of California, Riverside
2004, 99 University of Rostock, (Germany)
2003 University of Paderborn, (Germany)
2001 University of Trento, (Italy)
2001, 95, 92 University of Bielefeld, (Germany)

2000 Technical University of Munich, (Germany)
 1994 FernUniversität-GH Hagen, (Germany)
 1993 Free University of Berlin, (Germany)
 1993 Cambridge University, (United Kingdom)
 1992 - 1995 University of Paderborn, (Germany)
 1992 Institute IMAG (Grenoble, France)
 1991 Technical University of Eindhoven, (the Netherlands)
 1991, 92, 96 Universities of Rome and Salerno, (Italy)
 1991, 96, 01 Mathematical Institute, Hungarian Academy of Sciences, Budapest
 1989, 90, 92 Universities of Rostock and Greifswald (Germany)
 1988 Mathematical Institute, Czech Academy of Sciences, Prague

INDUSTRIAL EXPERIENCE: 1999 - 2017 Research and software development in the area of fast computer graphic algorithms, with SevenCs (Hamburg, Germany).
 1987 - 1988 Joint research in the area of reliable data storage with industrial institutions in Moscow and Bratislava (Slovak Republic).
 1984 - 1987 Design of CAD tools and graphical support of expert systems.
 1982 - 1985 Circuit and topology design of two VLSI chips, CMOS technology.

μCONTROLLER EXPERIENCE:

- Texas Instruments: MSP430F2xx, MSP430F4xx: MSP430FR series
 IDE: IAR Embedded Workbench)
- Microchip: PIC16, PIC18, assembler, C - fluent
 IDE: MPLAB, HI-TECH and PIC18 C compilers
- Atmel AVR8: assembler - fluent
 IDE: AVR Studio
- Silicon Labs C8051: assembler, C - fluent
 IDE: Silicon Labs IDE, Keil C compiler
- ST Microelectronics: STM8L
- Renesas: RL78 series
- ST Microelectronics: STM32F0 series
- Silicon Labs: ARM Cortex-M3 EFM32 series
- Freescale/NXP: Kinetis ARM Cortex-M0/M3/M4F series
- Cypress: ARM PSoC-4 series
- Broadcom 20737A: ARM Cortex-M3

PROGRAMMING EXPERIENCE:

- Intel assembler (teach CSCI324 @UWS, 13 years)
<http://mcs.uwsuper.edu/sb/324/>
- GNU C/C++ (teach CSCI202 @UWS, 20 years)
<http://mcs.uwsuper.edu/sb/202/>
- Java (teach CSCI201 @UWS, 20 years)
<http://mcs.uwsuper.edu/sb/201/>
- PHP, Perl, JavaScript (teach CSCI250 @UWS, 20 years)
<http://mcs.uwsuper.edu/sb/250/>
- CSCI327: Embedded Systems Programming course @UWS (10 years)
<http://mcs.uwsuper.edu/sb/327/>

- Older languages: FORTRAN, Algol, DEC assembler (PDP-11)
- Operating systems: UNIX (Solaris), Linux (SuSE), Windows

- OTHER
- Referee for a number of international conferences: WG, ODSA, ESA, MFCS.
- PROFESSIONAL
- Referee for Discrete Mathematics, Order, Journal of Combinatorial Theory
- ACTIVITIES:
- Discrete Applied Mathematics (about 6 reports per year).
 - Referee for several NSA grant proposals

- AWARDS
- Excellence in Scholarship Award from UWS in 2009
 - Appreciation Certificate from the McNair program 2010
 - Radio Magazine award for one of the best publications of 2010
 - Radio Magazine award for one of the best publications of 2012
 - Best project of the month award from site radiokot.ru (June 2014)
 - Best project of the month award from site radiokot.ru (October 2014)
 - Best summer project award from Silicon Labs (August 2015)

List of publications

Papers in Mathematics and Computer Science areas

Preprints can be downloaded from <http://mcs.uwsuper.edu/sb/publications.html>

1. *New infinite family of regular edge-isoperimetric graphs*, (with P. Bulatovic, N. Kuzmanovski), to appear in *Theoretical Computer Science* in 2018.
2. *On data recovery in distributed databases*, (with U. Leck, V. Piotrowski), *Lecture Notes in Computer Science*, vol. 7777, 419–431, 2013.
3. *Properties of graded posets preserved by some operations*, (with K. Engel), *The Mathematics of Paul Erdős (2nd Ed.)*, vol 1, 39–46, Springer 2013.
4. *A simple proof of the Karakhanyan-Riordan theorem on the discrete even torus*, (with U. Leck), *SIAM J. Discrete Math.*, vol. 23, no. 3, 1416–1421, 2009.
5. *On the bandwidth of 3-dimensional Hamming graphs*, (with J. Balogh, L.H. Harper, A. Seress), *Theoretical Computer Science* vol. 407, No. 1-3, 488–495, 2008.
6. *The vertex-isoperimetric problem for the powers of the diamond graph*, (with M. Rius and O. Serra), *Discrete Math*, vol. 308, no. 11, 2059–2342, 2008.
7. *On Biclique Covering*, (with D. Fronček, S. Rosenberg, P. Kovář), *Discrete Math*, vol. 308, no. 2-3, 319–323, 2007.
8. *On Partitioning of Hypergraphs*, (with R. Battiti), *Discrete Math*, vol. 307, no. 14, 1737–1753, 2007.
9. *A new approach to Macaulay posets*, (with T. Pfaff and V.P. Piotrowski), *Journal of Comb. Theory*, vol. A-105, 2004, no. 2, 161–184.
10. *Macaulay Posets*, (with U. Leck), *The Electronic Journal of Combinatorics*, *Dynamic Survey DS12*, 2004.
11. *Permutation routing in optical MIN's with minimum number of stages*, (with N. Das, B.B. Bhattacharya, R. Menon, A. Sarkar), *Journal of System Architectures*, vol. 48, 2003, 311–323.
12. *Edge isoperimetric problems for cartesian powers of regular graphs*, (with R. Elsässer), *Theor. Comput. Sci.*, vol. 307, 2003, 473–492.
13. *Discrete extremal problems*, invited article, to appear in *Big Russian Encyclopedia (new Edition)*.
14. *A local-global principle for isoperimetric problems*, (with O. Serra), *Discr. Math.*, vol. 257, 2002, no. 2-3, 285-309.
15. *A New Family of Macaulay Posets*, (with J. Peters), *The McNair Scholars Journal*, vol. 2, 2001, 137-156.
16. *Embedding complete trees into the hypercube*, *Discr. Appl. Math.*, vol. 110, 2001, no. 2-3, 101-119.

17. *New spectral lower bounds on the bisection width of graphs*, (with R. Elsässer, B. Monien, R. Preis, J.-P. Tillich), in Proc. Int. Confer. Graph Theor. Concepts in Comp. Sci. (WG'00), Ulrich Brandes, Dorothea Wagner (eds.), Lecture Notes Comp. Sci., vol. 1928, Springer Verlag, 2000, 23-34.
18. *The theory of Macaulay posets*, (with U. Leck), in: Numbers, Information and Complexity, I. Althöfer, N. Cai, G. Dueck, L. Khachatryan, M. Pinsker, A. Sarközy, I. Wegener and Z. Zhang (eds.), Kluwer Academic Publishers, 2000, 75-94.
19. *An edge isoperimetric problem for powers of the Petersen graph*, (with R. Elsässer, S. Das), Annals of Combinatorics, vol. 4, 2000, 153-169.
20. *The congestion of n -cube layout on a rectangular grid*, (with J.D. Chavez, L.H. Harper, M. Röttger, U.-P. Schroeder), Discr. Math., vol. 213 (2000), 13-19.
21. *Edge isoperimetric problems on graphs*, in: Graph Theory and Combinatorial Biology, Bolyai Soc. Math. Stud. 7, L. Lovasz, A. Gyarfás, G.O.H. Katona, A. Recski, L. Szekely eds., Budapest 1999, 157-197.
22. *On an equivalence in discrete extremal problems*, Discr. Math., vol. 203, 1999, no. 1, 9-22.
23. *On bounds for the k -partitioning of graphs*, (with R. Elsässer, U.-P. Schroeder), in Proc. 5th Annual International Conference, COCOON'99, Tokyo, Japan, Lect. Notes. Comp. Sci., vol. 1627, Springer Verlag, 1999.
24. *A Kruskal-Katona theorem for the linear lattice*, (with A. Blokhuis), Europ. J. Combin., vol. 20, 1999, no. 2, 123-130.
25. *Permutation admissibility in shuffle-exchange networks*, (with B.B. Bhattacharya, N. Das, R. Menon), in Proc. 6th Intern. Conf. on High Performance Computing, (HiPC'98), Calcutta, India, 1998, 270-276.
26. *A local-global principle for Macaulay posets*, (with O. Serra, X. Portas), Order, vol. 16, 1999, 57-76.
27. *The spider poset is Macaulay*, (with R. Elsässer), J. Comb. Theory, vol. A-90, 2000, 1-26.
28. *On k -partitioning of Hamming graphs*, (with R. Elsässer, U.-P. Schroeder), Discr. Appl. Math., vol. 95 (1999), 127-140.
29. *Embedding of hypercubes into grids*, (with J.D. Chavez, L.H. Harper, M. Röttger, U.-P. Schroeder), in Proc. Mathematical Foundations of Computer Science (MFCS '98), Brno, Czech Republic, Lect. Notes. Comp. Sci., vol. 1450, Springer Verlag, 1998, 693-701.
30. *The cyclic wirelength of trees*, (with U.-P. Schroeder), Discr. Appl. Math., vol. 87 (1998), 275-277.
31. *On posets whose products are Macaulay*, J. Combin. Theory, vol. A-84, 1998, No. 2, 157-170.

32. *On refinements of 2-dimensional grids*, (with W. Unger), Technical Report tr-rsfb-97-046, University of Paderborn, 1997, submitted.
33. *On the embedding of refinements of 2-dimensional grids*, (with F. d'Amore, L. Becchetti, A. Marchetti-Spaccamela, M. Ottaviani, R. Preis, M. Röttger, U.-P. Schroeder), Proc. of the 3-d Int. Confer, EURO-PAR'97, Lect. Notes. Comp. Sci., vol. 1300, Springer Verlag, 1997, 950-957.
34. *Embedding ladders and caterpillars into the hypercube*, (with B. Monien, W. Unger, G. Wechsung), Discrete Appl. Math., vol. 82, No. 1-3 (1998), 19-27.
35. *On k -partitioning the n -cube*, in Proc. Int. Confer. Graph Theor. Concepts in Comp. Sci. (WG '96), Como, Italy, Lecture Notes Comp. Sci., vol. 1197, Springer Verlag, 1997, 44-55.
36. *On partitioning grids into equal parts*, (with B. Rován), Computers and Artif. Intell., vol. 16, 1997, 153-165.
37. *On central spanning trees of a graph*, (with F. Kaderali, W. Poguntke), in Proc. 8th Franko-Japanese-4th Franko-Chinese Conf. Combin. and Comp. Sci., Brest, July 3-5, 1995, Lecture Notes Comp. Sci. vol. 1120, Springer Verlag, 1996, 53-58.
38. *Properties of graded posets preserved by some operations*, (with K. Engel), in: Mathematics of Paul Erdős (ed. R.L. Graham, J. Nešetřil), Springer Verlag, 1996, 79-85.
39. *Edge isoperimetric theorems for integer point arrays*, (with R. Ahlswede), Appl. Math. Lett., vol. 8, 1995, No. 2, 75-80.
40. *On oriented embedding of the binary tree into the hypercube*, Combinatorics, Probability and Computing, Cambridge, vol. 3, 1994, 27-38.
41. *Isoperimetric problems in discrete spaces*, in: Extremal Problems for Finite Sets., Bolyai Soc. Math. Stud. 3, P. Frankl, Z. Füredi, G. Katona, D. Miklos eds., Budapest 1994, 59-91.
42. *On partitioning the n -cube into sets with mutual distance 1*, (with R. Ahlswede, A. Blokhuis, K. Metsch, E. Moorhouse), Appl. Math. Lett., vol. 6, 1993, 17-19.
43. *On edge numberings of the n -cube graph*, (with K. Weber, N. Grünwald), Discr. Appl. Math., vol. 46, 1993, No. 2, 99-116.
44. *Two extremal problems for oriented trellises*, Problems of Information Transmission, vol. 28, 1992, No. 2, 109-111.
45. *A Kruskal-Katona type theorem*, (with H.-D. Gronau), Rostock Math. Kolloq., vol. 46, 1992, 71-80.
46. *On superspherical graphs*, (with A. Sali), Colloq. Math. Soc. Janos Bolyai, vol. 60, 1991, 89-95.
47. *Asymptotic solution of a special equation with binomial coefficients*, (with R. Labahn), Rostock Math. Kolloq., vol. 43, 17-22.

48. *Extremal ideals of the lattice of multisets with respect to symmetric functionals*, (with V.P. Voronin), *Discretnaya Matematika*, vol. 2, 1990, No. 1 50-58.
49. *On the construction of solutions of a discrete isoperimetric problem in Hamming space*, *Math. USSR Sbornik*, vol. 63, 1989, No. 1, 81-96.
50. *Restoration of information in a distributed database system*, (with V.B. Afanasjev), in: *Proceedings of the X-th Symp. on the Redundancy in Info. Systems.*, Leningrad, 1989, Part 1, 97-100.
51. *Encoding of analog signals for discrete binary channel*, in: *Proceedings Int. Conf. Algebraic and Combinatorial Coding Theory*, Varna 1988, 12-16.
52. *Minimization of shadows in the partial mappings semilattice*, *Discretny Analiz*, Novosibirsk, vol. 46, 1988, 3-16.
53. *Specification of the maximal sized subsets of the unit cube with respect to given diameter*, *Problems of Information Transmission*, vol. XXIII, 1987, No. 1, 106-109.
54. *On minimization of boundaries in Hamming space*, *Kombinatorno-Algebraic Methods in Applied Mathematics*, Gorky University Press, 1985, 45-48.
55. *Specification of solutions of the discrete isoperimetric problem which have a critical cardinality*, *Soviet Math. Dokl.* vol. 289, 1984, No. 3, 520-524.
56. *On an isoperimetric problem*, *Discrete Analysis*, Novosibirsk, vol. 40, 1984, 1-16.
57. *A discrete isoperimetric problem*, in: *Applied Mathematics and Computer Software*, Moscow University Press, 1982, 40-44.

Papers in Electrical Engineering

English translations can be downloaded from <http://mcs.uwsuper.edu/sb/Electronics>

1. *Large LCD clock*, Radiomir magazine, no. 11 (2013), 36–38, in Russian.
2. *Ultra low-power temperature and humidity meters*, (with A. Aristov), Radio magazine Part I, no. 10 (2012) 31–35, and Part II in no. 11 (2012) 31–33, in Russian.
3. *Simple low-power thermo-hydrometer*, (with A. Aristov), Radiomir magazine, no. 11 (2011) 28–30, in Russian.
4. *LED clock with a 2" display*, (with A. Aristov), Radio magazine no. 9 (2011) 41–44, in Russian.
5. *Flood alarm with voice interface*, (with A. Aristov), Radiomir magazine no. 1 (2011) 16–19 and no. 2 (2011) 13–14, in Russian.
6. *LED clock with a 100-mm display*, (with A. Aristov), Radiomir magazine no. 10 (2010) 22–25 and no. 11 (2010) 23–24, in Russian.
7. *Low-power radiation dosimeter*, (with A. Aristov), Radio magazine no. 11 (2010) 30–22 and no. 12 (2010) 26–27, in Russian.
8. *Bipolar voltmeter for a lab power supply*, (with A. Aristov), Radio magazine no. 8 (2010) 21–23, in Russian.
9. *Automatic micro- and milli-ampermeter*, (with A. Aristov), Radio magazine no. 12 (2009) 18–21, in Russian.
10. *Low power thermo-hydrometer*, (with A. Aristov), Radiolubitel magazine no. 7 (2009) 38–41, in Russian.
11. *Infrared tachometer*, (with A. Aristov), Radioamateur magazine, no. 2-3 (2009) 42–45.
12. *Automatic frequency counter*, (with A. Aristov), Radio magazine no. 11 (2008) 18–21, in Russian.
13. *Battery-powered thermometer*, (with A. Aristov), Radiomir magazine no. 11 (2008) 24–26, in Russian.

Electronic Publications in Electrical Engineering

1. *Working with Zentri Bluetooth LE modules AMS001/002*, online publication 01/21/2018, <http://radiokot.ru/artfiles/6192/>
2. *Automatic cat feeder*, with Tanner Paulson, online publication 01/08/2018, <http://radiokot.ru/artfiles/6187/>
3. *Digital scale with FSR sensor*, with Nikola Kuzmanovski, online publication 11/22/2017, <http://radiokot.ru/circuit/digital/measure/155/>
4. *From lightning detector of A.S. Popov to AS3935*, online publication 07/25/2017, <http://radiokot.ru/circuit/digital/home/249/>
5. *Using ThingSpeak cloud server for logging and visualizing of data*, online publication 07/06/2017, <http://radiokot.ru/articles/81/>
6. *Metronome on Cypress PSoC*, online publication 06/25/2017, <http://www.dubrovenko.ru/ddssite/dshmtrow.htm>
7. *Wireless mail notifier*, with Michael Jenssen, online publication 06/21/2017, <http://radiokot.ru/circuit/digital/automat/123/>
8. *Bluetooth LE controlled car*, with Nathan Nelson, online publication 07/04/2017, <http://radiokot.ru/circuit/digital/game/68/>
9. *Implementation of Snake game on an 8x8 LED matrix*, with Matt Holcomb, online publication 06/08/2017, <http://radiokot.ru/circuit/digital/game/67/>
10. *Radio control with ZETA wireless modules*, with Jennifer Wang, online publication 10/2/2016, <http://radiokot.ru/circuit/digital/game/61/>
11. *Working with Silicon Labs WGM110 WiFi module*, online publication 8/14/2016, <http://radiokot.ru/articles/72/>
12. *Development of electronic pedometer*, with Josh Letter, online publication 7/20/2016, <http://radiokot.ru/circuit/digital/home/221/>
13. *On Silicon Labs BGM111 BLE module*, online publication 7/7/2016, <http://radiokot.ru/articles/71/>
14. *Application development on Cypress PSoC-4 series*, online publication 21/6/2016 <http://radiokot.ru/articles/70/>
15. *Implementation of standard GATT profiles on Cypress RSoC modules*, online publication 8/6/2016 <http://we.easyelectronics.ru/sypsoc/realiazciya-standartnogo-gatt-ble-profilya-na-rsoc-firmy-cypress.html>

16. *Automatic climate control in a bathroom*, (09/17/2015),
<http://community.silabs.com/t5/Projects/Automatic-climate-control-in-a-bathroom/td-p/154322/>
17. *Low-power temperature/humidity meters*, (08/24/2015)
<http://community.silabs.com/t5/Projects/Low-power-temperature-humidity-meters/td-p/152710/>
18. *Bluetooth Smart broadcaster on Cypress PSoC*, (07/01/2016)
<http://we.easyelectronics.ru/sypsoc/bluetooth-smart-broadcaster-na-rsoc-firmy-cypress.html>
19. *Development of Bluetooth Smart applications with Anaren Atmosphere studio*, (11/30/2015)
<http://radiokot.ru/articles/64/>
20. *Weather station with wireless sensor*, (05/17/2015)
<http://radiokot.ru/circuit/digital/home/207/>
See English translation here:
<http://community.silabs.com/t5/Projects/Weather-station-with-wireless-temperature-and-humidity-sensor/m-p/152693>
21. *On combined environmental sensors MS8607 and HDC1000*, (04/09/2015)
<http://www.dubrovenko.ru/ddssite/dshsenmw.htm>
22. *RF modules for wireless communication*, (09/27/2014),
<http://radiokot.ru/circuit/digital/security/32/> (Part I)
<http://radiokot.ru/circuit/digital/security/33/> (Part II)
<http://radiokot.ru/circuit/digital/security/34/> (Part III)
23. *On USB-Serial convertex CY7C65211 and pressure sensor LPS25H*, (08/15/2014),
<http://radiokot.ru/circuit/digital/measure/120/>
24. *Two gadgets based on counters*, (05/25/2014),
<http://radiokot.ru/circuit/digital/home/200/>
25. *On micropower microcontrollers with LCD driver*, (01/23/2014),
<http://radiokot.ru/circuit/digital/home/189/>
26. *Network logger and server based on WIZ820io module*, (11/19/2013),
<http://radiokot.ru/circuit/digital/measure/114>
27. *Inexpensive programmer/debugger for RL78 microcontrollers*, (10/24/2013),
<http://radiokot.ru/circuit/digital/pcmod/52/>
28. *On temperature/humidity sensors family ChipCap 2*, (10/16/2013),
<http://radiokot.ru/circuit/digital/home/166/>
29. *Weather station ... without microcontrollers*, (07/02/2013),
<http://radiokot.ru/circuit/digital/home/164/>
30. *Application of Freescale Kinetis ARM microcontrollers in low-power designs*, (05/28/2013),
<http://radiokot.ru/articles/50/>
31. *Automatic air humidity control in a bath room*, (04/09/2013),
<http://radiokot.ru/circuit/digital/automat/54/>

32. *DC-DC voltage converter for bright LEDs*, (02/11/2013),
<http://radiokot.ru/circuit/power/converter/49/>
33. *Charge controller for NiMH batteries on DS2715*, (02/11/2013),
<http://radiokot.ru/circuit/power/charger/32/>
34. *On Si7005 humidity sensor*, (01/15/2013),
<http://radiokot.ru/circuit/digital/measure/85/>
35. *Using radio module A110LR09A for wireless data transmission*, (12/27/2012),
http://radiokot.ru/circuit/analog/receiv_transmit/33/
36. *On LCD driver CP2401*, (08/21/2012)
<http://we.easyelectronics.ru/part/ob-ispolzovanii-drayvera-zhki-cp2401.html>
37. *Micropower Thermo/Baro/Hydrometer*, (08/14/2012),
<http://radiokot.ru/circuit/digital/home/136/>
38. *Micropower thermo/hydrometer of RL78 microcontroller and HHH-6130 sensor*, (07/26/2012),
<http://radiokot.ru/circuit/digital/home/135/>
39. *Programmer/debugger for Renesas RL78 family microcontrollers*, (07/26/2012),
<http://radiokot.ru/circuit/digital/pcmod/41/>
40. *Pyrometer for contactless temperature measurements*, (07/05/2012),
<http://radiokot.ru/circuit/digital/measure/71/>
41. *Sun calculator for plants*, (06/19/2012),
<http://radiokot.ru/circuit/digital/home/133/>
42. *Solar-powered thermo-hydrometer*, (05/15/2012),
<http://radiokot.ru/circuit/digital/home/129/>
43. *USB switch*, (05/10/2012),
<http://radiokot.ru/circuit/digital/pcmod/40/>
44. *Implementation of USB driver for C8051 family microcontrollers*, (03/06/2012),
<http://radiokot.ru/articles/44/> (Part I)
<http://radiokot.ru/articles/45/> (Part II)
45. *Digital lux meter*, (02/10/2012),
<http://radiokot.ru/circuit/digital/measure/67/>
46. *USB programmer/debugger for C8051 microcontroller family*, (11/15/2011),
<http://radiokot.ru/articles/38/>
47. *Saw waveform generator for varicaps*, (03/11/2011),
<http://radiokot.ru/circuit/digital/measure/35/>
48. *Automatic water fountain for pets*, (03/10/2011),
<http://radiokot.ru/circuit/digital/home/67/>

49. *Automatic feeder for pets*, (02/22/2011),
<http://radiokot.ru/circuit/digital/home/66>
50. *Improvement and reprogramming LitterMaid Mega litter box cleaner for cats*, (03/11/2010),
<http://radiokot.ru/lab/controller/51>