

Valeri Souchkov: Selected Publications Related to TRIZ

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Books:

1. V. Souchkov, *Knowledge-Based Support for Innovative Design*, University of Twente, The Netherlands, 1998, 178 p.
http://www.xtriz.com/publications/Souchkov_KBSID.pdf
2. B. Koltze & V. Souchkov. *Systematische Innovation: TRIZ-Anwendung in der Produktund Prozessentwicklung*, Carl Hanser Verlag, 2010, 342 p. (in German).

Edited and adapted books:

3. V. Souchkov (editor): Yu. Salamatov, *TRIZ: The Right Solution at The Right Time*, Insytec, The Netherlands, 1999, 256 p. Insytec BV, the Netherlands, 1999, Nippon Business Publications, Japanese edition by Toru Nakagawa, 2001

Course books:

4. V.V. Souchkov, *TRIZ User Guide*, Insytec, 2000, 186p.
5. Souchkov V. *Guide to TRIZ Techniques for Technology and Engineering: Course Guide*, ICG T&C, 2003-2012, 240 p.
6. Souchkov V. *Guide to TRIZ Techniques for Business and Management: Course Guide*, ICG T&C, 2007-2012, 142 p.

Chapters in books and scientific reports:

7. V.V. Souchkov. "Expert system Invention Machine Standards". *Report 3.15-88*, Belarus State University of Informatics and Radioelectronics, Minsk, USSR, 1989 (In Russian).
8. V.V. Souchkov. "Using object-oriented technology for computer aided creative design". *Report 3.15-90*, Belarus State University of Informatics and Radioelectronics, Minsk, USSR, 1990 (In Russian)
9. V. Souchkov. "Inventive Machine Standards" (Chapter), in *Invention Machine Software Guide*, Invention Machine Laboratory, Minsk 1992.
10. V.V. Sushkov. "Representation of innovative knowledge", University of Twente, The Netherlands, 1993.
11. V. Souchkov. "TRIZ: A Systematic Approach To Conceptual Design". (Chapter), in *Universal Design Theory* (H. Grabowski, S. Rude & G. Grein, eds), Shaker Verlag, Germany, 1998, 223-237.
12. V. Souchkov & P. Kommers. "Knowledge-based Methodology for Inventive Problem Solving", (Chapter), in *Conceptual Support Systems for Learning*, IOS Press, Piet Kommers (ed.), 2004, 261-277.
13. Souchkov V. "TRIZ and Technology Roadmapping" (chapter), in *The Power of Design: Product Innovation in Sustainable Energy Technologies* (Angele Reinders, Jan Carel Diehl, Han Brezet, eds.), Wiley, November 2012, 64-90.

Articles in journals:

14. V.V. Souchkov. "Analysis of the Evolution of Intelligent Systems Based on TRIZ". *Journal of TRIZ*, USSR, 2.1, 1991, 35-41 (In Russian).
15. N.J.I. Mars, V.V. Sushkov & P.M. Wognum. "Computer Aided Creative Engineering Design", *Journal of TRIZ*, Russia, 1994 (in Russian).
16. V. V. Sushkov, N.J.I. Mars & P. M. Wognum , "TIPS: Introduction to a Theory for Creative Design", in *Artificial Intelligence in Engineering*, Elsevier, vol. 9, 1995, 177-189.

17. V. Souchkov. "TRIZ and Technosocial Competition." *The TRIZ Journal*, February 1997. <http://www.xtriz.com/publications/TechnosocialCompetition.pdf>
18. V. Souchkov, "Four views on TRIZ", *The TRIZ Journal*, March, 1999. <http://www.xtriz.com/publications/4viewsTRIZ.pdf>
19. V. Souchkov & L. Visser, "TRIZ: A Catalyst for Innovation", *Vindingsrijk*, February 2003. http://www.xtriz.com/Training/TRIZasCatalyst_English.pdf
20. Souchkov V. & Stevens J. "Systematisch Innoveren met TRIZ", *Constructeur*, 9, 2005 (in Dutch).
21. Souchkov V. & Stevens J. " De Contradictiematrix ", *Constructeur*, 10, 2005 (in Dutch).
22. Souchkov V. & Stevens J. "Tecnische Evolutietrends", *Constructeur*, 11, 2005 (in Dutch).
23. Souchkov V. & Stevens J. "TRIZ in Real Life: de Praktijk", *Constructeur*, 2, 2006 (in Dutch).
24. Souchkov V. & Stevens J, "idéLAB: The "DUTCH" TRIZ Experience", *The Online TRIZ Journal*, September 2006. <http://www.triz-journal.com/archives/2006/09/07.pdf>
25. Souchkov V., Hoeboer R. & van Zutphen M., "Application of RCA+ to Solve Business Problems", *The Online TRIZ Journal*, February 2007. <http://www.trizjournal.com/archives/2007/02/06/>
26. Souchkov V., "TRIZ Components Defined", *The Online TRIZ Journal*, April 2007. <http://www.xtriz.com/Annotated%20list%20of%20main%20TRIZ%20tools%20and%20techniques.pdf>
27. Souchkov V., "Differentiating Among the Five Levels of Solutions", *The Online TRIZ Journal*, July 2007. <http://www.triz-journal.com/archives/2007/07/02/>
28. Souchkov V., de Vries R. & Mannak J., "Remote Team Problem Solving With TRIZ", *The Online TRIZ Journal*, June 2008. <http://www.triz-journal.com/archives/2008/06/02/>

Articles published in conference proceedings:

29. V.V. Souchkov & L.S. Bachilo. "Invention Machine Standards Expert System for Solving Inventive Problems", in: *Proceedings of International Conference INFO-89*, Minsk, USSR, 1989, 289-296 (In Russian).
30. V.V. Souchkov. "TRIZ: Support for Solving Manufacturing Problems", in: *Proceedings of 1st International Conference on Intelligent CAD For Manufacturing*, Minsk, Belarus, 1993. (In Russian).
31. N. Mars, P. M. Wognum & V.V. Sushkov, "AI and Creative Design", in *Proceedings of American Association of Artificial Intelligence Spring Symposium 93*, Stanford University, USA, 1993.
32. V.V. Sushkov. "Reuse of physical knowledge in creative engineering design". In *Proceedings of the European Conference on Artificial Intelligence Workshop Notes 'Models and techniques for reuse of designs'*, Amsterdam, 1994.
33. Killander & V. Sushkov, "Conflict-Oriented Model of Creative Design", in *Proceedings of the 3rd Int. Roundtable Conference on Computational Models of Creative Design*, J.S. Gero, M.L. Maher & F. Sudweeks, 3-7 December 1995, Heron Island, Queensland, Australia, 1995, 369-397.
34. V. V. Sushkov, L.K. Alberts & N. Mars, "Innovative Engineering Design Based on Sharable Physical Knowledge", in *Proceedings of the International Conference Artificial Intelligence in Design 96*, Stanford University, USA, (J.S. Gero and F. Sudweeks, eds.), Kluwer Academic Publishers, 1996, 723-742.
35. V.V. Sushkov & N.J.I. Mars. "INDES: An Ontology For Innovative Engineering Design", In *Proceedings of International Conference on Engineering Design ICED-97*, Tampere, Finland, August 19-21, 1997, 215-218.
36. V.V. Souchkov, S.N. Sviridov & A.G. Kuryan "Innovation Asset Management: A New Corporate Strategy", In *Proceedings of the conference "Management 2001"*, October 16-19, Moscow, 2001. (in Russian).

37. S.N. Sviridov, V.V. Souchkov & A.G. Kuryan. "TRIZ and Innovation Asset Management: A New Dimension For Enterprise Strategy", *In Proceedings of the 1st International Conference TRIZ Future 2001*, University of Bath, Bath, UK, November 7-9, 2001, 209-220.
38. V. Souchkov. "Rapid Innovation Model", *International roundtable Conference Innovation 2003*, Paris, France, January 17, 2003.
39. M. Ivashkov & V. Souchkov, "Establishing Priority of TRIZ Inventive Principles in the Early Design Phase", in *Proceedings of Intl. Conference DESIGN 2004*, Dubrovnik, May 13-18, 2004.
40. V. Souchkov. "Innovative Enterprise Infrastructure", In *Proceedings of ETRIA Conference TRIZ Future 2004*, Florence, Italy, Nov. 5-8, 2004.
41. Souchkov V., "Skills and Tools to Support Productivity in Creative Work", in *Proceedings of the European Summit for the Future 2005*, January 27, 2005, Amsterdam.
<http://www.xtriz.com/publications/SummitForFuture2005Souchkov.pdf>
42. Souchkov V., "Root Conflict Analysis (RCA+): Structuring and Visualization of Contradictions", in *Proceedings of ETRIA TRIZ Future 2005 Conference*, Graz, November 16-18, 2005, Leykam Buchverlag, 2005.
<http://www.xtriz.com/RootConflictAnalysisIntroduction.pdf>
43. Ivashkov M., Souchkov V. & Dzenisenka S., "TRIZ Based Method for Intelligent Design Decisions" in *Proceedings of the 6th Int. Conference on Computer Aided Industrial Design and Conceptual Design*, May 29-31, 2005, Delft, International Academic Publishers.
44. Souchkov V., Hoeboer R & van Zutphen M. "TRIZ in Business: Application of RCA+ to Identify and Solve Conflicts Related to Business Problems", in *Proceedings of ETRIA TRIZ Future 2006 Conference*, Vol. 2, Kortrijk, Oct. 9-11, pp. 1-8.
45. Souchkov V. & Bolckmans K., "Selecting Contradictions through Managing Problem Complexity", in *Proceedings Int. Conference TRIZ Future 2007*, November 6-8, 2007, Frankfurt, Kassel University Press, p. 269-276.
46. Souchkov V., "Value-Conflict Mapping to Structure Innovation Strategy", in *Proceedings of Int. Conference TRIZ Future 2008*, University of Twente, Enschede, The Netherlands, 2008, p. 235-242.
47. Vaneker T., de Vries R., Souchkov V. & Mannak J, "Development of a framework for using TRIZ in a co-disciplinary design environment", in *Proceedings of Intl. Conference TRIZ Future 2008*, University of Twente, Enschede, The Netherlands, p. 49-56.
48. Souchkov V., "TRIZ and Systematic Business Model Innovation", in *Proceedings of Int. Conference TRIZ Future 2010*, Bergamo, Italy, p. 189-198.
49. Wits W.W, Vaneker T. & Souchkov V., "Full Immersion TRIZ in Education", in *Proceedings of Int. Conference TRIZ Future 2010*, Bergamo, Italy, p. 269-276.
50. Ives De Saeger, Kim Rutten, & Valeri Souchkov, "Function Value Map", in *Proceedings of the 12th Int. Conference TRIZ Future 2012*, Uiversidade Nove da Lisboa, Portugal, 567-576.
51. Souchkov V. "Systematic Innovative Problem Solving in Social Media", keynote talk, submitted to *IADIS International Conference on ICT, Society and Human Beings*, Prague, Czech Republic, July 24-26, 2013.
52. Souchkov V., "The Trend of Functionality Evolution", submitted to the *ETRIA TRIZ Future 2013 Conference*, Paris, France, October 29-31, 2013.

White papers:

53. V. Souchkov. *Accelerate Innovation with TRIZ*, Insytec, 1999, (second edition 2010). <http://www.xtriz.com/publications/AccelerateInnovationWithTRIZ.pdf>
54. Souchkov V., *M-TRIZ: "Application of TRIZ to Solve Business Problem*, Insytec, 1999.
55. V.V. Souchkov, *Concept Composer: Managing Innovative Knowledge*, InBITween BV, 2002.

56. V.V. Souchkov, *TRIZ and Systematic Innovation: New Tools for Business Creativity*, InBITween BV, 2002.
57. V. Souchkov, *Contradictions and System Thinking*, ICG T&C, 2004.
<http://www.xtriz.com/publications/ContradictionsAndSystemThinking.pdf>
58. Souchkov V., *Made with TRIZ*, ICG T&C, 2006.
59. Souchkov V., *Breakthrough Thinking with TRIZ for Business and Management*, ICG T&C, March 2007, <http://www.xtriz.com/TRIZforBusinessAndManagement.pdf>
60. Souchkov V., *Dimensions of Creative Thinking*, ICG T&C, 2006,
http://www.xtriz.com/Souchkov_DimensionsOfCreativeThinking.pdf
61. Souchkov V., *Demand-Trend Matrix*, ICG T&C, April 2007.
62. Souchkov V. *A Brief History of TRIZ*, ICG T&C, May 2008,
<http://www.xtriz.com/BriefHistoryOfTRIZ.pdf>
63. Souchkov V. *Power Thinking Skills for Innovative Leadership*, ICG T&C, 2009.
<http://www.xtriz.com/ThinkigSkillsForInnovation.pdf>
64. Souchkov V. *Psychological Barriers to Creativity*, ICG T&C, 2009.
http://www.xtriz.com/Souchkov_PsychologicalBarriersAndCreativity.pdf
65. Souchkov V. *Innovation Triggers and Sources*, ICG T&C, 2009,
http://www.xtriz.com/Souchkov_InnovationTriggersAndSources.pdf
66. Souchkov V. *Value-Conflict Mapping*, ICG T&C, January 2010.
67. Souchkov V. *Ten Types of Innovative Tasks*, ICG T&C, July 2012.