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# STANDARDIZATION EVOLUTION AND FUTUR LINES OF ITS DEVELOPMENT

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## Abstract

*The paper gives a detailed account of the concepts "standard" and "standardization". We studied the standardization development from the ancient times to the present day. This work describes the role of standardization as a tool for competitiveness and efficiency of the partnership between the designer, manufacturer, supervisor, customer, and supplier. Moreover, we examined the interrelation between standards and innovation and identified the promising directions in standardization development*

## Keywords

*Standard, standardization, standardization of methods, innovations*

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## References

- [1] Osnovy standartizatsii [Standardization fundamentals]. URL: <http://bourabai.ru/metrology/standard.htm> (accessed 01.05.2016)
  - [2] Nefedov V.A., Fayustov A.A. Metrologiya, standartizatsiya i sertifikatsiya [Metrology, standardization and certification]. Moscow, GUU Publ., 2014. 90 p. (in Russ.).
  - [3] Nikolaeva M.A., Lebedeva T.P. Initiation and progression history of standardization in Russia and abroad. *Sibirskiy torgovo-ekonomicheskiy zhurnal*, 2015, no. 2 (20), pp. 86–89 (in Russ.).
  - [4] D'yakonova L.M., Ivanov M.A. Iстория развития стандартизаций, metrologii i podtverzhdeniya sootvetstviya [Initiation history of standardization, metrology and conformity assessment]. Sankt-Petersburg, SPbGASU Publ., 2012. 103 p. (in Russ.).
  - [5] Petrushevskiy F.F., Prozorovskiy D.I. Lokot', lineynaya mera. Entsiklopedicheskiy slovar' Brokgauza i Efrona. T. XVIIA (34) [Lokot', linear measure. Brokgauz and Efron encyclopedic dictionary. Vol. XVIIA (34)]. Sankt-Petersburg, Izdatel'skoe delo Publ., 1896 (in Russ.).
  - [6] Kratkie svedeniya iz istorii metrologii, standartizatsii, sertifikatsii i ikh osnovnye ponyatiya [Summary on history of metrology, standardization and certification and their basic terms]. URL: [http://edulib.pgtu.ru/els/\\_2012/100\\_12/Metrologiia1/1/html/g01\\_01.htm](http://edulib.pgtu.ru/els/_2012/100_12/Metrologiia1/1/html/g01_01.htm) (accessed 15.05.2016) (in Russ.).
  - [7] Chto takoe brakerazh i kak organizovat' brakerazhnyy kontrol' na predpriyati? [What is quality inspection and the way to organize quality inspection control at the factory]. URL: [http://www.pitportal.ru/ru/samples\\_docs/6715.html](http://www.pitportal.ru/ru/samples_docs/6715.html) (accessed 18.05.2016) (in Russ.).
  - [8] Levitskiy V.S. Mashinostroitel'noe cherchenie i avtomatizatsiya vypolneniya chertezhey [Mechanical drawing and automation of drawing works]. Moscow, Vysshaya shkola Publ., 2009. 435 p. (in Russ.).
  - [9] Iстория standartizatsii i metrologii [Standardization and metrology history]. URL: [http://www.pompred.ru/ist\\_stand.php](http://www.pompred.ru/ist_stand.php) (accessed 14.05.2016) (in Russ.).
  - [10] Nikolaeva M.A. Kontrol' kachestva plodov i ovoshchey v torgovle [Quality control of fruits and vegetables in trading]. Moscow, Ekonomika Publ., 1978. pp. 4–8 (in Russ.).
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- [11] Kulikov V.P. Standarty inzhenernoy grafiki [Engineering graphics standards]. Moscow, FORUM Publ., 2011. 240 p. (in Russ.).
  - [12] GOST 2.051-2013. Edinaya sistema konstruktorskoy dokumentatsii. Elektronnye dokumenty. Obshchie polozheniya [State standard 2.051-2013. Unified system for design documentation. General provisions]. URL: <http://www.internet-law.ru/gosts/gost/55715/> (accessed 24.05.2016) (in Russ.).
  - [13] Devina L.A. Standartizatsiya kak zalog formirovaniya blagopriyatnoy sredy dlya vnedreniya innovatsii [Standardization as a way to form friendly environment for innovation]. URL: <http://pef.e-m.ru/12/prezentation/levina.pdf> (accessed 14.05.2016) (in Russ.).
  - [14] Emel'yanov S.G., Kabanov V.A., Kuzhel' S.S., Korol'kov I.A. Teoreticheskie osnovy i instrumenty upravleniya innovatsiyami [Theoretical foundations and management tools for innovations]. Staryy Oskol, TNT Publ., 2015. 184 p. (in Russ.).
  - [15] Sholkin V.G. "Standardization-engineering": innovative development path. Standarty i kachestvo, 2014, no. 1, pp. 28–31 (in Russ.).

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