








## ShanghaiRanking's Global Ranking of Academic Subjects 2018 - Mathematics

Field: Natural Sciences			Subject: Mathematics			
World Rank	Institution*	Country/Region	Score on			
			PUB	CNCI	IC	TOP
51-75	University of Warsaw		63,2	51,7	69,9	31,6
151-200	Jagiellonian University		55,4	52,0	67,3	15,8
201-300	Nicollaus University		35,7	63,2	55,4	15,8
301-400	<b>Warsaw University of Technology</b>		36,6	52,5	57,4	15,8
301-400	AGH-University of Science		40,6	57,2	67,4	0,0
401-500	Wroclaw University of Technology		35,1	59,0	59,8	0,0
401-500	Adam Mickiewicz University		40,6	52,5	74,5	0,0

### ■ Definition of Indicators

Indicators	Definition
PUB	PUB is the number of papers authored by an institution in an Academic Subject during the period of 2012-2016. Only papers of 'Article' type are considered. Data are collected from Web of Science and InCites. Papers in different Web of Science categories are grouped into relevant Academic Subjects ( <b>Classification of Web of Science Categories into Academic Subjects</b> ).
CNCI	Category Normalized Citation Impact (CNCI) is the ratio of citation of papers published by an institution in an Academic Subject during the period of 2012-2016 to the average citations of papers in the same category, of the same year and same type. A CNCI value of 1 represents world-average performance while a value above 1 represents performance above the world average. Only papers of 'Article' type are considered. Data are collected from InCites database.
IC	International collaboration (IC) is the number of publications that have been found with at least two different countries in addresses of the authors divided by the total number of publications in an Academic Subject for an institution during the period of 2012-2016. Only papers of 'Article' type are considered. Data are collected from InCites database.
TOP	TOP is the number of papers published in Top Journals in an Academic Subject for an institution during the period of 2012-2016. Top Journals are identified through ShanghaiRanking's Academic Excellence Survey or by Journal Impact Factor. In 2018, 123 top journals selected by the Survey are used in rankings of 41 Academic Subjects. In Computer Science & Engineering, 14 selected top conferences are also taken into account this year. The list of the top journals and conferences can be found <a href="#">here</a> . For Academic Subjects that do not have journals identified by the Survey, the JCR top 20% journals are used. Top 20% journals are defined as their Journal Impact Factors in the top 20% of each Web of Science category according to Journal Citation Report (JCR) 2016, and then aggregated into different Academic Subjects. Only papers of 'Article' type are considered.