OPEN CASCADE TECHNOLOGY

IN RESEARCH & SCIENCE PUBLICATIONS





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OCCT-BASED ARTICLES EXECUTIVE SUMMARY

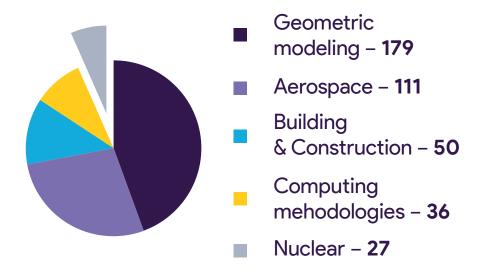


48 countries

639 articles for 2015-2020

424 organizations

TOP 5 APPLICATION AREAS



342 universities

44 other research organizations

38 commercial organizations

SUMMARY

We at Open Cascade would like to express gratitude to the scientists all over the world who address Open CASCADE Technology (OCCT) in their research projects!

Forecited data is based on the results of research articles analysis from scientific databases (Web of Science, ScienceDirect, Scopus, GoogleScholar).

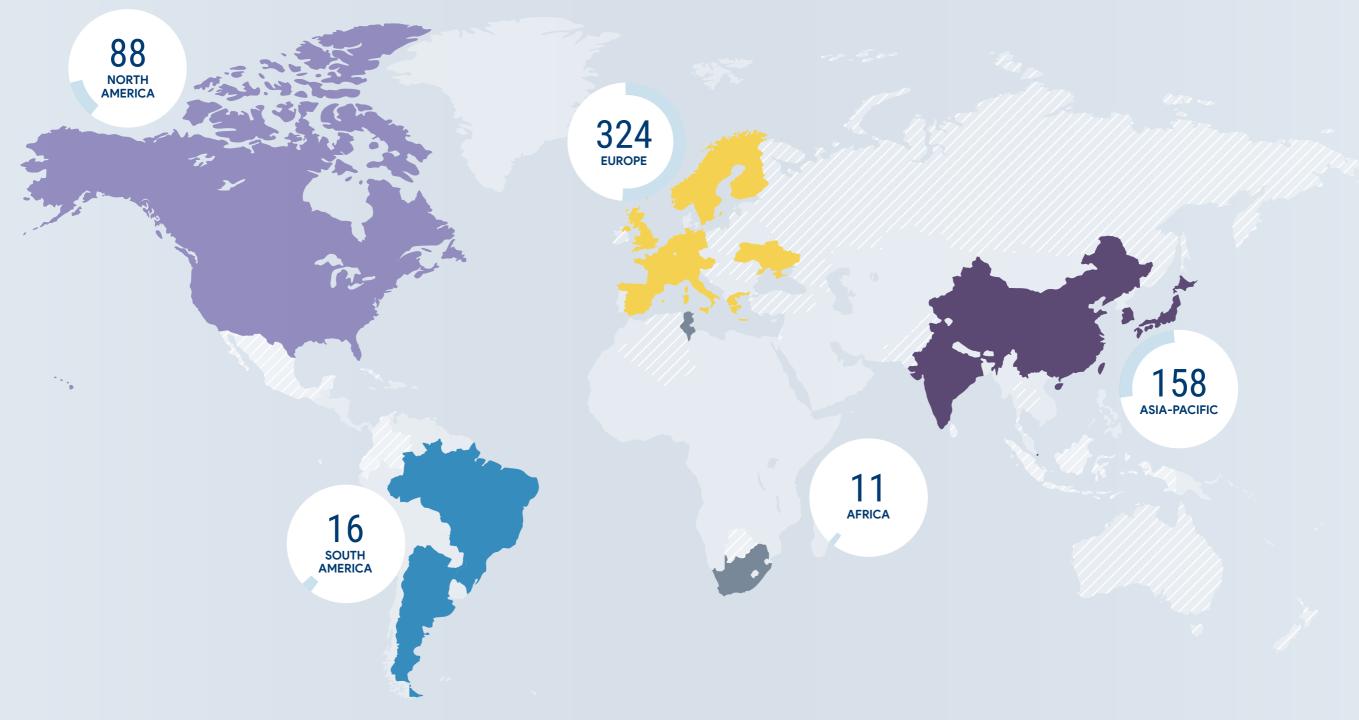


100	2015
98	2016
109	2017
123	2018
1.7	2019
91	2020

NUMBER OF ARTICLES BY YEAR

RESEARCH ARTICLES BY COUNTRY





NUMBER OF ARTICLES BY COUNTRY

- Germany **101**
- United Kindom 53
- France **44**
- Italy **39**
- 9 Spain **27**
- the Netherlands 10
- Pelgium 11
- Finland 8
- Sweden 6
- Greece 5
- O Austria 5
- Switzerland 5
- Norway 5 • Ukraine – 5
- **♀** China **87**
- South Korea 40
- **♀** India 10
- **9** Japan **10**
- ▼ Taiwan 6
- Singapore 5
- United States of America - 67
- Canada **21**
- Argentina 10
- Prazil 6

▼ Tunisia – 6

♀ South Africa – **5**

Mexico, Indonesia, Poland, Romania, Russia, Slovenia, Australia, Turkey, Cuba, Pakistan, Colombia, Ecuador, Thailand, Croatia, Hungary, Botswana, Algeria, Ireland, Israel, Lithuania, Malaysia, Sri Lanka, New Zealand, Latvia

OTHERS - 42

RESEARCH ORGANIZATIONS BY COUNTRY. PART 1



















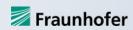












































































RESEARCH ORGANIZATIONS BY COUNTRY. PART 2



































































































9

ARTICLES BY APPLICATION AREA. PART 1





AEROSPACE - 111



GEOMETRIC MODELING - 179

BUILDING & CONSTRUCTION - 50



COMPUTING METHODOLOGIES - 36



NUCLEAR - 27



MEDICINE - 28

ARTICLES BY APPLICATION AREA. PART 2

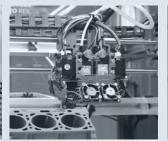




CAM - 26



MECHANICS - 16



ADDITIVE MANUFACTURING - 15



ELECTRICAL ENGINEERING - 13



ROBOTICS - 23



SHIPBUILDING - 13



OTHERS - 13



ENGINEERING - 11



PHYSICS - 20



HYDROINFORMATICS - 10



ENERGY - 8



IT - 6



MILITARY - 6



AUTOMOTIVE - 8



AR & VR - 8



STEEL CASTING - 5



GEOLOGY - 4

OTHERS INCLUDE



WELDING LASER



ARTIFICIAL INTELLIGENCE



ZOOLOGY



IOT



E-COMMERCE



DESIGN LANGUAGES



ASTRONOMY

MOST ACTIVE ORGANIZATIONS BY APPLICATION AREA





GEOMETRIC MODELING







































































AEROSPACE































BUILDING & CONSTRUCTION

















ROBOTICS

















COMPUTING METHODOLOGIES





NUCLEAR











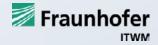




MEDICINE















APPLICATION AREAS BY COUNTRY

APPLICATION AREAS BY COUNTRY



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GEOMETRIC MODELING	22	25	17	23	110	18	7	6	6
AEROSPACE	31	12	20	15		6	8		3
BUILDING & CONSTRUCTION				5					
COMPUTING METHODOLOGIES			9		3				
CAM		1						3	
NUCLEAR	8								
ROBOTICS		8							
SHIPBUILDING							4		
PHYSICS									
OTHERS	40	41	21	10	23	10	20	15	9

OCCT-BASED RESEARCH: TOP-15 ORGANIZATIONS





OCCT-BASED RESEARCH: COMMERCIAL COMPANIES



ABOUT US

Open CASCADE Technology (OCCT) is the only open-source full-scale 3D geometry library. Originally developed as an industrial CAD kernel, OCCT is widely used for the development of specialized programs dealing with the following engineering and mechanical domains: 3D modeling (CAD), manufacturing (CAM), numerical simulation (CAE), measurement equipment (CMM), and quality control (CAQ). Since its publication in 1999, OCCT has been successfully used in numerous projects from all industrial fields. It includes a set of C++ class libraries providing services for 3D surface and solid modeling, visualization, data exchange, and rapid application development. This report represents wider OCCT usage not only in commercial projects but also in academic domain.

Learn more about Open CASCADE Technology at dev.opencascade.org



Over the course of 20 years, Open Cascade company supports OCCT providing community with the opportunity to develop 3D CAD projects. Open Cascade is a software development company which is focused on digital transformation of industries through the use of 3D technologies. The company is a part of the Capgemini Engineering. Open Cascade offers a wide range of high-performance proprietary 3D software tools both open-source and commercial.

Learn more about Open Cascade at www.opencascade.com



