OPEN CASCADE TECHNOLOGY

IN RESEARCH & SCIENCE PUBLICATIONS





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OCCT-BASED ARTICLES EXECUTIVE SUMMARY



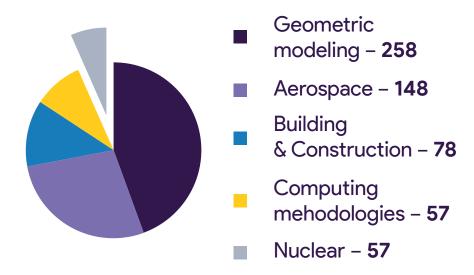
55 countries

937 articles for

2015-Aug. 2022

614 organizations

TOP 5 APPLICATION AREAS



475 universities

60 other research organizations

79 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).

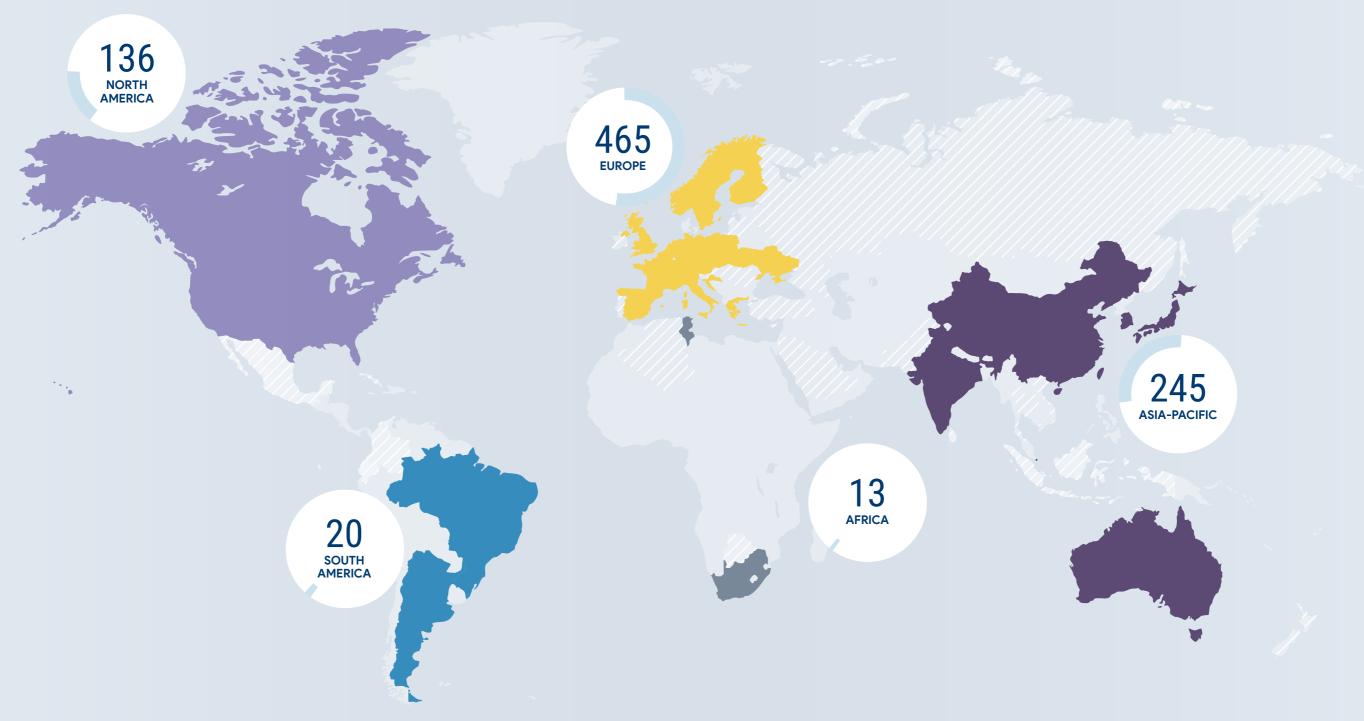


100	2015
98	2016
109	2017
123	2018
119	2019
98	2020
181	2021
108	

NUMBER OF ARTICLES BY YEAR

RESEARCH ARTICLES BY COUNTRY





NUMBER OF ARTICLES BY COUNTRY

- Germany **142**
- United Kindom 70
- France **64**
- 9 Italy **47**
- 9 Spain **38**
- the Netherlands 18
- Pelgium 17

- Finland **11**
- Switzerland 11
- Sweden 9
- Greece 8
- Austria 12
- Norway **7**
- Ukraine 5
- Poland **5**

Oroatia - 5

- United States of America - 108
- Q Canada 28
- China 143
- South Korea 51
- **♀** India 18
- **♀** Japan **13**
- Australia 8
- **♀** Taiwan **7**
- **♀** Singapore **5**

- ♥ Tunisia 6
- South Africa 7
- Argentina 12
- Prazil 8

OTHERS - 54

Mexico, Indonesia, Romania, Slovenia, Cyprus, Saudi Arabia, Turkey, Pakistan, Colombia, Ecuador, Jordan, Thailand, Hungary, Botswana, Algeria, Ireland, Vietnam, Russia, Malaysia, Israel, Lithuania, Cuba, Sri Lanka, New Zealand, Latvia, Portugal

RESEARCH ORGANIZATIONS BY COUNTRY. PART 1































































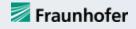






























































RESEARCH ORGANIZATIONS BY COUNTRY. PART 2

































































































Universidad























ARTICLES BY APPLICATION AREA. PART 1





AEROSPACE - 148



GEOMETRIC MODELING - 258

BUILDING & CONSTRUCTION - 78



COMPUTING METHODOLOGIES - 57



CAM - 57

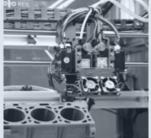


MEDICINE - 46

ARTICLES BY APPLICATION AREA. PART 2









PHYSICS - 32

ADDITIVE MANUFACTURING – 22

OTHERS - 20

NUCLEAR - 39





MECHANICS - 16





ENERGY - 11

SHIPBUILDING – 18







MILITARY - 6











ROBOTICS - 39

IT - 18

ELECTRICAL ENGINEERING – 13

AUTOMOTIVE - 11

STEEL CASTING - 5

GEOLOGY - 4

OTHERS INCLUDE

















WEI DING

LASER

ARTIFICIAL INTELLIGENCE

ZOOLOG

ı

E-COMMERC

DESIGN LANGUAGES

ASTRONOMY

MOST ACTIVE ORGANIZATIONS BY **APPLICATION AREA**





GEOMETRIC MODELING





















Massachus Institute of Technology





de MAR DEL PLATA

























































AEROSPACE





ONERA























BUILDING & CONSTRUCTION



















Southampton



TORONTO





ROBOTICS

























COMPUTING METHODOLOGIES





NUCLEAR















universite

PHYSICS





MEDICINE























APPLICATION AREAS BY COUNTRY



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GEOMETRIC MODELING	39	31	31	31	17	20	8	9	7
AEROSPACE	18	40	27	16	7	8	9	2	4
BUILDING & CONSTRUCTION	10	11		5					
COMPUTING METHODOLOGIES	8	3	15	2	5	2	1	1	1
CAM	15	3	3	3	5	2	3	5	3
NUCLEAR	6	12	3						
MEDICINE	2	7	7	3	2		5	2	1
ROBOTICS	13	5				1	3	1	
PHYSICS	4	5							
OTHERS	28	25	17	6	17	9	15	11	6

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



