



CALL FOR PAPERS

ICHP 2022
Sep 06-07, 2022
Prague, Czechia

The International Research Conference is a federated organization dedicated to bringing together a significant number of diverse scholarly events for presentation within the conference program. Events will run over a span of time during the conference depending on the number and length of the presentations.

ICHP 2022 : International Conference on Hilbert Problems is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Hilbert Problems. The conference will bring together leading academic scientists, researchers and scholars in the domain of interest from around the world. Topics of interest for submission include, but are not limited to:

Hilbert problems:

1st problem: Cantor's problem on the cardinal number of the continuum
2nd problem: The compatibility of the arithmetical axioms
3rd problem: The equality of the volumes of two tetrahedra of equal bases and equal altitudes
4th problem: The problem of the straight line as the shortest distance between two points
5th problem: Continuous group of transformations without the assumption of the differentiability of the functions defining the group
6th problem: Mathematical treatment of the axioms of physics
7th problem: Irrationality and transcendence of certain numbers
8th problem: Problems of prime numbers
9th problem: Proof of the most general law of reciprocity in any number field
10th problem: Determination of the solvability of a diophantine equation
11th problem: Quadratic forms with any algebraic numerical coefficients

12th problem: Extension of the kronecker theorem on abelian fields to any algebraic realm of rationality
13th problem: Impossibility of the solution of the general equation of the 7th degree by means of functions of only two variables
14th problem: Proof of the finiteness of certain complete systems of functions
15th problem: Rigorous foundation of schubert's enumerative calculus
16th problem: Problem of the topology of algebraic curves and surfaces
17th problem: Expression of definite forms by squares
18th problem: Building up of space from congruent polyhedral
19th problem: Analyticity of solutions of the regular problems in the calculus of variations
20th problem: The general problem of boundary values
21st problem: Proof of the existence of linear differential equations having a prescribed monodromy group
22nd problem: Uniformization of analytic relations by means of automorphic functions
23rd problem: Further development of the methods of the calculus of variations

