# Gödel Prize 2014

## Call for Nominations

**Deadline: January 17, 2014.**

The Gödel Prize for outstanding papers in the area of theoretical computer science is sponsored jointly by the European Association for Theoretical Computer Science (EATCS) and the Association for Computing Machinery, Special Interest Group on Algorithms and Computation Theory (ACM-SIGACT). The award is presented annually, with the presentation taking place alternately at the International Colloquium on Automata, Languages, and Programming (ICALP) and the ACM Symposium on Theory of Computing (STOC). The 22nd GÃűdel Prize will be awarded at the 41st ICALP in Copenhagen in July 2014.

The Prize is named in honor of Kurt GÃűdel in recognition of his major contributions to mathematical logic and of his interest, discovered in a letter he wrote to John von Neumann shortly before NeumannâĂŹs death, in what has become the famous âĂIJP versus NPâĂİ question. The Prize includes an award of USD 5000. Award Committee: The winner of the Prize is selected by a committee of six members. The EATCS President and the SIGACT Chair each appoint three members to the committee, to serve staggered three-year terms. The committee is chaired alternately by representatives of EATCS and SIGACT. The 2014 Award Committee consists of Krzysztof Apt (CWI Amsterdam), Giuseppe F. Italiano (UniversitÃă di Roma Tor Vergata), Joseph Mitchell (State University of New York at Stony Brook), Andrew Pitts (University of Cambridge), Daniel Spielman (Yale University), and ÃĹva Tardos (Cornell University).

**Eligibility:**  The rules for the 2014 Prize are given below and they supersede any different interpretation of the generic rule to be found on websites of both SIGACT and EATCS. Any research paper or series of papers by a single author or by a team of authors is deemed eligible if

(i) the paper was published in a recognized refereed journal no later than December 31, 2013;

(ii) the main results were not published (in either preliminary or final form) in a journal or conference proceedings before January 1st, 2001.

The research work nominated for the award should be in the area of theoretical computer science. The term âĂIJtheoretical computer scienceâĂİ is meant to encompass, but is not restricted to, research areas covered by ICALP and STOC. Nominations are encouraged from the broadest spectrum of the theoretical computer science community so as to ensure that potential award winning papers are not overlooked. The Award Committee shall have the ultimate authority to decide whether a particular paper is eligible for the Prize.

**Nominations:**   Nominations for the award should be submitted by email to the Award Committee Chair

**Giuseppe F. Italiano: goedelprize at gmail dot com**

Please make sure that the Subject line of all nominations and related messages begin with Goedel Prize 2014. To be considered, nominations for the 2014 Prize must be received by **January 17, 2014.**

Any member of the scientific community can make nominations. The Award Committee may actively solicit nominations. A nomination should contain a brief summary of the technical content of the paper(s) and a brief explanation of its significance. A printable copy of the research paper or papers should accompany the nomination. The nomination must state the date and venue of the first conference or workshop publication or state that no such publication has occurred. The work may be in any language. However, if it is not in English, a more extended summary written in English should be enclosed. To be considered for the award, the paper or series of papers must be recommended by at least two individuals, either in the form of two distinct nominations or one nomination including recommendations from two different people. Additional recommendations may also be enclosed and are generally useful. The Award Committee encourages recommendation and support letters to be mailed separately, without being necessarily shared with the nominator(s). The rest of the nomination package should be sent in a single email whenever possible. Those intending to submit a nomination should contact the Award Committee Chair by email well in advance. The Chair will answer questions about eligibility, encourage coordination among different nominators for the same paper(s), and also accept informal proposals of potential nominees or tentative offers to prepare formal nominations. The committee maintains a database of past nominations for eligible papers, but fresh nominations for the same papers (especially if they highlight new evidence of impact) are always welcome.

**Selection Process:**   The Award Committee is free to use any other sources of information in addition to the ones mentioned above. It may split the award among multiple papers or declare no winner at all. All matters relating to the selection

process left unspecified in this document are left to the discretion of the Award Committee.

**Recent Winners**
(all winners since 1993 listed at http://www.sigact.org/Prizes/Godel/):

**2013:** ANTOINE JOUX, **"A One Round Protocol for Tripartite Diffie-Hellman,"** *J. Cryptology,* **17 (4) (2003), 263–276.**

DAN BONEH, MATTHEW K. FRANKLIN, **"Identity-Based Encryption from the Weil Pairing,"** *SIAM Journal of Computing,* **32(3) (2003), 586–615.**

**2012:** ELIAS KOUTSOUPIAS, CHRISTOS PAPADIMITRIOU, **"Worst-case equilibria"** *Computer Science Review,* **3 (2) (2009), 65–69.**

TIM ROUGHGARDEN, ÉVA TARDOS, **"How bad is selfish routing?"** *Journal of the ACM,* **49 (2) (2002), 236–259.**

NOAM NISAN AND AMIR RONEN, **"Algorithmic Mechanism Design,"** *Games and Economic Behavior,* **35(1-2) (2001), 166–196.**

**2011:** JOHAN HÅSTAD, **"Some optimal inapproximability results,"** *Journal of the ACM,* **48 (2001), 798–859.**

**2010:** S. ARORA, **"Polynomial-time approximation schemes for Euclidean TSP and other geometric problems,"** *Journal of the ACM,* **45(5) (1998), 753–782.**

J.S.B. MITCHELL, **"Guillotine subdivisions approximate polygonal subdivisions: A simple polynomial-time approximation scheme for geometric TSP, k-MST, and related problems,"** *SIAM J. Computing,* **28(4) (1999), 1298–1309.**