

SILFS LOGIC PRIZE 2018 – SUMMARY REPORT

The examining board for the SILFS LOGIC PRIZE 2018 (Giovanna CORSI, Università di Bologna; Silvio GHILARDI, Università di Milano; Roberto GIUNTINI, Università di Cagliari; Hykel HOSNI, Università di Milano; Pierluigi MINARI, Università di Firenze) has taken office on February 15, 2018. The final online meeting was held on March 29, 2018.

The examining board received 5 papers, whose authors are listed below:

- Stefano BONZIO
- Antonino DRAGO
- Rosanna FESTA
- Andrea IACONA
- Claudia MUREŞAN

After careful evaluation, the SILFS LOGIC PRIZE 2018 was awarded to **Dr. STEFANIO BONZIO** for his paper *Duality for Plonka sums*.

This paper presents a general topological duality for varieties of algebras that are representable as Plonka sums over direct systems of families of dualisable algebras. Given a regular variety $R(V)$, where V is strongly irregular and made of dualisable motivated both as a logic of computer programming errors and as a logic of reverse variable inclusion (i.e. as a logic of "linguistically ampliative", or dually analytic, inferences). The paper is correct and contains very interesting results; it lays the foundations of a sound theory. Although it is mainly of an algebraic character, it is related to logic as shown by the above remarks. The paper is thereby assessed as **VERY GOOD**.

March 28, 2018

The examining board

Giovanna Corsi
Silvio Ghilardi
Roberto Giuntini
Hykel Hosni
Pierluigi Minari