Attachment 'B'

Attention: In case of employment non-EU citizens have to submit certificates as per art. 4 point 7 of the call for qualifications not obtained in Italy or another EU member state

SUBSTITUTE DECLARATION OF CERTIFICATION
Art. 46 D.P.R. 28th December 2000, n. 445)

SUBSTITUTE DECLARATION OF ATTESTED AFFIDAVIT REGARDING FACTS, STATUSES,
AND PERSONAL QUALITIES DIRECTLY KNOWN TO THE DECLARANT
(Art. 47 D.P.R. 28th December 2000, n. 445)

The undersigned name **Sasha Rubin**, born **16/02/76** in **Johannesburg, South Africa**, resident in **Naples, Italy**, in street **Via Aniello Falcone, 428**, aware that, in accordance with the artt. 46 e 47 del D.P.R. of 28th December 2000, n. 445, falsification of documents and untrue declarations are punished by the penal code and by the special laws regarding the matter, according to the provisions referred to in the art. 76 del D.P.R. of 28th December 2000, n. 445,

DECLARES

under his own responsibility,

that he holds the following degrees:
- PhD in Mathematics from the University of Auckland, attained on 06/09/2004
- MsC in Mathematics from the University of Auckland, attained on 23/04/1999
- BsC in Mathematics from the University of Cape Town, attained in 1996.

Town and date **13 April 2017, Naples**
Signature [1]

(1), The present declaration needs no authentication of the signature if, in accordance with the art. 38 del D.P.R.of 28° December 2000, n. 445, the declaration is signed by the person concerned in the presence of the person appointed by the University/Faculty or else is signed and sent, together with an unauthenticated photocopy of a document of identity of the declarant, to the appropriate office..
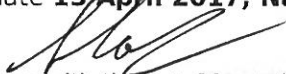
discussion, he/she requires the following assistance ...., as well as the following extra time ....

The undersigned enclose at the application for participation in the selection procedure:

1) 1 photocopy of a valid identity document and the fiscal code;
2) 1 photocopy of the curriculum vitae regarding the didactic and scientific activity and drawn up according to the model of attachment 'C';
3) didactic and scientific qualifications believed useful for the comparative assessment and the corresponding list, if necessary;
4) 1 photocopy of the list of the publications believed useful for the comparative assessment and drawn up in accordance with article 5 paragraph 3 of the call;
5) 1 photocopy of the list of all documents enclosed at the application, signed and dated at the last page;

Place and date **13 April 2017, Naples**
Signature

* In accordance with the art. 39, pa 1 of the D.P.R. 445/2000 the present declaration requires no authentication of the signature.

making foundational contributions to this area for four reasons.

First: I have deep and extensive knowledge in automata theory which I can draw upon to formalise and study appropriate **languages** for process management (see, my work on automatic structures between 2002 and 2007).

Second: I have worked in verification of infinite state systems (BPM systems are typically infinite-state because there is no a-priori bound on the variable domains); see my work since 2014 on parameterised model-checking ([4,6,7,11,12, 17,20,21] above).

Third: I have recently worked on strategic reasoning in artificial intelligence [1,2,3,5,8,9,10]; this will allow me to contribute to a deep study of the **interaction** of processes. Concretely, processes may be the result of multiple "players" that may have conflicting goals (e.g., multiple companies want the dominant share of a market); to make sense of such processes one would need to use strategic notions from game-theory (such as equilibria), which, in turn, need to be formalised so that they can be automatically reasoned about for verification, monitoring and mining.

Fourth: I have recently acquired expertise in modeling and reasoning about imperfect and incomplete information [1,2,3,5]. This will allow me to contribute to processes with **limited visibility**.

Language competence

English: C2
Italian: A2-B1
German: A1
Portuguese: A1

(these are approximate grades; no certificates were obtained)

Date 13 April 2017   Signature

[Pubb. 4.33]   Roderick Bloem, Swen Jacobs, Ayrat Khalimov, Igor Konnov, Sasha Rubin, Helmut Veith, and Josef Widder. "Decidability in Parameterized Verification". In: *SIGACT News* 47.2 (2016), pp. 53–64.

[Pubb. 4.34]   Giuseppe De Giacomo, Antonio Di Stasio, Aniello Murano, and Sasha Rubin. "Imperfect information games and generalized planning". In: *International Joint Conference on Artificial Intelligence (IJCAI 2016)*. 2016.

[Pubb. 4.35]   Francesco Belardinelli, Alessio Lomuscio, Aniello Murano, and Sasha Rubin. "Verification of Multi-agent Systems with Imperfect Information and Public Actions". In: *Proceedings of the 2017 International Conference on Autonomous Agents & Multiagent Systems, São Paulo, May 8-12, 2017*. 2017.

[Pubb. 4.36]   Raphael Berthon, Bastien Maubert, Aniello Murano, Sasha Rubin, and Moshe Vardi. "Hierarchical Strategic Reasoning". In: *LICS 2017*. 2017.

13 aprile 2017