



Nombolo Mdluli Conference Centre, Skukuza 16 – 18 September 2019

Call for Papers

The Department of Informatics at the University of Pretoria is the host for SAICSIT 2019 (<https://saicsit2019.org.za/>) and we are celebrating 40 years since the first SAICSIT conference in 1979.

The theme of the conference is “Digital eco-systems gone wild”. We inhabit a digital ecosystem of connective social media: Facebook, YouTube, Twitter and many other platforms have become deeply embedded into our lives. We inhabit an ecosystem of Cloud Computing, Artificial Intelligence (AI), and the Internet of Things (IoT). An ecosystem of networks, of physical objects embedded with electronics, software, and sensors enabling interconnected linkages of supply chains, markets and businesses. We inhabit an ecosystem of Big Data – from a world of terabytes to a world of exabytes. Our challenge: To make sense of an increasingly ubiquitous technology and data-rich environment, which if left unchecked, can unleash a host of unintended consequences.

The conference programme will include research paper sessions, plenary keynote addresses, panel discussions, industry papers / case studies and workshops - to cater for a broad audience of participants. The first day – Monday 16 September 2019 - is devoted to tutorials, workshops and an all-day Master’s and Doctoral Symposium. The main conference will be held from Tuesday 17th of September to Wednesday 18th of September 2019.

We hereby invite you to submit a research paper, industry paper, panel proposal or workshop proposal for SAICSIT 2019.

1. Important dates

1 February 2019	Call for papers
6 May 2019	Submission of research papers, panels, industry papers, workshops
30 June 2019	Submission of Masters and Doctoral symposium papers
16 September 2019	Masters and Doctoral symposium
17 – 18 September 2019	SAICSIT 2019 conference

2. Submissions

SAICSIT 2019 is the annual research conference of the South African national computing society of the same name (www.saicsit.org.za). It presents researchers with a forum for presenting research in computer science, information systems, information technology, software engineering and computer engineering (as defined in the ACM, AIS and IEEE-CS). SAICSIT 2019 is an international conference and contributions from all parts of the world are warmly welcomed.

Submission deadlines

Full research papers / industry papers / case studies / workshops / panels: **6 May 2019**
(notification by 17 June 2019)

Masters and Doctoral symposium: **30 June 2019** (notification by 31 July 2019)

Submission format

All submissions will be peer-reviewed by an international panel of experts. English is the official conference language - all submissions must therefore be in English.

Submissions in all categories of the SAICSIT 2019 Main Conference and the Postgraduate Symposium must follow the ACM International Conference Proceedings Series prescribed format - MS-Word or LaTeX format (with no additional libraries or special fonts). The template and guidelines for papers are located on the website at <https://www.acm.org/publications/proceedings-template>

Papers that do not follow the template may be excluded from the conference proceedings. The maximum paper length as stipulated in the various submission categories will be strictly enforced.

For all tracks, only anonymised PDF files must be submitted for review. Any questions regarding the formatting and uploading of submissions should be directed to Prof Hanlie Smuts (hanlie.smuts@up.ac.za)

All submissions must be made through the online submission system on the conference web site <https://saicsit2019.org.za>.

Full research papers

We invite the submission of FULL PAPERS (maximum of 10 pages) to report original previously-unpublished work in the topic areas of the conference. Full papers typically report on completed and mature research results.

All full paper submissions will be peer-reviewed by an international panel of experts. The review process will retain the anonymity of authors and reviewers. The program committee will consider the following criteria when evaluating submitted papers: originality of contribution; relevance to the conference; technical/scientific merit; and presentation and clarity.

Accepted full research papers must be presented at the conference by either the main author or one of the co-authors. Authors should guarantee the anonymity of their submissions (by removing names and affiliations from the first page and elsewhere in the paper, as well as in the name that the paper is saved as, that would allow reviewers to easily identify authors).

Industry oriented papers / case studies

In a bid to foster more communication between industry and academia, SAICSIT 2019 solicits INDUSTRY ORIENTED PAPERS and CASE STUDIES from industry members addressing research taking place in industry. Specifically, the industry track seeks to:

- Provide a forum for practitioners to discuss insights, successes and challenges in practical or industry research and development in fields related to the theme of SAICSIT 2019.
- Identify new challenges, lessons, concerns and issues related to computing related research and development in the real world. The goal is to provide researchers with the information required to focus their activities on real-world issues.
- Highlight new, practical research activities; solved or unsolved technical, business or organisational challenges, or issues involved in adopting, maintaining or evolving a computing related product.
- Highlight specific techniques (organisational, architectural, etc.) used to address computing research and development issues in practice.

In order to encourage industry-based authors who cannot afford the commitment of writing a full paper to contribute technically to the proceedings, we invite submissions of extended abstracts of one - two pages in the prescribed format. Extended abstracts should address topics consistent with the overall goals of the industry track. Authors are encouraged to share successes, challenges and unanswered questions — the objective should be to identify important points for further discussion during the conference.

Industry oriented papers or case studies are not treated in the same way as research papers and will be subjected to a separate review process. Only the extended abstract will be reviewed for appropriateness to the themes of the conference and will be published in the conference

proceedings. Please note that this is not a marketing platform and submissions that clearly display a marketing intent will not be considered for presentation.

Industry oriented paper submissions are not anonymous and should contain the names and contact details of the authors. Send your extended abstract (1 – 2 pages) directly to Prof Rennie Naidoo (rennie.naidoo@up.ac.za).

Panels

We invite proposals for PANELS on stimulating or controversial topics of current interest within the general scope of the conference.

Topics and/or themes for a panel session may also be proposed by individuals with an interest in chairing a panel in a topic that intrigues them. Preference will be given to topics that raise forward-looking and/or contentious issues, and that promote debate among panel members and involvement of the audience. All suggestions will be assessed for their topicality and ability to generate stimulating debate.

Send your proposal (including an abstract of up to 500 words) directly to Prof Machdel Matthee (machdel.matthee@up.ac.za). Submissions for panels are NOT anonymous and will be reviewed by leaders in the appropriate area. The proposal should include the proposer's name and affiliation as well as the names and affiliations of possible panel members. The description of accepted panels will be published in the conference proceedings.

Workshops

We invite proposals for WORKSHOPS as satellite events associated with the conference.

Workshop proposals should include the aim of the workshop; tentative programme; possible speakers; and expected outcomes.

Send your proposal (including an abstract of up to 1000 words) directly to Dr Funmi Adebesein (funmi.adebesin@up.ac.za). Submissions for workshops are NOT anonymous and will be assessed for appropriateness and feasibility by the conference committee. The proposal should include the proposer's name and affiliation.

3. South African Computer Journal

The SAICSIT 2019 programme committee will select papers they consider suitable for extending to journal papers, and invite the authors to submit an extended paper for *South African Computer Journal* (accredited for subsidy purposes). The extended paper should:

- include at least 30% new material of substance
- have a new title reflecting the changes
- include a statement of how the extra material changes the paper

Extended papers will be reviewed to *SACJ* standards. *SACJ* levies a publication fee but does not charge for reading papers (open access). Should you not have funding to pay the publication fee, this can be waived at the discretion of the editor-in-chief.

4. Master's and Doctoral Symposium

SAICSIT 2019 offers postgraduate students at master's and doctoral levels the opportunity to actively engage with their peers and established researchers on the first day of the conference. Successful students will be required to present their research during the dedicated sessions, and also will be required to display their work by means of a poster for the duration of the conference.

Participation is free and open to all CS, IS and IT postgraduate research students at any stage of their research. The Postgraduate Symposium provides an excellent opportunity to:

- practise giving conference papers and poster presentations in a friendly environment;
- present your research to peers and experienced supervisors;
- meet other postgraduate researchers working on similar areas of research but based in different Research Centres and universities;
- receive feedback on your research.

Call for Participation

The organizing committee now invites candidate participants to apply for participation in the symposium. The symposium consists of 15 minute presentations, poster sessions and interactions with guest lecturers recognized as experts in their fields. There will be two streams for presentations. These are:

- Computer Science research-in-progress
- Information Systems/Information Technology research-in-progress

Participation procedure

Candidate participants should submit a poster abstract (500 words) **before 30 June 2019 on the submissions portal**. The abstract formatting guidelines are similar to the prescribed format for a full research paper.

1. The number of participants will be limited to 20 per stream and a confirmation of acceptance will be given by **31 July 2019**.
2. Each participant needs to bring to the Symposium a poster that summarizes his research work. Poster dimensions should be maximally 70 x 110 cm.

Financial support

There is no registration fee for the postgraduate symposium for students who present at the symposium. If they attend the main conference, a registration fee will be charged for the main

conference. The postgraduate symposium is open to postgraduate students and invited moderators only.

5. Organising Committee

Steering committee

Organizing chair: Prof Carina de Villiers (carina.devilliers@up.ac.za)

Programme chair: Prof Hanlie Smuts (hanlie.smuts@up.ac.za)

Logistics chair: Dr Marie Hattingh (marie.hattingh@up.ac.za)

M&D Symposium chair: Dr Sunet Eybers (sunet.eybers@up.ac.za)

Workshop chair: Dr Funmi Adebesein (funmi.adebesin@up.ac.za)

Keynote chair: Prof Alta van der Merwe (alta.vdm@up.ac.za)

Finances: Prof Rennie Naidoo (rennie.naidoo@up.ac.za)