



## 16<sup>th</sup> Annual Systems Engineering Conference Call for Submissions

### **“Systems Engineering - ‘New Normal’ ”**

Join us for the 16th Annual INCOSE SA Conference, the premier conference of systems engineering and related disciplines in Africa. The conference allows industry, organizations, educators, researchers, and government to showcase cutting edge practice and research.

Please submit papers, presentations and panels that fall within the practice of systems engineering and associated disciplines. The conference's theme, **“Systems Engineering – ‘New Normal’**,” focuses on applying systems engineering and systems thinking principles and processes to survive and thrive in the constraints and opportunities of the ‘new normal’. It happened, and it is here to stay. So, what are we doing about it? We have to make the ‘new normal’ work for all of us.

The conference provides the opportunity to network with professionals, share ideas, knowledge and practices, and learn more about the most recent innovations, trends, experiences and issues in Systems Engineering from many South African domains. Accepted papers will be presented and published in the conference proceedings. Delegates will also earn Continuing Professional Development (CPD) points for attending the conference.

INCOSE SA appreciates all submissions on Systems Engineering, with particular emphasis on the following domains:

- Healthcare
- Sustainability
- Transportation
- Critical Infrastructure incl. smart cities
- Socio-economics
- Energy & Environment
- Defence & Aerospace

- Autonomous systems
- Education
- Industry 4.0

Emphasis Areas include but are not limited to:

- Critical Infrastructure
- System of Systems (SoS)
- Emerging Technologies
- System Modernization
- Engineering Management
- System Resilience, Reliability, Safety
- Innovative Approaches: Agile, Iterative and Lean
- System Security Engineering
- Internet of Things (IoT) / Cyber-physical systems
- System Sustainment

## Call for Papers

INCOSE SA encourages authors to submit high-quality papers addressing systems engineering focused on the key themes above. This year we have a different approach to submitting papers to the conference. The first submission is an Abstract of the paper you plan to write for the conference. However, you may submit a paper without going the Abstract route. The purpose of the Abstracts is to advertise the conference and identify prospective authors. The Technical Committee will then follow the progress of the papers and provide assistance where requested. The Abstracts may be uploaded at: <https://easychair.org/conferences/?conf=incosesa2022>.

Ideally, a paper should cover the full scope of the issue. Academic papers should cover from theory to theory validation, although papers presenting research proposals coupled with initial results will also be considered. Practice-focused papers should include problem space and systems engineering approach implementation. Papers that provide insight into critical systems engineering applications also align well with the conference theme. Papers must be original work that has not previously been published. Joint authors must nominate a single point of contact.

Submitters must use the INCOSE SA Paper Template to prepare papers. Papers' length should be between 8-15 pages (including graphics). Papers and presentations must be submitted in English, the official language of the Conference.

The close-to-final papers need to be submitted using the EasyChair submission site for Papers. Papers that do not conform to the Preparation Guidelines and Paper Template available under the "Downloads" section of INCOSE's website (<https://www.incose.org.za>) may be rejected without review.

Each draft paper will be double-blind reviewed by at least three INCOSE SA review team

members and judged on a range of parameters specified in the Evaluation Criteria, found under the “Downloads” section of INCOSE’s website (<https://www.incose.org.za>). All authors shall sign an IP release, also available on the website.

Accepted papers will be presented at the Symposium before publication in the Proceedings of the Symposium (conference website) and the INCOSE Papers and Presentations Library. The conference proceedings will be provided on electronic media provided to each delegate. An ISBN will be assigned to the proceedings. The Technical Chair may contact successful authors with further comments to fit in with the other accepted papers and presentations in the program session and track themes.

## **Call for Panels/Roundtables**

For the INCOSE SA conference, the term “panel” broadly refers to a session of more than two individuals that is not accompanied by a formal paper. This may take the form of a traditional panel, a roundtable discussion, an open forum, or a debate. Proposals for “panels” must be submitted to the Panel submission site on EasyChair.

For accepted “panels”, the point of contact is required to provide the information needed for the Preparation Guidelines. Note that the moderator ensures that the panel’s content stays relevant and professional for all panel sessions.

At least three INCOSE SA review team members will review each submittal. The evaluation criteria for Panel proposals can be found under the “Downloads” section of INCOSE’s website (<https://www.incose.org.za>).

## **Call for (Paperless) Presentations**

Paperless presentations (or just “presentations”) provide the opportunity for practitioners to share their work, novel approaches, or interesting problems addressed without writing a formal paper. Sessions are 40 minutes: 30 minutes for presentation with 10 minutes for Q&A.

Submissions for presentations consist of an extended abstract of no more than 1000 words (less than two pages) and should:

- Provide an overview of the topic.
- Clearly identify specific related industries.
- Provide the benefits the audience will take away from the presentation.
- Provide background on the presenter and their qualifications to provide the talk.

Each submittal will be reviewed by at least two INCOSE SA review team members. The Preparation Guidelines and the Evaluation Criteria and Template for Paperless Presentation abstracts can be found available under the “Downloads” section of INCOSE’s website (<https://www.incose.org.za>)

The Paperless presentations must be also be submitted to EasyChair. Please note that accepted presentations are not included in the conference’s proceedings. However, presentations will be posted on the INCOSE Paper and Presentation Library.

## **Submission Timeline**

16 April 2022 : Paper abstract submission  
29 April 2022 : Abstract notification of acceptance  
31 July 2022 : Paper/presentation/panel submission  
2 September 2022 : Paper notification of acceptance  
2 October 2022 : Final submission  
14-16 November 2022 : Conference