The objective of the conference is to bring together, on a common platform, researchers, academicians, application engineers, users of CAD/CAM, robotics and factory automation technologies and methodologies and policy makers. Topics of the conference include:

- Computer-Aided Design CAD
- Computer-Aided Manufacturing CAM
- Computer-Aided Engineering CAE
- Computer-Aided Process Planning CAPP
- Computer-Aided Production Management CAPM
- Computer Integrated Manufacturing CIM
- Design for Manufacture and Assembly
- Flexible Manufacturing Systems FMS
- Artificial Intelligence/Knowledge Based Systems
- Information Technology Applied to Manufacturing
- Computer-Aided Engineering Education
- Concurrent Engineering CE
- Sensors and Applications
- Automation
- Lean Manufacturing
- Logistics
- Modeling and Simulation
- Scheduling
- Rapid Prototype
- Management of Technology
- Operations Management
- Machine Vision
- Cellular Manufacturing
- Education and Training
- Agile Manufacturing
- Total Quality Management
- Socio-Economic Issues
- Mechatronics
- SCADA Systems
- Distributed Control Systems
- Energy and Manufacturing
- Neural Networks
- Mining Robotics
- Mobile Robotics
- Industrial Robotics
- SLAM
- Swarm Robotics
- Robotics Applications

The conference and subsequent local and international collaboration is critical for the development of a competitive South Africa that can be a major player in the global market. It is important that South Africa makes use of its limited resources, by sharing and working with local and international partners. Mechatronics, Robotics and Advanced Manufacturing are also a critical technology for the development of South Africa's manufacturing and automation industries.

The conference will receive abstracts for the conference as well as full papers in a single review step. Once these have been reviewed, accepted papers will then require authors to submit full camera ready papers. These will then be reviewed and only accepted papers, (with corrections, if required); will be presented and published in the proceedings. The proceedings of the conference will get an ISBN number