

## *Special Issue on “Fracture and Fatigue”*

### **International Journal of Engineering, Science and Technology (IJEST)**

#### **Call for Papers**

*Special Issue on: “Fracture and Fatigue”*

Design of critical load bearing components needs careful structural integrity assessments; hence, Fracture and Fatigue field is highly important for the design of machine/structural elements. In order to predict, prevent, control and to suitably treat material failure due to fracture and fatigue, the research community from all over the globe needs to share their knowledge and experience. This special issue serves as a platform for sharing research findings from various research groups from all over the globe.

The objective of the issue is to invite full length original innovative research articles on new findings and developments from researchers, academicians and practitioners from industries and research establishments in the area of fracture mechanics and fatigue. This special issue will focus on all important fundamental aspects and practical applications concerning fracture and fatigue of engineering materials, components and structures.

The topics to be covered include, but not limited to:

- Micromechanics and micro-mechanisms of fracture
- Linear and nonlinear fracture mechanics,
- Brittle fracture, ductile fracture and mixed mode fracture
- Dynamic fracture & impact problems
- Computational fracture mechanics
- Damage tolerance & fracture control
- Fatigue & crack propagation
- Reliability and life estimates of components
- Structural integrity
- Failure analysis and case studies
- Scaling and size effects
- Constraint issues in fracture
- Fracture mechanics testing

#### **Submission Guidelines and Important Dates**

Manuscripts should be in English and normally not exceed 7000 words in length (single column, 10 pt running text, double spacing, Times New Romans). All contributions will be subjected to a blind review process. Manuscripts must be sent electronically to the following email addresses:

s.kudari@rediffmail.com, adali@ukzn.ac.za, sa\_oke@yahoo.com

with the subject title as: Special Issue on “Fracture and Fatigue” in Word document (Microsoft Word 97/2000/2003 version) not later than June 30, 2011. The official website of the journal is found at [www.ijest-ng.com](http://www.ijest-ng.com).

Important dates are as follows:

Deadline for full paper submission:

**June 30, 2011**

First turn of paper review:

**July 31, 2011**

Second turn of paper review:

**August 30, 2011**

Final (Camera-ready) paper submission:

**September 30, 2011**

**Addresses of Guest Editors:**

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