

### **Mechanical Engineering**

1. Design of Autonomous Robots
2. High speed machined surfaces
3. Fault recovery and diagnostics in manufacturing
4. Optical Diagnostics, Sensors and Actuators
5. Design Research and Methodology
6. Complex Fluids
7. Thermo-fluid Engineering
8. Computer-aided industrial design
9. Common rail direct injection (CRDI) engines
10. Environmentally Friendly Engine (EFE)
11. Hydraulics and Pneumatics



## **Computer Science**

1. Artificial Intelligence and Computational Linguistics
2. Graphics, Visualization, and Imaging
3. Human-Computer Interaction
4. Intelligent Systems and Computer Vision
5. Multi-Agent Systems
6. Privacy and Security
7. Embedded Computing
8. Enterprise Computing
9. Networked Sensors and Displays for Distributed Telepresence
10. Trojan horses in cryptographic protocols
11. Compiler optimization at the data-structure and algorithm level.
12. Expressive Human Voice Synthesis
13. Synthesis of Low Voltage Energy Constraint Static CMOS Circuits
14. Genetic Algorithms for High-Level Synthesis in VLSI Design
15. Cloud computing



# KSHITIJ 2014

EUREKA-TOPICS

## Electrical Engineering

1. Circuits and VLSI
2. Signal Processing
3. Robotics and Control
4. Nano and Micro Electromechanical Systems (N/MEMS)
5. Information Systems
6. Bio-EE
7. Photonics/EM/Quantum
8. Integrated Electronic Systems Technology
9. Power system



### **Electronics and Electrical Communication Engineering**

1. Magnetic Amplifiers
2. Electrical Impedance Tomography Or EIT
3. Solid State Electronics
4. Tri-Gate Transistor
5. Carbon Nanotube technology
6. Nano-scale Science and Engineering
7. Biometric Authentication
8. VLSI design and application
9. Biomedical electronics



## **Biotechnology**

1. Bio-Inspired Robotics and Computing
2. Biomechanics and Motor Control
3. Cell and Tissue Engineering and Biomaterials
4. Computational Neuroscience and Evolution
5. Medical Robotics
6. Genetic finger printing
7. Agriculture, Soil, Forest Microbiology
8. Bioremediation
9. Micro factories — Microbial Production of Chemicals and Pharmaceuticals
10. Human Cloning
11. Bio microfluidics