List of publications

Journals

1. An intuitive approach to determine test adequacy in safety-critical software,
   P. Arun Babu, C. Senthil Kumar, N. Murali, and T. Jayakumar,
   *ACM Sigsoft software engineering notes, Volume 37, Issue 5 (Sept. 2012)*.

2. A hybrid approach to quantify software reliability in safety systems of nuclear reactors,
   P. Arun Babu, C. Senthil Kumar, and N. Murali,
   *Annals of nuclear energy, Volume 50, December 2012, Pages 133–140*.

3. Properties of software reliability in safety systems of nuclear reactors,
   P. Arun Babu, C. Senthil Kumar, N. Murali, and T. Jayakumar,
   *Manuscript under review in Journal of systems and software*.

Conferences/Symposiums/Articles

4. Software reliability in safety-critical applications: A case study from the nuclear industry,
   P. Arun Babu, C. Senthil Kumar, N. Murali and T. Jayakumar,

5. Making formal software specification easy,
   P. Arun Babu, N. Murali, P. Swaminathan, and C. Senthil Kumar,
   *2nd International Conference on Reliability, Safety and Hazard*,
6. **Semi-formal property verification in games**,  
   P. Arun Babu and N. Murali,  

**Internal reports**

Versions of the above publications have also appeared in the following internal reports:

1. **A hybrid approach to quantify software reliability in safety systems**  
   AERB/SRI/2012/2007

2. **Method to determine adequacy of software testing for reliability estimation of computer based systems in NPPs**  
   AERB/SRI/2013/2010

3. **Development of software reliability assessment methodology using model and mutation based testing for systems important to safety in FBRs**  
   EIRSG/ICG/RTSD/PRIS(G)/2012-13/IV(8a)

4. **Test case adequacy assessment using mutation based testing and test coverage for computer based safety related systems in FBRs**  
   EIRSG/ICG/RTSD/PRIS(G)/2012-13/IV(8b)