

## Publications Details

- Rohit Pathak , Satyadhar Joshi : Reliability modeling of nano-RFID systems . In: Forschung im Ingenieurwesen, Springer Berlin / Heidelberg (Accepted). Available through:- SpringerLink
- Rohit Pathak , Satyadhar Joshi : Modeling of MEMS based Fuel Cell using SUGAR and Reliability Calculations . In: IEEE Systems Journal (Accepted, Major Revision). Available through:- IEEE Xplore
- Rohit Pathak , Satyadhar Joshi : Developing Reliability Model of MEMS Devices based on Environmental Parameter . In: IEEE/ASME Journal of Microelectromechanical Systems (Accepted, Major Revision). Available through:- IEEE Xplore
- Rohit Pathak , Satyadhar Joshi : Modeling energy & Reliability of a CNT based WSN on an HPC setup . In: IEEE Transaction on Consumer Electronics (Communicated). Available through:- IEEE Xplore
- Rohit Pathak , Satyadhar Joshi : Nanotechnology and MEMS enabled Modeling of Elements in HDD System with Reliability Modeling . In: Journal of Qafqaz University (Accepted). Available through:- Russian Periodicals Catalog, ICAAP, JournalSeek
- Rohit Pathak , Satyadhar Joshi : Modeling and Reliability Analysis of CNT and MEMS based Wireless Sensor Network . In: International Journal of Academic Research. (Accepted) Available through:- IJAR Online Database
- Rohit Pathak , Satyadhar Joshi : Multi-scale Modeling for Nano Scale Phenomenon Using CUDA Based Framework . In: International Conference on Advances in Computing, Control, and Telecommunication Technologies - ACT 2009. December 2009. DOI: 10.1109/ACT.2009.223 Available through:- IEEE Xplore
- Rohit Pathak , Satyadhar Joshi : Multi-Scale Modeling of Nano enabled Solar Cell . In: International Conference on Issues & Challenges in Energy Conversion & Management - ICEM 2009. December 2009.
- Rohit Pathak , Satyadhar Joshi : Intricate Modeling aspects of MEMS based Fuel Cells . In: International Conference on Issues & Challenges in Energy Conversion & Management - ICEM 2009. December 2009.
- Rohit Pathak , Satyadhar Joshi : Implementation of Virtual Reality Based Nano Domain Simulation an HPC Setup . In: International Conference on Electronic Design and Signal Processing - ICEDSP 2009. December 2009. Available through:- IEEE Xplore
- Rohit Pathak , Satyadhar Joshi : Wireless Sensor Network: Modeling and Analysis of MEMS based Nano-Nodes . In: Sensors & Transducers Journal, Vol. 110, Issue 11, November 2009, pp. 120-130 Available through:- Chemical Abstracts
- Rohit Pathak , Satyadhar Joshi : Implementation of virtual reality and agents model based nano domain simulation an HPC setup . In: Proceedings of The First South Central Asian Himalayas Regional IEEE/IFIP International Conference on INTERNET AH - ICI 2009. November 2009. DOI: 10.1109/AHICI.2009.5340270 Available through:- IEEE Xplore

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- Rohit Pathak , Satyadhar Joshi : Recent trends in RFID and a java based software framework for its integration in mobile phones . In: Proceedings of The First South Central Asian Himalayas Regional IEEE/IFIP International Conference on INTERNET AH - ICI 2009. November 2009. DOI: 10.1109/AHICI.2009.5340296 Available through:- IEEE Xplore
- Rohit Pathak , Satyadhar Joshi : Analysis of security issues in SMC based RFID in supply chain management with energy modeling . In: Proceedings of The First South Central Asian Himalayas Regional IEEE/IFIP International Conference on INTERNET AH - ICI 2009. November 2009. DOI: 10.1109/AHICI.2009.5340298 Available through:- IEEE Xplore
- Rohit Pathak , Satyadhar Joshi : Energy modeling in carbon nano tube based wireless sensor networks . In: Proceedings of The First South Central Asian Himalayas Regional IEEE/IFIP International Conference on INTERNET AH - ICI 2009. November 2009. DOI: 10.1109/AHICI.2009.5340294 Available through:- IEEE Xplore
- Rohit Pathak , Satyadhar Joshi : Modeling and analysis of DC traction system under light of current developments in HPC and virtual reality . In: Proceedings of The First South Central Asian Himalayas Regional IEEE/IFIP International Conference on INTERNET AH - ICI 2009. November 2009. DOI: 10.1109/AHICI.2009.5340315 Available through:- IEEE Xplore
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- Rohit Pathak , Satyadhar Joshi : SMC protocol for privacy preserving in banking computations along with security analysis . In: Proceedings of The First South Central Asian Himalayas Regional IEEE/IFIP International Conference on INTERNET AH - ICI 2009. November 2009. DOI: 10.1109/AHICI.2009.5340328 Available through:- IEEE Xplore
- Rohit Pathak , Satyadhar Joshi : Modeling and Analysis of DC Traction System in Light of Recent Innovations from HPC and Virtual Reality . In: International Conference on Advances in Recent Technologies in Communication and Computing, ARTCom 2009. October 2009. DOI: 10.1109/ARTCom.2009.229 Available through:- IEEE Xplore
- Rohit Pathak , Satyadhar Joshi : Security Analysis of Secure Multi-Party Computation using Virtual Parties for Computation on Encrypted Data along with Performance . In: Proceedings of 2009 International Symposium on Computing, Communication, and Control (ISCCC 2009). August 2009. Available through:- ISI Proceedings
- Rohit Pathak , Satyadhar Joshi : Multi-Scale Modeling And Analysis Of Nano-RFID Systems On HPC Setup . In: Proceedings of International Conference on Contemporary Computing, IC3, JIIT University, Noida, Published by Springer in Communications in Computer and Information Science. August 2009. DOI: 10.1007/978-3-642-03547-0\_61 Available through:- Springerlink, Scopus, Conference Proceedings Citation Index(CPCI formerly ISI Proceedings)
- Rohit Pathak , Satyadhar Joshi : Secured Communication For Business Process Outsourcing Using Optimized Arithmetic Cryptography Protocol Based On Virtual Parties . In: Proceedings of International Conference on Contemporary Computing, IC3, JIIT University, Noida, Published by Springer in Communications in Computer and Information Science. August 2009. DOI:

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- Rohit Pathak , Satyadhar Joshi : Reliability Modeling and Optimization of MEMS Elements in Various Devices Using Multi-Scale Concepts. In: Proceedings of Conference on Innovative Technologies in Intelligent System & Industrial Application 2009 (Citisia'09). July 2009. DOI: 10.1109/CITISIA.2009.5224187 Available through:- IEEE Xplore
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- Rohit Pathak , Satyadhar Joshi : RFID: Recent prospectus and commercial applications . In: Proceedings of International Conference On Security and Identity Management (SIM) - 2009. May 2009.
- Rohit Pathak , Satyadhar Joshi : A Novel Protocol for Privacy Preserving Banking Computations using Arithmetic Cryptography . In: Proceedings of International Conference On Security and Identity Management (SIM) - 2009. May 2009.
- Rohit Pathak , Satyadhar Joshi : Optimizing HPC and Parallelization for Computation Nanotechnology in MCCS Environment . In: Proceedings of The 2009 6th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications, and Information Technology (ECTI-CON 2009). May 2009. DOI: 10.1109/ECTICON.2009.5137147 Available through:- IEEE Xplore
- Rohit Pathak , Satyadhar Joshi : MPI and PVM based HPC Setup for Multi ScaleModeling . In: Proceedings of IEEE International Advance Computing Conference (IACC 2010). March 2009.
- Rohit Pathak , Satyadhar Joshi : Distributive Computing for reliability analysis of MEMS devices using MATLAB . In: Proceedings of International Conference On Computing, Communication And Control 2009 (ICAC3-09). January 2009. DOI: 10.1145/1523103.1523155 Available through:- ACM Digital Library

### **Student Level Publications**

- Rohit Pathak , Satyadhar Joshi : Advanced Techniques of Texture Compression. In: *Proceedings of Cognizance 2008*. Indian Institute of Technology-Roorkee, March 2008
- Rohit Pathak , Satyadhar Joshi : Micro Electro Opto-Mechanical Systems. In: *Proceedings of Kshitij - 2008*. Indian Institute of Technology - Kharagpur, February 2008
- Rohit Pathak , Satyadhar Joshi : Micro Electro Mechanical Systems. In: *Proceedings of Cognizance - 2008*. Indian Institute of Technology - Roorkee, March 2008