

## CURRICULUM – VITAE

### **DR. ANKUR SHUKLA**

Assistant Professor  
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### **EDUCATIONAL QUALIFICATION:**

Ph.D. (Software Reliability)	Indian Institute of Technology (ISM), Dhanbad	2017
M.Sc.(Mathematics and Scientific Computing)	Motilal Nehru National Institute of Technology, Allahabad.	2012
B.Sc.(Physics, Chemistry, Mathematics)	University of Allahabad	2010

### **ACADEMIC/RESEARCH POSITIONS HELD**

Assistant Professor	IGEC, Sagar	Jan. 2018- Present
Senior Research Fellow	IIT(ISM) Dhanbad	March 2015- Feb.2017
Junior Research Fellow	IIT(ISM) Dhanbad	Feb. 2013-Feb. 2015
Visiting Faculty	MNNIT, Allahabad.	Aug. 2012-Dec. 2012

### **AREA OF RESEARCH:**

Software Reliability, Software Testing, Software Release Policy

### **AWARDS/FELLOWSHIP**

- Secured 2<sup>nd</sup> Position in M.Sc. (Mathematics and Scientific Computing), Motilal Nehru National Institute of Technology, Allahabad.
- Indian Institute of Technology (ISM) Junior Research Fellow, During 25<sup>th</sup> Feb. 2013- 24<sup>th</sup> Feb. 2015.
- Indian Institute of Technology (ISM) Senior Research Fellow, During 25<sup>th</sup> Feb. 2015- 24<sup>th</sup> Feb. 2017.
- Young Scientist International Travel Support by Science and Engineering Research Board, New Delhi, India to attend 23<sup>rd</sup> ISSAT Conference on RQD 2017, Chicago, Illinois, USA.

### **MEMBERSHIP IN SCIENTIFIC ORGANIZATIONS:**

- Life member of Society of Applied Mathematics, ISM Dhanbad.
- Life member of Indian Mathematical Society. (Membership No. L/2016/70), 2016
- Life Member of Indian Science Congress Association. (Membership No. L30006), 2016
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### **REVIEWER:**

- IEEE Transaction on Reliability

- 8th Vienna International Conference on Mathematical Modelling, Vienna University of Technology, Vienna, Austria.

## **PUBLICATIONS:**

### **(a) JOURNALS:**

- (1) Subhashis Chatterjee and **Ankur Shukla**, (2017) “An Ideal Software Release Policy for an Improved Software Reliability Growth Model Incorporating Imperfect Debugging with Fault Removal Efficiency and Change Point”, *Asia-Pacific Journal of Operational Research (APJOR)*, 34(3), 1-21 (World Scientific). (**SCI-E and Scopus**)
- (2) Subhashis Chatterjee and **Ankur Shukla**, (2016) “Change point–based software reliability model under imperfect debugging with revised concept of fault dependency”, *Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability*, Vol. 230(06), pp. 579-597 (Sage). (**SCI-E and Scopus**)
- (3) Subhashis Chatterjee and **Ankur Shukla**, (2016) “Modeling and analysis of software fault detection and correction process through Weibull type fault reduction factor, change point and imperfect debugging”, *Arabian Journal for Science and Engineering*, 41(12), pp. 5009–5025 (Springer). (**SCI-E and Scopus**)

### **(b) CONFERENCE PROCEEDINGS:**

- (1) Subhashis Chatterjee, Bhagyashree Chaudhuri, Chandan Bhar and **Ankur Shukla**, “Estimation of software reliability and development cost using interval type-2 fuzzy AHP”, *Proceeding of 2017 International Conference on Infocom Technologies and Unmanned Systems (Trends and Future Directions) (ICTUS), December 18-20, 2017, Dubai*. (IEEE Xplore) (**Scopus**)
- (2) **Ankur Shukla**, Subhashis Chatterjee, Bhagyashree Chaudhuri, “Performance Analysis of Change Point based Software Reliability Growth Model Incorporating Both Fault Reduction Factor and Test Coverage”, *Proceedings of the ISSAT International Conference on Reliability and Quality in Design 2017*, Chicago, Illinois, USA, pp. 337-341. (**Scopus**)
- (3) Subhashis Chatterjee, Bhagyashree Chaudhuri, Chandan Bhar and **Ankur Shukla**, “Modeling and Analysis of Reliability and Optimal Release Policy of Software with Testing Domain Coverage Efficiency”, *Proceeding of 5th International Conference on Reliability, Infocom Technologies and Optimization 2016, Amity University, Noida, U.P.* (IEEE Xplore) (**Scopus**)
- (4) Subhashis Chatterjee and **Ankur Shukla**, (2015) “Effect of Test Coverage and Change Point on Software Reliability Growth Based on Time Variable Fault Detection Probability,” *Journal of Software*, vol. 11, no. 1, pp. 110-117, 2016 (7th International Conference on Computer Technology and Development-2015, Singapore).
- (5) Subhashis Chatterjee and **Ankur Shukla** “Software reliability modeling with different type of faults incorporating both imperfect debugging and change point”, *Proceeding of 4th International Conference on Reliability, Infocom Technologies and Optimization 2015, Amity University, Noida, U.P.* (IEEE Xplore) (**Scopus**)
- (6) Subhashis Chatterjee and **Ankur Shukla** “Enhancing the Predictive Capability of Testing Effort Dependent Software Reliability Model through Imperfect Debugging and Change Point”, *Proceeding of IMBIC, 8th International Conference on Mathematical Sciences for Advancement of Science and Technology*, 3 (2014), 224-234.