

Satish Kumar



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Education

- 2016 – Present **Doctor of Philosophy*** – Pursuing from School of Computer Science, University of Birmingham, Birmingham, UK. (Expected thesis submission- May 31, 2020)
PhD Thesis Title: *Technical Debt-Aware Dynamic Service Composition in SaaS Cloud*.
Supervisors: Dr Rami Bahsoon and Prof. Rajkumar Buyya (External supervisor, The University of Melbourne, Australia)
- 2009 – 2011 **Master of Technology (Software Engineering)** – School of Information & Communication Technology, Gautam Buddha University, Greater Noida, India
- 2010 – 2011 **Postgraduate Certificate in Information Technology** – Department of Computing, Sheffield Hallam University, Sheffield, U.K.
- 2006 – 2009 **Master of Computer Application** – Department of Computer Science & Engineering, M.M.M, Engineering College, Gorakhpur, Uttar Pradesh Technical University Lucknow (now AKTU Lucknow) India.
- 2003 – 2006 **Bachelor of Computer Application** – Department of Computer Science, Bhartiya Institute of Management Technology, Chaudhary Charan Singh University, Meerut, India.

Certifications

- 2009 **SUN SCJP** – Sun Certified Programmer for the JAVA platform (Score 98%)
2010 **DB2 9 Fundamentals** – IBM Certified Database Associate

Publications

- IEEE/ACM SEAMS, 2020 **S. Kumar**, T.Chen, R. Bahsoon, and R. Buyya. DATESSO: Self-Adapting Service Composition with Debt-Aware Two Level QoS Constraints Reasoning, *IEEE/ACM 15th International Symposium on Software Engineering for Adaptive and Self-Managing Systems*, Seoul, South Korea, 2020. [Accepted]
- IEEE ICWS, 2019 **S. Kumar**, R. Bahsoon, T.Chen and R. Buyya. Identifying and Estimating Technical Debt for Service Composition in SaaS Cloud, *25th IEEE International Conference on Web Services*, Milan, Italy, 2019.
- IEEE ICPADS, 2018 **S. Kumar**, R. Bahsoon, T.Chen and R. Buyya. Multi-Tenant Cloud Service Composition using Evolutionary Optimization, *24th IEEE International Conference on Parallel and Distributed Systems*, Singapore, 2018.
- CONFLUENCE, 2018 A. Vashishtha, **S.Kumar**, P. Verma, R. Porwal. A Self-Adaptive View on Resource Management in Cloud Data Center. *8th International Conference on Cloud Computing, Data Science & Engineering*, IEEE Press, Noida, India, 2018

Under Review

- IEEE TSE, 2020 **S. Kumar**, T.Chen, R. Bahsoon, and R. Buyya. DebtCom: Technical Debt-Aware Service Recomposition in SaaS Cloud, *IEEE Transactions on Software Engineering*, 2020. [Under review]

Teaching Experience

- 2016 – Present **Teaching Assistant** – School of Computer Science, University of Birmingham, U.K.
Currently, I involve in several academic activities at undergraduate and postgraduate level.
- Delivering small class room teaching (up to 40 students)
 - Delivering software engineering seminar
 - Supervising student's group project
 - Students assignment marking and Help desk
- 2014 – 2016 **Lecturer** – Department of Information Technology, IMS Ghaziabad, Dr A.P.J. Abdul Kalam Technical University, Lucknow, India.
I was involved in several academic activities at postgraduate level.
- Delivering class room teaching.
 - Supervising students project
 - Coordinator: Industrial student's project and IT Seminar
- 2011 – 2013 **Full time guest faculty(Teaching Associate)** – School of Information and Communication Technology, Gautam Buddha University, Greater Noida, India
I was involved in several academic activities at undergraduate and postgraduate level.
- Delivering class room teaching
 - Supervising students project

Module Tutoring

- 2016-2020 I am working in following modules at the University of Birmingham, U.K.
- Autumn Software Engineering – I
- Autumn Software Workshop (Java Programming)
- Spring Software Engineering – II
- Spring Software Workshop (Java Programming) – extended

Selected Talks

- 2019 Invited talk at seminar of Software Engineering Research Group, School of Computer Science, University of Birmingham, UK.
- 2018 Invited talk at seminar of Software Engineering Research Group, School of Computer Science, University of Birmingham, UK.
- 2017 Invited talk at seminar of Software Engineering Research Group, School of Computer Science, University of Birmingham, UK.
- 2016 Shyam Lal College, University of Delhi, India

Technical Proficiency

- Programming Languages Java and Python
- Modelling Languages UML, BPML and BPEL
- Web Technologies Web Service, Microservices, Java Script, and HTML
- framework and Tools Spring Boot, jBPM, JUnit, Maven, Apache Tomcat, Hibernate, Docker
- Word Processing LATEX and MS Office

References

- Dr Rami Bahsoon**– Senior Lecturer and founding member of Birmingham Software Engineering Research Group, School of Computer Science, University of Birmingham, UK.
- Dr Tao Chen**– Lecturer, Department of Computer Science, Loughborough University, UK.