

Curriculum Vitae



Nishant Saurabh, MSc., PhD.

Distributed and Parallel Systems (DPS)

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Research Interests

Research Areas

- Distributed systems, Cloud, FOG, and Edge Computing
- Performance modeling and optimization
- Performance monitoring and observability

Current Position

Postdoc Researcher, Distributed and Parallel Systems (DPS) Group, Institute for Informatics, University of Klagenfurt, Austria.

Educational Background

Ph.D. in Computer Science, University of Innsbruck, Austria. [June 2021]

Specialization - Distributed Systems and Cloud Computing.

Ph.D. thesis title - **On Semantics and Pareto (Inter-) Dependencies for Resource Management In ‘IaaS Clouds’.**

Ph.D. Supervisor - Univ.-Prof. DI Dr. Radu Prodan, Full Professor, Distributed and Parallel Systems Group, Institute of Information Technology, University of Klagenfurt, Austria.

Ph.D Co-Supervisor - Univ.-Prof. DI Dr. Thomas Fahringer, Full Professor, Distributed and Parallel Systems Group, Department of Computer Science, University of Innsbruck, Austria.

Masters in Computer Science (MSc.), Vrije Universiteit, Amsterdam. [August 2014]

Specialization - High Performance Distributed Computing.

Masters Thesis - **Improving the Performance of Moore-Penrose pseudo-inverse for a Graphs Laplacian Using GPU.**

Masters Thesis Supervisor - Dr. Ana Lucia Varbanescu, Associate Professor, Informatics Institute, University of Amsterdam, Netherlands.

Bachelors in Computer Science and Engineering (B.E.), Prof. Ram Meghe Institute of technology and Research(Affiliated to SGBAU University, Maharashtra), India. [May 2010].

Bachelors Thesis - **Fuzzy Logic Based Load Balancing.**

Bachelor Thesis Supervisor - Dr. C.A. Dhote, Professor, Computer Science, Prof. Ram Meghe Institute of technology and Research, India.

- Past/Current Projects & Responsibilities**
- **Scientific Coordinator & Work Package Leader: EU Horizon H2020 Project ARTICONF** (Smart Social Media Ecosystem in a Blockchain Federated Environment) [January 2019 - June 2022] - Active.
 - **Work Package Leader: Austrian FFG Project ADAPT** (Adaptive and Autonomous Data Performance Connectivity and Decentralized Transport Decision-making Network) [March 2021 - February 2023] - Active.
 - **Researcher and Developer: EU Horizon H2020 Project ENTICE** (Decentralised Repositories for Transparent and Efficient Virtual Machine Operations) [February 2015 - February 2018] - Finished.
 - **Researcher and Developer: Austrian FFG Project Tiroler-Cloud** (Energy-aware Federated Cloud for Applications from Industry and Research) [March 2017 - August 2019] - Finished.
- Awards**
- **IEEE Computer Society TCPP (Technical Committee on Parallel Processing) travel grant award**, 33rd IEEE International Parallel & Distributed Processing Symposium, IPDPS 2019, Rio de Janeiro, Brazil.
 - **YSM (Young Scientist Mentoring) scholarship** 2020/21 for Junior Researchers, University of Klagenfurt.
- Program Committee**
- **IEEE BRAIN** 2020, 2021.
 - **LSDVE** 2021.
- Reviewer**
- Journals**
- IEEE Transactions on Parallel and Distributed Systems (TPDS).
 - Journal of Grid Computing.
 - Software: Practice and Experience.
 - IEEE Access.
 - IEEE Transactions on Industrial Informatics.
 - Journal of Parallel and Distributed Computing-Elsevier(JPDC).
- Conferences**
- UCC 2015.
 - PDP 2017, 2018, 2019, 2020.
 - ICA3PP 2017.
 - ICPE 2016.
 - SBAC-PAD 2018.
- Supervision Activities**
- **Alexander Lercher**, MSc. student (ARTICONF project).
 - **Manuel Herold**, MSc. student (ARTICONF project).
 - **Bogdan Mihai**, MSc. student (ARTICONF project).
 - **Luca Braun**, BSc. student (ARTICONF project).
 - **Julian Remmers**, MSc. student (ENTICE project).
 - **Francesco Gateano**, MSc. student (ENTICE project).
- Teaching Activities**
- **Distributed Computing Infrastructures**, Upcoming Masters course: 623.502 (Winter semester 2021/22).

Work Experience

Research Project Assistant, ITEC, University of Klagenfurt, Klagenfurt.
March 2018 - June 2021.

Research Project Assistant, DPS, University of Innsbruck, Innsbruck.
July 2015 - February 2018.

Software Developer-full time, Stormbits BV, Amsterdam.
September 2014 - April 2015.

Software Developer-part time, TwelveCubes, Amsterdam
September 2013 - August 2014.

Software **Expelliarmus**, Semantic management of Virtual Machine Images. [expelliarmus-code-repository: <https://github.com/ExpelliarmusSuperComp>].

Technical Skills

<u>Cloud Platforms:</u>	Amazon EC2, OpenStack.
<u>Cloud Frameworks:</u>	JClouds, Cloudwatch, Prometheus.
<u>DevOps Frameworks:</u>	Kubernetes, Dockers.
<u>Web Services:</u>	Apache Tomcat, Django.
<u>Programming Language:</u>	Java, Python.
<u>Operating System:</u>	Linux.
<u>Distributed Frameworks:</u>	RabbitMQ, Celery, Hive2Hive.

Nationality Indian

Languages Known English(*fluent in reading and writing*), Hindi(*native*)

References

Dr. Radu Prodan Full Professor Distributed and Parallel Systems Institute of Information Technology University of Klagenfurt, Austria. Email: Radu.Prodan@aau.at	Dr. Thomas Fahringer Full Professor Distributed and Parallel Systems Department of Computer Science University of Innsbruck, Austria. Email: tf@dps.uibk.ac.at
Dr. Zhiming Zhao Assistant Professor Systems and Networking Lab University of Amsterdam Amsterdam, Netherlands. Email: z.zhao@uva.nl	Dr. Antorweep Chakravorty Associate Professor, Dept. of Computer and Electrical Technology University of Stavanger Stavanger, Norway. Email: antorweep.chakravorty@uis.no
Dr. Gyan Ranjan Distinguished Data Scientist (Director) Global AI Accelerator, Ericsson Santa Clara, CA United States of America. Email: gyan.ranjan@ericsson.com	Dr. Ana Lucia Varbanescu Associate Professor, Systems and Networking Lab University of Amsterdam Amsterdam, Netherlands. Email: a.l.varbanescu@uva.nl