Resume - Unnikrishnan Cheramangalath

Address	Assistant Professor
	Department of Computer Science and Engineering
	Indian Institute of Technology Palakkad
Email	unnikrishnan@iitpkd.ac.in

Profile

I am a faculty in the Department of Computer Science and Engineering at Indian Institue of Technology (IIT) Palakkad. I graduated with a PhD in Computer Science from Indian Institute of Science (IISc), Bangalore in 2018. My area of specialization is compilers and programming languages.

Education

2011-2017 PhD in Computer Science -Department of CSA, Indian Institute of Science, Bangalore

Internship	Sept 1st 2015- Oct 31st, 2015
	Under Prof. Sebastian Hack, Department of Computer
	Science, Saarland University, Saarbrücken, Germany.
	Falcon: A Graph Manipulation Language for
Thesis Title	Distributed Heterogeneous Systems

2002-2004 M.Tech in Computer and Information Science - Department of Computer Science, CUSAT

1998-2002 B.Tech in Computer Science and Engineering - Government Engineering College, Thrissur

Research Publications

- Falcon: A Graph Manipulation Language for Heterogeneous Systems. Unnikrishnan Cheramangalath, Rupesh Nasre and Y.N. Srikant. ACM Transactions on Architecture and Code Optimization. January 2016, Volume 12, Issue 4. https://dl.acm.org/citation.cfm?id=2842618

- DH-Falcon: A Language for Large-Scale Graph Processing on Distributed Heterogeneous System. Unnikrishnan Cheramangalath, Rupesh Nasre and Y.N. Srikant. IEEE International Conference on Cluster Computing (CLUSTER), 2017. https://ieeexplore.ieee.org/document/8048957

- Large Scale Graph Processing In a Distributed Environment. Nitesh Upadhyay, Parita Patel, Unnikrishnan Cheramangalath, Y.N. Srikant. Heteropar, Euro-Par 2017 Parallel Processing Workshops (2018). https://link.springer.com/chapter/10.1007/978-3-319-75178-8_38

- Portability in Incremental Compilers. P R Mahalingam, Unnikrishnan C. Advances in Computing and Communication, 2011. https://link.springer.com/chapter/10.1007/978-3-642-22720-2_59

- Taming the War in Memory: A Resilient Mitigation Strategy Against Memory Safety Attacks in CPS. Eyasu Getahun Chekole, Unnikrishnan Cheramangalath, Sudipta Chattopadhyay, Martin Ochoa, Guo Huaqun (arxiv), 2018. (https://arxiv.org/abs/1809.07477)

- Custom Code Generation for a Graph DSL. Bikash Gogoi, Unnikrishnan Cheramangalath, Rupesh Nasre (arxiv), 2019. (https://arxiv.org/abs/1903.01665).

Employment History

Feb 2018 - Singapore University of Technology and Design (SUTD), Singapore
Mar 2019 *Research Fellow*

Nov 2006- Department of CSE, Rajagiri School of Engineering and Technology, Cochin, Kerala
July 2011 *Assistant Professor*

Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu
Nov 2004- MEA Engineering College, Malappuram, Kerala
Oct 2006 *Lecturer (Equivlent to Assistant Professor- Current Pay Scale)*

References

Y.N. Srikant
Professor
Department of Computer Science & Automation
Indian Institute of Science Bangalore
srikant@iisc.ac.in

Rupesh Nasre
Assistant Professor
Department of Computer Science & Engineering
Indian Institute of Technology Madras
email: rupesh@cse.iitm.ac.in

Deepak D'Souza
Professor
Department of Computer Science & Automation
Indian Institute of Science Bangalore
email: deepakd@iisc.ac.in

Rajib Mall
Professor
Department of Computer Science and Engineering
Indian Institute of Technology Kharagpur
email: rajib@cse.iitkgp.ernet.in