

## Curriculum Vitae

Name: **Satish Narayana Srirama**  
Address: Research Professor  
Head of Mobile & Cloud Lab  
Institute of Computer Science  
University of Tartu  
Ülikooli 17 - 324, Tartu 50090, Estonia  
Mobile: +372 737 6422  
Email: [srirama@ut.ee](mailto:srirama@ut.ee)  
Webpage: <http://math.ut.ee/~srirama/>  
Date of Birth: 23<sup>rd</sup> August 1978  
Nationality: Indian



### Summary

- More than 18 years of experience in design and development of SOA, J2EE, Mobile, Intranet/Internet and cloud based applications. Managed several national, EU and international, collaborative, academic, research and industrial projects.
- Good communication and management skills.

### Educational qualification

- *venia legendi (Habilitation)* from **University of Tartu**, Estonia on 13<sup>th</sup> Mar '12.
- **Doctor of Philosophy (PhD)** in Computer Science from **RWTH Aachen University, Germany**, during Aug '04 – Sep '08.  
Thesis title: *Mobile Hosts in Enterprise Service Integration*
- **Master of Science (M.Sc)** in Software Systems Engineering from **RWTH Aachen, Germany**, during Oct '02 – Jul '04.  
Thesis title: *Concept, implementation and performance testing of a mobile Web Service provider for smart phones*
- **Bachelor of Technology (B.Tech)** in Computer Science & Systems Engineering from **Andhra University, India** during Jun' 95 – Apr' 99.

### Professional career

#### Tenured/Continuing Appointments:

- Currently working as **Research Professor** and **Head of Mobile & Cloud Lab** (<http://mc.cs.ut.ee/>) at Institute of Computer Science, **University of Tartu (UT)**, Estonia. Joined UT in July 2009 as **Researcher**. Promoted to **Senior Researcher** in Sep 2010, to **Associate Professor** in Sep 2012 and to **Research Professor** on 1<sup>st</sup> Jan 2018.
- Worked as **Postdoctoral Researcher** at Information Systems and Databases Group, **RWTH Aachen University, Germany** from Sep '08 to Jun '09.
- Worked as **Research Assistant** at Information Systems and Databases Group, **RWTH Aachen, Germany** from Aug '04 to Aug' 08.

- Worked as **Research Assistant** at **Ericsson GMBH/ Research**, Aachen, Germany from Nov '03 to Mar '08.
- Worked as software Engineer at **Nevis Networks (I) Pvt. Ltd.**, Pune, India from Aug '04 to Oct '04.
- Worked as **Software Engineer** at **B2B Software Technologies Ltd, RapidSoft Networks Ltd** and **Waltair Info Solutions (P) Ltd**, India during Jul '99 to Sep '02.

#### **Short Term/Visiting Appointments:**

- **Visiting Professor** at School of Computer and Information Sciences, **University of Hyderabad**, India from Jan 2018 to date.
- Honorary **Visiting Professor** at Department of Computing and Information Systems, **University of Melbourne**, Australia from Apr 2017 till Aug 2017.

#### **Academic activities**

##### **1. Research interests**

Currently, my main research interest lies in and around cloud computing, mobile applications and Internet of Things (IoT) domains.

- Cloud Computing

The research goal is to study the migration of enterprise applications to the cloud and to study their performance on the cloud. It also deals with designing cloud economic, deployment and auto-scaling models.

- Data Science on the Cloud

The research goal is to study the migration of scientific computing, and large-scale and real-time data processing applications to the cloud and to reduce these applications and algorithms to distributed computing frameworks ideal for cloud such as the MapReduce, Spark and Bulk Synchronous Parallel.

- Mobile Cloud

The goal of the research is to investigate how to efficiently harness cloud resources within the mobile applications. It specifically deals with task delegation and code offloading models of mobile cloud applications.

- Internet of Things

The goal of this research is to overcome the challenges of Cloud-centric Internet of Things (CIoT) and Fog Computing. The challenges include: interoperability, autonomous machine-to-machine communication, automatic configuration, energy efficiency, trustworthiness, edge analytics etc.

- Mobile Web Services

This research theme deals with the invocation, provisioning, discovery and integration of web services from smart phones, in developing mobile applications.

Detailed list of the specific research projects is available at

<http://mc.cs.ut.ee/mcsite/projects>

## 2. Publications

I have co-authored over **130** referred publications in international conferences and journals. Complete up to date list of publications is provided at the end of the document as **Appendix B** and is maintained at <http://math.ut.ee/~srirama/publications.html>

Here are the top 10 publications (Data taken on 8<sup>th</sup> July 2019)

1. S. N. Srirama, P. Jakovits, E. Vainikko: Adapting Scientific Computing Problems to Clouds using MapReduce, *Future Generation Computer Systems Journal*, 28(1):184-192, 2012. Elsevier press. DOI 10.1016/j.future.2011.05.025. (**CORE journal ranking: A**)
2. R. Buyya, S. N. Srirama, G. Casale, R. Calheiros, Y. Simmhan, B. Varghese, E. Gelenbe, B. Javadi, L. M. Vaquero, M. A. S. Netto, A. N. Toosi, M. A. Rodriguez, I. M. Llorente, S. di Vimercati, P. Samarati, D. Milojicic, C. Varela, R. Bahsoon, M. Assuncao, O. Rana, W. Zhou, H. Jin, W. Gentsch, A. Zomaya, H. Shen: A Manifesto for Future Generation Cloud Computing: Research Directions for the Next Decade, *ACM Computing Surveys*, ISSN 0360-0300, 51(5):105, 38 pages, 2019. ACM Press, New York, USA. DOI: <https://doi.org/10.1145/3241737>. (**CORE journal ranking: A\***)
3. H. Flores, S. N. Srirama: Mobile Cloud Middleware, *Journal of Systems and Software*, ISSN: 0164-1212, 92(1):82-94, 2014. Elsevier. DOI: 10.1016/j.jss.2013.09.012. (**CORE journal ranking: A**)
4. R. Mahmud, S. N. Srirama, R. Kotagiri, R. Buyya: Quality of Experience (QoE)-aware Placement of Applications in Fog Computing Environments, *Journal of Parallel and Distributed Computing*, ISSN: 0743-7315, 2018. Elsevier. DOI: 10.1016/j.jpdc.2018.03.004 (In Print) (**CORE journal ranking: A\***)
5. J. Mass, C. Chang, S. N. Srirama: Edge Process Management: A Case Study on Adaptive Task Scheduling in Mobile Internet of Things, *Internet of Things Journal*, ISSN: 2542-6605, 6:100051, 17 pages, 2019. Elsevier. DOI: <https://doi.org/10.1016/j.iot.2019.100051>
6. B. Zhou, A. V. Dastjerdi, R. N. Calheiros, S. N. Srirama, R. Buyya: mCloud: A Context-aware Offloading Framework for Heterogeneous Mobile Cloud, *IEEE Transactions on Services Computing*, ISSN: 1939-1374, 10(5):797-810, 2017. IEEE. DOI: 10.1109/TSC.2015.2511002. (**Citation count: 54, Impact Factor: 4.418**)
7. H. Flores, P. Hui, S. Tarkoma, Y. Li, S. N. Srirama, R. Buyya: Mobile Code Offloading: From Concept to Practice and Beyond, *IEEE Communications Magazine*, ISSN: 0163-6804, 53(3):80-88, 2015. IEEE. DOI:10.1109/MCOM.2015.7060486. (**Citation count: 112, Impact Factor: 10.435**)
8. M. Adhikari, S. N. Srirama: Multi-Objective Accelerated Particle Swarm Optimization with a Container-based Scheduling for Internet-of-Things in Cloud Environment, *Journal of Network and Computer Applications*, ISSN: 1084-8045, 137:35-61, 2019. Elsevier. DOI: <https://doi.org/10.1016/j.jnca.2019.04.003> (**CORE journal ranking: A**)
9. J. Viil, S. N. Srirama: Framework for Automated Partitioning and Execution of Scientific Workflows in the Cloud, *The Journal of Supercomputing*, ISSN: 0920-8542, 74(6):2656–2683, 2018. Springer. DOI: 10.1007/s11227-018-2296-7 (**CORE**

**journal ranking: B)**

10. S. N. Srirama, M. Jarke, W. Prinz: Mobile Web Service Provisioning, Proceedings of the Advanced International Conference on Telecommunications and International Conference on Internet and Web Applications and Services (AICT-ICIW 2006), February 23-25, 2006, pp. 120-125. IEEE Computer Society Press. (**Citation count:** 185, **CORE ranking:** C)

### **3. Keynote/Invited Talks and Guest Lectures**

Delivered keynotes and invited talks at several international conferences and workshops. Some of the notable ones are mentioned here. I have also delivered guest lectures and invited talks at several esteemed universities and institutes. Detailed list of my invited talks is available at <http://kodu.ut.ee/~srirama/talks.html>

- Mobile Web and Cloud Services Enabling Internet of Things, *Keynote Talk*, 8th IEEE/ACM International Conference on Utility and Cloud Computing (UCC 2015), December 07-10, 2015, Limassol, Cyprus.
- Mobile and Cloud Centric Internet of Things, *Keynote Talk*, International Research Workshop on Cloud Computing (RWCC-2016), December 22-23, 2016, Delhi, India.
- Mobile Web and Cloud Services Enabling Internet of Things, *Keynote Talk*, International Conference of Advanced Computing (ICAC-2016), October 26-27, 2016, Kolkata, India.
- Internet of Things and Smart Solutions Laboratory: Research and Industrial Collaboration, *Invited Talk*, INTERNATIONAL CONFERENCE - INNOVATION: NOW IS THE FUTURE, September 28, 2016, Vilnius, Lithuania.
- Mobile Cloud Computing: Concepts, applications and beyond, *Invited Talk*, One Week Research Oriented Workshop on Cloud +/GPU Computing, August 08-12, 2016, JNTU Kakinada, India.

### **4. Research grants / Evaluation panels**

Acquired grants worth more than **six million** Euros in the past 10 years for University of Tartu. I am principle investigator of several national, EU and international, collaborative, academic, research and industrial projects. Further details are available as **Appendix A** and are maintained at <http://kodu.ut.ee/~srirama/grants.html>

In addition I have been an evaluator for the following grants.

- I was a project grant evaluator and panel member for Academy of Finland, in June 2019.
- I was a project grant evaluator and panel member for Academy of Finland, in February 2019.
- I was a project grant evaluator for CELSA International research funding in December 2018.
- I was a project grant evaluator for Italian Ministry for Education, from September 2018.
- I was a project grant evaluator for Cyprus Research Promotion Foundation, in October 2017.
- I was a project grant evaluation panel member for a call in ICTPLUSS, the strategic ICT scheme at The Research Council of Norway (RCN), in January 2017.
- I am a project grant evaluator for Research Directorate, Kuwait Foundation for the Advancement of Science, from 2014.

## 5. Administrative and professional activities

I am an Editor of *Wiley Software: Practice and Experience* Journal, a 49 year old journal from Jan 2016 - to date, an Associate Editor of *IEEE Transactions in Cloud Computing* from 2013 till Jan 2017, and a Technical Program Committee member of several international conferences and workshops. I also have peer reviewed several international journal publications. Further details are available at <http://math.ut.ee/~srirama/pc.html>

## 6. Honours/awards

- Our co-authored paper won Best Student Paper Award at 17th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT-16), Dec 16-18, 2016.
- Won Best Paper Award at 4th International Conference on Mobile Services (MS 2015), June 27 - July 2, 2015.
- Nominee for the Outstanding Paper Award at the 2013 (11th) International Conference on High Performance Computing & Simulation (HPCS 2013), July 01-05, 2013.
- Awarded “Researcher of the year - 2011” by Institute of Computer Science, University of Tartu.
- Won Best Paper Award at the First International Conference on Mobile Services, Resources, and Users (MOBILITY 2011), October 23-29, 2011.
- Won Best Paper Award at Fifth International Conference on Internet and Web Applications and Services (ICIW 2010), May 9-15, 2010.
- Won Innovative Paper Award at International Conference for Internet Technology and Secured Transactions (ICITST-2006), September 11-13, 2006.

## Teaching and Research supervision

### 1. New lecture courses developed

- Distributed Data Processing on the Cloud, University of Tartu, Fall 2018. The course will be offered every alternate semester in future.
- Large-scale Data Processing on the Cloud, University of Tartu, Fall 2013. The course was offered every alternate semester since then till Fall 2017.
- Mobile and Cloud Computing Seminar, University of Tartu, Spring 2012. The course is being offered every semester since then.
- Mobile Application Development – Projects, University of Tartu, Spring 2012. The course was offered every semester since then until Spring 2018.
- Mobile Application Development, University of Tartu, Fall 2011. The course is being offered every alternate semester since then.
- Basics of cloud computing, University of Tartu, Spring 2010. The course is being provided every alternate semester since then.
- Basics of grid and cloud computing, University of Tartu, Spring 2010. The course was offered every alternate semester till 2013.
- Distributed systems seminar, University of Tartu, Fall 2009. The seminar is being provided every semester since then.

Details of my teaching profile are available at <http://math.ut.ee/~srirama/teaching.html>

## 2. Supervision

No of PhD students supervised	:	6
No of PhD students currently supervising:		4
No of Masters students supervised	:	34

Details of research supervision are available at <http://math.ut.ee/~srirama/supervision.html>

## Public and Social activities

- Appeared in several press releases with dissemination of project results.
- Gave project demonstrations for Estonian television and press.
- Delivered guest lectures and invited talks at several esteemed institutes.
- Acting as the board member of Indian Cultural Association, Estonia and have organized several festivals and events at several places in Estonia.
- IoTSS Lab is established at Mobile & Cloud Lab in collaboration with Telia (Biggest telecommunications provider in Baltic countries). The lab has support for smart home and smart office environments. We regularly conduct events for general public and guests range from school children to ambassadors of several countries.  
<http://mc.cs.ut.ee/mcsite/iot-lab>

## References

- **Prof. Rajkumar Buyya**

Director, Cloud Computing and Distributed Systems (CLOUDS) Lab  
Department of Computing and Information Systems  
The University of Melbourne  
Room 7.22, Doug McDonnell Building, Parkville Campus  
Melbourne, VIC 3010, Australia  
Phone: +61-3-8344 1344 (office); +61-431799078 (mobile)  
Fax: +61-3-9349 4596;  
Email: [rbuyya@unimelb.edu.au](mailto:rbuyya@unimelb.edu.au)  
URL: <http://www.buyya.com> | <http://www.cloudbus.org/~raj>

- **Prof. Marlon Dumas**

Software Engineering Group  
Institute of Computer Science  
University of Tartu  
J Liivi 2, Tartu 50409, Estonia  
  
Telephone: +372 737 5473  
Fax: +372 737 5468  
E-mail: [marlon.dumas@ut.ee](mailto:marlon.dumas@ut.ee)  
URL: <http://kodu.ut.ee/~dumas/>

- **Prof. Matthias Jarke**

Professor of Information Systems and  
Databases  
RWTH Aachen University  
6230, 2nd floor, building: E2,  
Ahornstr. 55, Aachen 52056, Germany  
Telephone: +49 241 80 21500  
Fax: +49 241 80 22321  
E-mail: [jarke@informatik.rwth-aachen.de](mailto:jarke@informatik.rwth-aachen.de)  
<http://dbis.rwth-aachen.de/cms/staff/jarke>

## Appendix A: Acquired Research Grants and Project Funding

1. G. Casale (Coordinator), W. Van Den Heuvel, **S. Srirama** (University of Tartu (UTR) – Principle Investigator), M. Artač, F. Leymann, D. Presentza, V. Tountopoulos, M. Long. Rational decomposition and orchestration for serverless computing (RADON). European Union (EU) H2020. Jan 2019 – Jun 2021. UTR share: 411,000 EUR, Total budget: 3,998,138 EUR.
2. M. Kruusmaa (Coordinator), **S. Srirama** (Co-Principle Investigator), A. Aabloo, M. Dumas, I. Fridolin, W. Jeltsch, P. Laud, H. Lipmaa, M. Min, J. Raik, V. Skachek, R. Zafra, M. Tõnso, D. Unruh, T. Uustalu, J. Vilo. Estonian Centre of Excellence in ICT Research (EXCITE). European Regional Development Fund. Sep 2016 – Mar 2023. Total budget: 4,451,879.26 EUR. <https://www.excite.it.ee/team>
3. **S. Srirama** (Principle Investigator). IoT and Smart Solutions Laboratory. Telia (the biggest telecommunications provider in Baltics). Provided grant and devices worth over 100,000 EUR, in 2016. In addition, providing 8,000 EUR every year to support a PhD student.
4. **S. Srirama** (Principle Investigator). Mobile and Cloud Computing Laboratory: From Exploiting Cloud in Science to Enabling Internet of Things. Estonian Research Council. Jan 2014 – Dec 2016. Grant amount: 176,400 EUR.
5. P. Kungas (PI), **S. Srirama**. Open language technology cloud infrastructure for enrichment of unstructured open data. Jan 2015 – Dec 2016. Ministry of Education and Research, Estonia. Grant amount: 63,000 EUR.
6. **S. Srirama** (Principle Investigator). Mobile and resource-intensive applications on Hybrid Clouds: Architecture and Frameworks. Jan 2012 – Dec 2013. Estonian Science Foundation. Grant amount: 31,200 EUR.
7. **S. Srirama** (Principle Investigator). Received teaching/research support grant worth 9,000 \$, 10,700 \$, 17,700 \$, 18,400 \$, 8,000 \$ of computing power on Amazon's servers from 2011 – 2016, respectively.
8. J. Vilo (PI), **S. Srirama**, ... Modern scientific computing methods, platforms and applications. Jan 2012 – Dec 2014. Ministry of Education and Research, Estonia. Grant amount: 306,870 EUR.
9. E. Vainikko (PI), **S. Srirama**. Modern parallel application development for advanced distributed computing. Jan 2012 – Dec 2015. Estonian Science Foundation. Grant amount: 33,984 EUR.
10. **S. Srirama** (Principle Investigator). Mobile Cloud Computing Laboratory. 26 Oct 2012 – 20 Nov 2012. EITSA tigrisulikool. Grant amount: 6,500.00 EUR.
11. P. Mohagheghi, ..., **S. Srirama** (UTR – Principle Investigator), ... REuse and Migration of legacy applications to Interoperable Cloud Services (REMICS) – Enlarged EU. European Union (EU) FP7. Sep 2011 – Aug 2013. UTR share: 273,600 EUR, Total budget: 1,074,352 EUR.
12. **S. Srirama** (Principle Investigator). Mobile Application Development Course Infrastructure. 15 Oct 2011 – 30 Nov 2011. EITSA tigrisulikool. Grant amount: 9,894 EUR.
13. **S. Srirama** (Principle Investigator). Mobile Cloud Computing Laboratory – phase 2. 20 Aug 2011 – 20 Nov 2011. EITSA tigrisulikool. Grant amount: 6,300.00 EUR.
14. **S. Srirama** (Principle Investigator). Mobile Cloud Computing Laboratory. 25 Oct 2010 – 10 Dec 2010. EITSA tigrisulikool. Grant amount: 5,862.74 EUR.
15. H. Kirchsteiger, ..., **S. Srirama** (UTR – Principle Investigator), ... ROBO M.D. Mar

2010 – Oct 2011. EU funded program INTERREG. UTR share: 65,636 EUR, Total budget: 445,996 EUR.

16. **S. Srirama** (Principle Investigator). Scientific Computing on the Cloud. 15 Oct 2009 – 19 Oct 2012. MOBILITAS Postdoctoral Research Grant, European Social Fund. Grant amount: 100,375.74 EUR.
17. I was funded by Ultra High-Speed Mobile Information and Communication (UMIC) research cluster (<http://www.unic.rwth-aachen.de/>) at RWTH Aachen University, during November 2007 – June 2008.
18. My doctoral research's experimental costs were funded by Ericsson Research, Aachen, during November 2004 – March 2008.
19. Received PhD scholarship from German Research Foundation (DFG) as part of the Graduate School "Software for Mobile Communication Systems" at RWTH Aachen University during November 2004 – October 2007.

## Appendix B: List of Publications

### Papers in Refereed International Scientific Journals:

1. M. Adhikari, T. Amgoth, S. N. Srirama: A Survey on Scheduling Strategies for Workflows in Cloud Environment and Emerging Trends, ACM Computing Surveys, ISSN: 0360-0300, 2019. ACM Press, New York, USA. (Accepted for publication)
2. D. G. Roy, A. Mukherjee, D. De, S. N. Srirama: Practical Implementation of Femtolet Based Peer-to-Peer Network, Wireless Personal Communications, ISSN: 0929-6212, 2019. Springer. DOI: 10.1007/s11277-019-06534-4 (In Print)
3. J. Mass, C. Chang, S. N. Srirama: Edge Process Management: A Case Study on Adaptive Task Scheduling in Mobile Internet of Things, Internet of Things Journal, ISSN: 2542-6605, 6:100051, 17 pages, 2019. Elsevier. DOI: <https://doi.org/10.1016/j.iot.2019.100051>
4. M. Adhikari, S. N. Srirama: Multi-Objective Accelerated Particle Swarm Optimization with a Container-based Scheduling for Internet-of-Things in Cloud Environment, Journal of Network and Computer Applications, ISSN: 1084-8045, 137:35-61, 2019. Elsevier. DOI: <https://doi.org/10.1016/j.jnca.2019.04.003>
5. B. Zhou, S. N. Srirama, R. Buyya: An Auction-based Incentive Mechanism for Heterogeneous Mobile Clouds, Journal of Systems and Software, ISSN: 0164-1212, 152:151-164, 2019. Elsevier. DOI: 10.1016/j.jss.2019.03.003
6. C. H. Foh, S. N. Srirama, J. Wu, B. Kantarci, P. Chatzimisios, E. Benkhelifa: Guest Editors' Introduction: Special Section on Mobile Cloud Computing, IEEE Transactions on Cloud Computing, ISSN: 2168-7161, 7(2):298-300, 2019. IEEE.
7. Luis M. Vaquero, Felix Cuadrado, Yehia Elkhatib, Jorge Bernal-Bernabe, Satish N. Srirama, Mohamed Faten Zhani: Research Challenges in Nextgen Service Orchestration, Future Generation Computer Systems - Journal, ISSN: 0167-739X, 90:20-38, 2019. Elsevier press. DOI: 10.1016/j.future.2018.07.039
8. Rajkumar Buyya, Satish Narayana Srirama, Giuliano Casale, Rodrigo Calheiros, Yogesh Simmhan, Blesson Varghese, Erol Gelenbe, Bahman Javadi, Luis Miguel Vaquero, Marco A. S. Netto, Adel Nadjaran Toosi, Maria Alejandra Rodriguez, Ignacio M. Llorente, Sabrina De Capitani di Vimercati, Pierangela Samarati, Dejan Milojicic, Carlos Varela, Rami Bahsoon, Marcos Dias de Assuncao, Omer Rana, Wanlei Zhou, Hai Jin, Wolfgang Gentsch, Albert Zomaya, Haiying Shen: A



- Manifesto for Future Generation Cloud Computing: Research Directions for the Next Decade, *ACM Computing Surveys*, ISSN 0360-0300, 51(5):105, 38 pages, 2019. ACM Press, New York, USA. DOI: <https://doi.org/10.1145/3241737>
9. Gaurav Somani, Xinghui Zhao, Satish Narayana Srirama, Rajkumar Buyya: Editorial: Integration of Cloud, Internet of Things and Big Data Analytics, *Software: Practice and Experience*, ISSN: 1097-024X, 49(4):561-564, 2019. Wiley. DOI: <https://doi.org/10.1002/spe.2664>
  10. R. Mahmud, S. N. Srirama, R. Kotagiri, R. Buyya: Quality of Experience (QoE)-aware Placement of Applications in Fog Computing Environments, *Journal of Parallel and Distributed Computing*, ISSN: 0743-7315, 132:190-203, 2019. Elsevier. DOI: [10.1016/j.jpdc.2018.03.004](https://doi.org/10.1016/j.jpdc.2018.03.004)
  11. J. Viil, S. N. Srirama: Framework for Automated Partitioning and Execution of Scientific Workflows in the Cloud, *The Journal of Supercomputing*, ISSN: 0920-8542, 74(6):2656–2683, 2018. Springer. DOI: [10.1007/s11227-018-2296-7](https://doi.org/10.1007/s11227-018-2296-7)
  12. M. Liyanage, C. Chang, S. N. Srirama: Adaptive mobile Web server framework for Mist computing in the Internet of Things, *International Journal of Pervasive Computing and Communications*, ISSN: 1742-7371, 14(3/4):247-267, 2018. Emerald Group Publishing Limited. DOI: <https://doi.org/10.1108/IJPC-C-D-18-00023>
  13. S. N. Srirama, A. Ostovar: Optimal Cloud Resource Provisioning for Auto-scaling Enterprise Applications, *International Journal of Cloud Computing*, ISSN: 2043-9997, 7(2):129-162, 2018. Inderscience.
  14. M. Liyanage, C. Chang, S. N. Srirama, S. Loke: Indoor people density sensing using Wi-Fi and channel state information, *Advances in Modelling and Analysis B*, ISSN: 1240-4543, 61(1):37-47, 2018. IIETA.
  15. Anton Ruzanov, Meeri Lembinen, Pelle Jakovits, Satish N. Srirama, Iuliia V. Voroshylova, M. Natália D.S. Cordeiro, Carlos M. Pereira, Jan Rossmeisl, Vladislav B. Ivanistsev: On the thickness of the double layer in ionic liquids, *Physical Chemistry Chemical Physics*, ISSN: 1463-9084, 20(15):10275-10285, 2018. Royal Society of Chemistry. DOI: [10.1039/C7CP07939G](https://doi.org/10.1039/C7CP07939G)
  16. C. Chang, S. N. Srirama, R. Buyya: Indie Fog: An Efficient Fog-Computing Infrastructure for the Internet of Things, *IEEE Computer*, ISSN: 0018-9162, 50(9):92-98, 2017. IEEE. DOI: [10.1109/MC.2017.3571049](https://doi.org/10.1109/MC.2017.3571049)
  17. B. Zhou, A. V. Dastjerdi, R. N. Calheiros, S. N. Srirama, R. Buyya: mCloud: A Context-aware Offloading Framework for Heterogeneous Mobile Cloud, *IEEE Transactions on Services Computing*, ISSN: 1939-1374, 10(5):797-810, 2017. IEEE. DOI: [10.1109/TSC.2015.2511002](https://doi.org/10.1109/TSC.2015.2511002)
  18. S. Soo, C. Chang, S. Loke, S. N. Srirama: Proactive Mobile Fog Computing using Work Stealing: Data Processing at the Edge, *International Journal of Mobile Computing and Multimedia Communications (IJMCMC)*, ISSN: 1937-9412, 8(4):1-19, 2017. IGI Global.
  19. P. Jakovits, S. N. Srirama: Dynamic algorithm modeling application for comparing distributed computing frameworks, *Special Issue: Cloud Computing for Scientific and Business Needs*, *CSI Transactions on ICT*, ISSN: 2277-9078, 5(4):341-359, 2017. Springer. DOI: [10.1007/s40012-017-0167-7](https://doi.org/10.1007/s40012-017-0167-7)
  20. S. N. Srirama: Mobile Web and Cloud Services Enabling Internet of Things, *Special Issue ICAC 2016 of CSIT*, *CSI Transactions on ICT*, ISSN: 2277-9078, 5(1):109-117, 2017. Springer. DOI: [10.1007/s40012-016-0139-3](https://doi.org/10.1007/s40012-016-0139-3)
  21. M. Liyanage, C. Chang, S. N. Srirama: Lightweight Mobile Web Service Provisioning

- for the Internet of Things Mediation, *International Journal of UbiComp (IJU)*, ISSN: 0360-0300, 8(1):17-34, 2017. AIRCC. DOI: 10.5121/iju.2017.8102
22. C. Chang, S. N. Srirama, R. Buyya: Mobile Cloud Business Process Management System for the Internet of Things: A Survey, *ACM Computing Surveys (CSUR)*, ISSN: 0360-0300, 49(4):Article 70, 2016. ACM. DOI: <http://dx.doi.org/10.1145/3012000>
  23. C. Chang, S. N. Srirama, J. Mass: Adaptive Mobile Cloud Workflow Management System for Service Discovery in Proximity-Based Internet of Things, *International Journal of Services Computing (IJSC)*, ISSN: 2330-4472, 3(1):44-56, 2015. The Services Society (SS).
  24. V. Šor, S. N. Srirama, N. Salnikov-Tarnovski: Memory Leak Detection in Plumb, *Software: Practice and Experience*, ISSN: 1097-024X, 45(10):1307-1330, 2015. Wiley. DOI: 10.1002/spe.2275
  25. H. Flores, P. Hui, S. Tarkoma, Y. Li, S. N. Srirama, R. Buyya: Mobile Code Offloading: From Concept to Practice and Beyond, *IEEE Communications Magazine*, ISSN: 0163-6804, 53(3):80-88, 2015. IEEE. DOI:10.1109/MCOM.2015.7060486
  26. C. Chang, S. N. Srirama, S. Ling: Mobile Social Network in Proximity: Taxonomy, Approaches and Open Challenges, *International Journal of Pervasive Computing and Communications*, ISSN: 1742-7371, 11(1):77-101, 2015. Emerald Group Publishing Limited. DOI:10.1108/IJPC-03-2014-0019
  27. V. Šor, S. N. Srirama: Memory Leak Detection in Java: Taxonomy and Classification of Approaches, *Journal of Systems and Software*, ISSN: 0164-1212, 96(1):139-151, 2014. Elsevier. DOI: 10.1016/j.jss.2014.06.005.
  28. I. Warren, A. Meads, S. N. Srirama, T. Weerasinghe, C. Paniagua: Push Notification Mechanisms for Pervasive Smartphone Applications, *IEEE Pervasive Computing*, ISSN: 1536-1268, 13(2):61-71, 2014. IEEE. DOI:10.1109/MPRV.2014.34.
  29. C. Chang, S. N. Srirama, S. Ling: Towards an Adaptive Mediation Framework for Mobile Social Network in Proximity, *Pervasive and Mobile Computing Journal*, MUCS Fast track, ISSN: 1574-1192, 12:179-196, 2014. Elsevier. DOI: 10.1016/j.pmcj.2013.02.004.
  30. B. Deb, S. N. Srirama: Scalability of Parallel Genetic Algorithm for Two-mode Clustering, *International Journal of Computer Applications*, ISSN: 0975-8887, 94(14):23-26, 2014. Published by Foundation of Computer Science. DOI: 10.5120/16411-5829.
  31. H. Flores, S. N. Srirama: Mobile Cloud Middleware, *Journal of Systems and Software*, ISSN: 0164-1212, 92(1):82-94, 2014. Elsevier. DOI: 10.1016/j.jss.2013.09.012.
  32. B. Deb, S. N. Srirama: Social Networks for eHealth Solutions on Cloud, *Frontiers in Genetics*, ISSN: 1664-8021, 4(171), 2013. DOI: 10.3389/fgene.2013.00171.
  33. B. Deb, S. N. Srirama: Parallel K-Means Clustering for Gene Expression Data on SNOW, *International Journal of Computer Applications*, ISSN: 0975-8887, 71(24):26-30, 2013. Published by Foundation of Computer Science, New York, USA, ISBN: 973-93-80875-54-1. DOI:10.5120/12691-9486.
  34. C. Chang, S. N. Srirama, S. Krishnaswamy, S. Ling: Proactive Web Service Discovery for Mobile Social Network in Proximity, *Journal of Next Generation Information Technology (JNIT)*, ISSN: 2092-8637, 4(2):100-112, 2013. Advanced Institute of Convergence IT. DOI:10.4156/jnit.vol4.issue2.10
  35. H. Flores, S. N. Srirama, C. Paniagua: Towards Mobile Cloud Applications:

- Offloading Resource-Intensive Tasks To Hybrid Clouds, *International Journal of Pervasive Computing and Communications*, ISSN: 1742-7371, 8(4):344-367, 2012. Emerald Group Publishing Limited. DOI: 10.1108/17427371211283029.
36. S. N. Srirama, C. Paniagua, H. Flores: Social Group Formation with Mobile Cloud Services, *Service Oriented Computing and Applications Journal*, ISSN: 1863-2386, 6(4):351-362, 2012. Springer. DOI: 10.1007/s11761-012-0111-5.
  37. S. N. Srirama, P. Jakovits, E. Vainikko: Adapting Scientific Computing Problems to Clouds using MapReduce, *Future Generation Computer Systems Journal*, 28(1):184-192, 2012. Elsevier press. DOI 10.1016/j.future.2011.05.025.
  38. S. N. Srirama: MWSMF: A Mediation Framework for Mobile Hosts and Enterprise on Cloud, *International Journal of Pervasive Computing and Communications*, ISSN: 1742-7371, 7(4):316-338, 2011. Emerald Group Publishing Limited.
  39. S. N. Srirama, O. Batrashev, P. Jakovits, E. Vainikko: Scalability of Parallel Scientific Applications on the Cloud, *Scientific Programming Journal, Special Issue on Science-driven Cloud Computing*, 19(2-3):91-105, 2011. IOS Press. DOI 10.3233/SPR-2011-0320.
  40. S. N. Srirama, V. Shor, E. Vainikko, M. Jarke: Supporting Mobile Web Service Provisioning with Cloud Computing, *International Journal On Advances in Internet Technology*, issn 1942-2652, 3(3&4): 261-273, 2010.
  41. M. A. Chatti, S. N. Srirama, I. Ivanova, M. Jarke: The MobileHost CoLearn System: Mobile Social Software for Collaborative Learning, *International Journal of Mobile Learning and Organisation (IJMLO)*, Special Issue on: "Developing Themes in Mobile Learning", 4(1), (2010): 15-38. Inderscience Publishers.
  42. S. N. Srirama, M. Jarke: Mobile Hosts in Enterprise Service Integration, *International Journal of Web Engineering and Technology (IJWET)*, 5(2) (2009): 187-213. Inderscience Publishers.
  43. S. N. Srirama, M. Jarke, W. Prinz: Security Analysis of Mobile Web Service Provisioning, *International Journal for Internet Technology and Secured Transactions (IJITST)*, 1(1/2) (2007): 151-171. Inderscience Publishers.

#### **Books:**

44. Fog and Edge Computing: Principles and Paradigms, Editors: R. Buyya and S.N. Srirama, Wiley, 2019. ISBN: 978-1-119-52498-4

#### **Theses:**

45. S. N. Srirama: Mobile Hosts in Enterprise Service Integration, PhD thesis, RWTH Aachen University, 2008, 263 pp.

#### **Book Chapters:**

46. C. Chang, S. N. Srirama, R. Buyya: Internet of Things (IoT) and New Computing Paradigms, Book title: Fog and Edge Computing: Principles and Paradigms, Editors: R. Buyya and S.N. Srirama, Wiley, 2019, pp. 3-23.
47. C. Chang, A. Hadachi, S. N. Srirama, M. Min: Mobile Big Data: Foundations, State-of-the-Art, and Future Directions, Book title: Encyclopedia of Big Data Technologies, Editors: S. Sakr, A. Zomaya, Springer, 2018. DOI: [https://doi.org/10.1007/978-3-319-63962-8\\_46-1](https://doi.org/10.1007/978-3-319-63962-8_46-1)
48. S. Soo, C. Chang, S. Loke, S. N. Srirama: Dynamic Fog Computing: Practical Processing at Mobile Edge Devices, Book title: Algorithms, Methods, and

- Applications in Mobile Computing and Communications, Editors: Agustinus Borgy Waluyo, IGI Global, 2018. (In press)
49. S. N. Srirama: Mobile Web and Cloud Services, Book title: Advanced Web Services, Editors: Athman Bouguettaya, Quan Z. Sheng, Florian Daniel, Springer, 2013, pp. 501-525.
  50. S. N. Srirama, M. Jarke: Mobile Web Service Provisioning in Cellular Enterprise, Book title: Mobile Web 2.0: Developing and Delivering Services to Mobile Phones, Editors: Syed A. Ahson, Mohammad Ilyas, ISBN: 9781439800829, CRC Press, December, 2010.

#### **Papers in Refereed International Conferences:**

51. H. Anwar, D. Pfahl, S. N. Srirama: Evaluating the impact of code smell refactoring on the energy consumption of Android applications, The 45th Euromicro Conference on Software Engineering and Advanced Applications (SEAA 2019), Kallithea, Chalkidiki, Greece, August 28-30, 2019. IEEE. (Accepted for publication)
52. T. M. Mir, S. N. Srirama: Game-theoretic Incentive Model for Improving Mobile Code Offloading Adaptability, 10th IEEE International Conference on Cloud Computing Technology and Science (CloudCom 2018), Nicosia, Cyprus, December 10-13, 2018, pp. 153-158. IEEE.
53. C. Chang, S. N. Srirama: Providing Context as a Service using Service-Oriented Mobile Indie Fog and Opportunistic Computing, 12th European Conference on Software Architecture (ECSA 2018), Madrid, Spain, September 24-28, 2018, pp. 219-235. Springer.
54. H. Anwar, D. Pfahl, S. N. Srirama: An Investigation into the Energy Consumption of HTTP POST Request Methods for Android App Development, 13th International Conference on Software Technologies (ICSOFT 2018), Porto, Portugal, July 26-28, 2018. SCITEPRESS.
55. S. N. Srirama, J. Mass, M. Koppel, A. Sepp, S. Avanashvili: Smartphone-based Real-time Sensing and Actuation with the Cumulocity Internet of Things Platform, International Conference on Fog Computing and Internet-of-Things (ICFCIoT 2017), Keshav Memorial Institute of Technology (KMIT), Narayanaguda, Hyderabad, India, December 21-22, 2017.
56. C. Chang, M. Liyanage, S. Soo, S. N. Srirama: Fog Computing as a Resource-Aware Enhancement for Vicinal Mobile Mesh Social Networking, The 31-st IEEE International Conference on Advanced Information Networking and Applications (AINA-2017), Taipei, Taiwan, March 27-29, 2017, pp. 894-901. IEEE.
57. M. Liyanage, C. Chang, S. N. Srirama: Energy-Efficient Mobile Data Acquisition using Opportunistic Internet of Things Gateway Services, The 9th IEEE International Conference on Internet of Things (iThings2016), Chengdu, Sichuan, China, December 16-19, 2016, pp. 217-222. IEEE.
58. J. Mass, C. Chang, S. N. Srirama: WiseWare: A Device-to-Device-based Business Process Management System for Industrial Internet of Things, The 9th IEEE International Conference on Internet of Things (iThings2016), Chengdu, Sichuan, China, December 16-19, 2016, pp. 269-275. IEEE.
59. S. Soo, C. Chang, S. N. Srirama: Proactive Service Discovery in Fog Computing using Mobile Ad Hoc Social Network in Proximity, The 9th IEEE International Conference on Cyber, Physical, and Social Computing (CPSCom 2016), Chengdu, Sichuan, China, December 16-19, 2016, pp. 561-566. IEEE.

60. M. Liyanage, C. Chang, S. N. Srirama: mePaaS: Mobile-Embedded Platform as a Service for Distributing Fog Computing to Edge Nodes, The 17th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT-16), Guangzhou, China, December 16-18, 2016, pp. 73-80. IEEE. **(Won Best Student Paper Award)**
61. M. Liyanage, C. Chang, S. N. Srirama: An Energy-Aware Forwarding Protocol for Multimedia Opportunistic Networks, 13th Annual International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous 2016), Hiroshima, Japan, November 28 - December 1, 2016, pp. 274-275. ACM.
62. S. N. Srirama, T. Iurii, J. Viil: Dynamic Deployment and Auto-scaling Enterprise Applications on the Heterogeneous Cloud, 9th IEEE International Conference on Cloud Computing (CLOUD 2016), June 27- July 2, 2016, pp. 927-932. IEEE.
63. J. Mass, C. Chang, S. N. Srirama: Workflow Model Distribution or Code Distribution? Ideal Approach for Service Composition of the Internet of Things, 13th IEEE International Conference on Services Computing (SCC 2016), June 27- July 2, 2016, pp. 649-656. IEEE.
64. B. Deb, I. Mukherjee, S. N. Srirama, E. Vainikko: A Semantic Followee Recommender in Twitter using Topicmodel and Kalman Filter, 12th International Conference on Control and Automation (ICCA 2016), June 1-3, 2016, pp. 649-656. IEEE.
65. C. Chang, S. N. Srirama, M. Liyanage: A Service-Oriented Mobile Cloud Middleware Framework for Provisioning Mobile Sensing as a Service, The 21st IEEE International Conference on Parallel and Distributed Systems (ICPADS 2015), December 14-17, 2015, pp. 124-131. IEEE.
66. C. Chang, S. N. Srirama, J. Mass: A Middleware for Discovering Proximity-based Service-Oriented Industrial Internet of Things, 12th IEEE International Conference on Services Computing (SCC 2015), June 27 - July 2, 2015, pp. 130-137. IEEE.
67. C. Chang, S. Loke, H. Dong, F. Salim, S. N. Srirama, M. Liyanage, S. Ling: An Energy-Efficient Inter-organizational Wireless Sensor Data Collection Framework, The IEEE 22nd International Conference on Web Services (ICWS 2015), June 27 - July 2, 2015, pp. 639-646. IEEE.
68. B. Zhou, A. Dastjerdi, R. Calheiros, S. N. Srirama, R. Buyya: A Context Sensitive Offloading Scheme for Mobile Cloud Computing Service, 8th IEEE International Conference on Cloud Computing (CLOUD 2015), June 27 - July 2, 2015, pp. 869-876. IEEE.
69. M. Liyanage, C. Chang, S. N. Srirama: Lightweight Mobile Web Service Provisioning for Sensor Mediation, 4th International Conference on Mobile Services (MS 2015), June 27 - July 2, 2015, pp. 57-64. IEEE. **(Won Best Paper Award)**
70. S. N. Srirama, A. Ostovar: Optimal Resource Provisioning for Scaling Enterprise Applications on the Cloud, The 6th IEEE International Conference on Cloud Computing Technology and Science (CloudCom-2014), December 15-18, 2014, pp. 262-271. IEEE.
71. C. Chang, S. N. Srirama, S. Ling: SPiCa: A Social Private Cloud Computing Application Framework, The 13th International Conference on Mobile and Ubiquitous Multimedia (MUM 2014), November 25-28, 2014, pp. 30-39. ACM.
72. J. Mass, S. N. Srirama, H. Flores, C. Chang: Proximal and Social-aware Device-to-Device Communication via Audio Detection on Cloud, The 13th International Conference on Mobile and Ubiquitous Multimedia (MUM 2014), November 25-28,

- 2014, pp. 143-150. ACM.
73. S. N. Srirama, M. Liyanage: TCP Hole Punching Approach to Address Devices in Mobile Networks, The 2nd International Conference on Future Internet of Things and Cloud (FiCloud-2014), August 27-29, 2014, pp. 90-97. IEEE.
  74. S. N. Srirama, J. Viil: Migrating Scientific Workflows to the Cloud: Through Graph-partitioning, Scheduling and Peer-to-Peer Data Sharing, 16th IEEE International Conference on High Performance Computing and Communications (HPCC 2014) workshops, August 20-22, 2014, pp. 1137-1144. IEEE.
  75. P. Jakovits, S. N. Srirama: Evaluating MapReduce Frameworks for Iterative Scientific Computing Applications, The 2014 (12th) International Conference on High Performance Computing & Simulation (HPCS 2014), July 21-25, 2014, pp. 226-233. IEEE.
  76. I. Kromonov, P. Jakovits, S. N. Srirama: NEWT - A resilient BSP framework for iterative algorithms on Hadoop YARN, The 2014 (12th) International Conference on High Performance Computing & Simulation (HPCS 2014), July 21-25, 2014, pp. 251-259. IEEE.
  77. H. Flores, S. N. Srirama, R. Buyya: Computational Offloading or Data Binding? Bridging the Cloud Infrastructure to the Proximity of the Mobile User, 2nd IEEE International Conference on Mobile Cloud Computing, Services, and Engineering (Mobile Cloud 2014), April 8-11, 2014, pp. 10-18. IEEE.
  78. I. Kromonov, P. Jakovits, S. N. Srirama: NEWT - A fault tolerant BSP framework on Hadoop YARN, 6th IEEE/ACM International Conference on Utility and Cloud Computing (UCC 2013), December 9-12, 2013, pp. 309-310. IEEE.
  79. V. Šor, T. Treier, S. N. Srirama: Improving statistical approach for memory leak detection using machine learning, 29th IEEE International Conference on Software Maintenance (ICSM 2013), September 22-28, 2013, pp. 544-547. IEEE.
  80. P. Jakovits, S. N. Srirama: Clustering on the Cloud: Reducing CLARA to MapReduce, 2nd Nordic Symposium on Cloud Computing & Internet Technologies (NordiCloud 2013), September 02-03, 2013, pp. 64-71. ACM.
  81. S. N. Srirama, V. Ivanistsev, P. Jakovits, C. Willmore: Direct Migration of Scientific Computing Experiments to the Cloud, The 2013 (11th) International Conference on High Performance Computing & Simulation (HPCS 2013), July 01-05, 2013, pp. 27-34. IEEE. **(Nominee for the Outstanding Paper Award)**
  82. P. Jakovits, S. N. Srirama, I. Kromonov: Viability of the Bulk Synchronous Parallel Model for Science on Cloud, The 2013 (11th) International Conference on High Performance Computing & Simulation (HPCS 2013), July 01-05, 2013, pp. 41-48. IEEE.
  83. S. N. Srirama, C. Paniagua: Mobile Web Service Provisioning and Discovery in Android Days, The 2013 IEEE International Conference on Mobile Services (MS 2013), June 27 - July 02, 2013, pp. 15-22. IEEE.
  84. H. Flores, S. N. Srirama: Mobile Code Offloading: Should it be a Local Decision or Global Inference?, The 11th International Conference on Mobile Systems, Applications and Services (MobiSys 2013), June 25-28, 2013, pp. 539. ACM.
  85. H. Flores, S. N. Srirama: Adaptive Code Offloading and Resource-intensive Task Delegation for Mobile Cloud Applications, The 11th International Conference on Mobile Systems, Applications and Services (MobiSys 2013), June 25-28, 2013. ACM.
  86. P. Jakovits, S. N. Srirama: Adapting Scientific Applications to Cloud by Using Distributed Computing Frameworks, 13th IEEE/ACM International Symposium on

- Cluster, Cloud and Grid Computing (CCGrid-2013), May 13-16, 2013, pp. 164-167. IEEE/ACM.
87. C. Chang, S. N. Srirama, S. Ling: An Adaptive Mediation Framework for Mobile P2P Social Content Sharing, 10th International Conference on Service Oriented Computing (ICSOC 2012), November 12-16, 2012, pp. 374-388. Springer LNCS.
  88. V. Shor, S. N. Srirama: Evaluation of embeddable graph manipulation libraries in memory constrained environments, 2012 Research in Applied Computation Symposium (RACS 2012), October 23-26, 2012, pp. 269-275. ACM.
  89. H. Flores, S. N. Srirama: Dynamic Re-configuration of Mobile Cloud Middleware based on Traffic, The Ninth IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS 2012), October 8-11, 2012, pp. 475. IEEE.
  90. C. Paniagua, H. Flores, S. N. Srirama: Mobile Sensor Data Classification for Human Activity Recognition using MapReduce on Cloud, The 9th International Conference on Mobile Web Information Systems (MobiWIS 2012), August 27-29, 2012, v. 10 of Procedia Computer Science, pp. 585-592. Elsevier.
  91. M. Vasar, S. N. Srirama, M. Dumas: Framework for Monitoring and Testing Web Application Scalability on the Cloud, Nordic Symposium on Cloud Computing & Internet Technologies (NORDICLOUD 2012), Co-located event at Joint 10th Working IEEE/IFIP Conference on Software Architecture & 6th European Conference on Software Architecture (WICSA/ECSA 2012), August 20-24, 2012, pp. 53-60. ACM.
  92. P. Jakovits, S. N. Srirama, I. Kromonov: Stratus: A distributed computing framework for scientific simulations on the cloud, The Fifth International Symposium on Advances Of High Performance Computing And Networking (AHPCN-2012), In conjunction with The 14th IEEE International Conference on High Performance Computing and Communications (HPCC-2012), 25-27 June, 2012, pp. 1053-1059. IEEE.
  93. P. Jakovits, S. N. Srirama: Stratus: Scientific simulations in the cloud, The 12th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing, May 13-16, 2012.
  94. H. Flores, S. N. Srirama, C. Paniagua: A Generic Middleware Framework for Handling Process Intensive Hybrid Cloud Services from Mobiles, The 9th International Conference on Advances in Mobile Computing & Multimedia (MoMM-2011), December 5-7, 2011, pp. 87-95. ACM.
  95. C. Paniagua, S. N. Srirama, H. Flores, M. Nomme: Bakabs: Managing Load of Cloud-based Web Applications from Mobiles, The 13th International Conference on Information Integration and Web-based Applications & Services (iiWAS-2011), December 5-7, 2011, pp. 489-495. ACM.
  96. P. Jakovits, I. Kromonov, S. N. Srirama: Monte Carlo linear system solver using MapReduce, 4th IEEE/ACM International Conference on Utility and Cloud Computing (UCC 2011), December 5-7, 2011. (Accepted for publication)
  97. S. Kirsimäe, U. Norbistrath, G. Singer, S. N. Srirama, A. Lind: Extending Friend-to-Friend Computing to Mobile Environments, In Proc. of The First International Conference on Mobile Services, Resources, and Users (MOBILITY 2011), October 23-29, 2011, pp. 75-80. ISBN: 978-1-61208-164-9
  98. V. Shor, N. Salnikov-Tarnovski, S. N. Srirama: Automated statistical approach for memory leak detection: case studies, In Proc. of First International Symposium on Secure Virtual Infrastructures (DOA-SVI 2011), October 17-19, 2011, pp. 633-640.

LNCS 7045, Springer.

99. S. N. Srirama, C. Paniagua, H. Flores: CroudSTag: Social Group Formation with Facial Recognition and Mobile Cloud Services, The 8th International Conference on Mobile Web Information Systems (MobiWIS 2011), September 19-21, 2011, v. 5 of Procedia Computer Science, pp. 633-640. Elsevier. doi: 10.1016/j.procs.2011.07.082.
100. S. N. Srirama, H. Flores, C. Paniagua: Zompopo: Mobile Calendar Prediction based on Human Activities Recognition using the Accelerometer and Cloud Services, 5th International Conference on Next Generation Mobile Applications, Services and Technologies (NGMAST 2011), September 14-16, 2011, pp. 63-69. IEEE.
101. P. Jakovits, S. N. Srirama, E. Vainikko: MapReduce for Scientific Computing, The 14th International Parallel Computing conference (ParCo 2011), August 30-September 2, 2011. IOS Press. (In print)
102. O. Batrashev, S. N. Srirama, E. Vainikko: Benchmarking DOUG on the Cloud, The 2011 International Conference on High Performance Computing & Simulation (HPCS 2011), July 4-8, 2011, pp. 677-685. IEEE.
103. V. Shor, S. N. Srirama: A Statistical Approach For Identifying Memory Leaks In Cloud Applications, First International Conference on Cloud Computing and Services Science (CLOSER 2011), May 7-9, 2011, pp. 623-628. SciTePress. ISBN: 978-989-8425-52-2
104. S. N. Srirama, P. Jakovits, E. Vainikko: Adapting Scientific Computing Problems to Clouds using MapReduce, International Conference on Utility and Cloud Computing (UCC 2010) in conjunction with the International Conference on Advanced Computing (ICoAC 2010), December 14-16, 2010.
105. G. Singer, I. Livenson, M. Dumas, S. N. Srirama, U. Norbistrath: Towards a model for cloud computing cost estimation with reserved resources, In Proc. of 2nd International ICST Conference on Cloud Computing, CloudComp 2010, October 26-28, 2010.
106. S. N. Srirama, E. Vainikko, M. Jarke: Scaling Mobile Enterprise Through Cloud Computing, 7th ACM International Conference on Pervasive Services (ICPS 2010), July 13-16, 2010, pp. 69-72. ACM Press.
107. S. N. Srirama, O. Batrashev, E. Vainikko: SciCloud: Scientific Computing on the Cloud, 10th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGrid 2010), May 17-20, 2010, pp. 579. IEEE Computer Society.
108. S. N. Srirama, E. Vainikko, V. Shor, M. Jarke: Scalable Mobile Web Services Mediation Framework, 5th International Conference on Internet and Web Applications and Services (ICIW 2010), May 9-15, 2010, pp. 315-320. IEEE Computer Society. (Won **Best Paper Award**)
109. S. N. Srirama, M. Jarke: Mobile Enterprise - A Case Study of Enterprise Service Integration, 3rd International Conference and Exhibition on Next Generation Mobile Applications, Services and Technologies (NGMAST 2009), September 15-18, 2009, pp. 101-107. IEEE Computer Society.
110. Y. Cao, M. Jarke, R. Klamma, O. Mendoza, S. N. Srirama: Mobile Access to MPEG-7 Based Multimedia Services, 10th International Conference on Mobile Data Management Systems, Services and middleware (MDM 2009), May 18-20, 2009, pp. 102-111. IEEE Computer Society.
111. S. N. Srirama, M. Jarke, W. Prinz, H. Zhu: Scalable Mobile Web Service Discovery in Peer to Peer Networks, 3rd International Conference on Internet and Web Applications and Services (ICIW 2008), June 8-13, 2008, pp. 668-674. IEEE

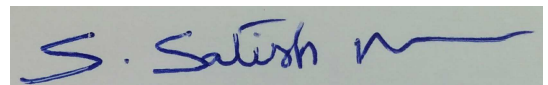


- Computer Society.
112. S. N. Srirama, M. Jarke, W. Prinz: MWSMF: A Mediation Framework Realizing Scalable Mobile Web Service Provisioning, International Conference on MOBILE Wireless MiddleWARE, Operating Systems, and Applications (Mobilware 2008), February 12-15, 2008. ACM Press.
  113. P. Pawar, S. N. Srirama, B. van Beijnum, A. van Halteren: A Comparative Study of Nomadic Mobile Service Provisioning Approaches, International Conference and Exhibition on Next Generation Mobile Applications, Services and Technologies (NGMAST 2007), September 12-14, 2007, pp. 277-286. IEEE Computer Society.
  114. S. N. Srirama, A. Naumenko: Secure Communication and Access Control for Mobile Web Service Provisioning, in the Proceedings of the First International Conference on Security of Information and Networks (SIN 2007), May 8-10, 2007. Trafford Publishing, Canada.
  115. S. N. Srirama, M. Jarke, W. Prinz: A Performance Evaluation of Mobile Web Services Security, 3rd International Conference on Web Information Systems and Technologies (WEBIST 2007), March 3-6, 2007, pp. 386-392. INSTICC Press.
  116. S. N. Srirama, M. Jarke, W. Prinz, K. Pendyala: Security Aware Mobile Web Service Provisioning, Proceedings of International Conference for Internet Technology and Secured Transactions (ICITST-2006), September 11-13, 2006, pp. 48-56. Published by e.Centre for Infonomics, ISBN 0-9546628-2-2. (Won **Innovative Paper Award**)
  117. S. N. Srirama, M. Jarke, W. Prinz: Mobile Web Service Provisioning, Proceedings of the Advanced International Conference on Telecommunications and International Conference on Internet and Web Applications and Services (AICT-ICIW 2006), February 23-25, 2006, pp. 120-125. IEEE Computer Society Press.
  118. S. N. Srirama, M.A.A. Faruque, M.A.S. Munni: Alternatives to Mobile Keypad Design: Improved Text Feed, 6th International Conference on Computer and Information Technology (ICCIT2003), 19-21 December, 2003.

#### **Papers in Refereed International Workshops:**

119. J. Mass, C. Chang, S. N. Srirama: Context-aware Edge Process Management for Mobile Thing-to-Fog Environment, 2nd Context-aware, Autonomous and Smart Architectures International Workshop (CASA) @ 12th European Conference on Software Architecture (ECSA 2018), Madrid, Spain, September 24-28, 2018, Article No. 44. ACM.
120. C. Chang, S. N. Srirama, S. Ling: Trustworthy Service Discovery for Mobile Social Network in Proximity, 11th IEEE Workshop on Managing Ubiquitous Communications and Services (MUCS 2014) @ The 12th IEEE International Conference on Pervasive Computing and Communications (PerCom 2014), March 24-28, 2014. IEEE.
121. H. Flores, S. N. Srirama: Adaptive Code Offloading for Mobile Cloud Applications: Exploiting Fuzzy Sets and Evidence-based Learning, The Fourth ACM Workshop on Mobile Cloud Computing and Services (MCS 2013) @ The 11th International Conference on Mobile Systems, Applications and Services (MobiSys 2013), June 25-28, 2013, pp. 9-16. ACM.
122. H. Flores, S. N. Srirama: Mobile Cloud Messaging Supported by XMPP Primitives, The Fourth ACM Workshop on Mobile Cloud Computing and Services (MCS 2013) @ The 11th International Conference on Mobile Systems, Applications

- and Services (MobiSys 2013), June 25-28, 2013, pp. 17-24. ACM.
123. S. N. Srirama, C. Willmore, V. Ivanistsev, P. Jakovits: Desktop to Cloud Migration of Scientific Experiments, 2nd International Workshop on Cloud Computing and Scientific Applications (CCSA) @ 12th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGrid 2012), May 13-16, 2012.
  124. S. N. Srirama, M. Jarke, W. Prinz: Mobile Web Services Mediation Framework, Middleware for Service Oriented Computing (MW4SOC) Workshop @ 8th International Middleware Conference 2007, November 26-30, 2007. ACM Press.
  125. Y. Cao, R. Klamma, S. N. Srirama, K. Wang: The Mobile Interfaces for Geo-Hypermedia Databases, Proceedings of MOBILE and NETWORKING Technologies for Social Applications (MONET'07), November 29-30, 2007. LNCS, Springer.
  126. S. N. Srirama, M. Jarke, W. Prinz: Mobile Web Service Discovery in Peer to Peer Networks, 5th International Workshop on Ubiquitous Mobile Information and Collaboration Systems (UMICS 2007) @ 19th International Conference on Advanced Information Systems Engineering (CAiSE'07), June 11-12, 2007.
  127. S. N. Srirama: Publishing and Discovery of Mobile Web Services in Peer to Peer Networks, Proceedings of First International Workshop on Mobile Services and Personalized Environments (MSPE'06), November 16-17, 2006, pp. 15-28. Lecture Notes in Informatics, GI.
  128. M. A. Chatti, S. N. Srirama, D. Kensche, Y. Cao: Mobile Web Services for Collaborative Learning, in Proceedings of the 4th International Workshop on Wireless, Mobile and Ubiquitous Technologies in Education (WMUTE 2006), November 16-17, 2006.
  129. Y. Cao, S. N. Srirama, M. A. Chatti, R. Klamma: Mobile Social Software for Cultural Heritage Management, Proceedings of Mobile and Networking Technologies for Social Applications (MONET'06), R. Meersman, Z. Tari, P. Herrero et al. (eds.): On the Move to Meaningful Internet Systems 2006: OTM 2006 Workshops, October 29, 2006, pp. 955-964. LNCS4277, Springer.
  130. S. N. Srirama, M. Jarke, W. Prinz: A Mediation Framework for Mobile Web Service Provisioning, Proceedings of 2006 Middleware for Web Services (MWS 2006) Workshop @ 10th International IEEE EDOC Conference "The Enterprise Computing Conference", October 16, 2006, pp. 14-17. IEEE Computer Society.
  131. S. N. Srirama, M. Jarke, W. Prinz: Mobile Host: A Feasibility Analysis of Mobile Web Service Provisioning, 4th International Workshop on Ubiquitous Mobile Information and Collaboration Systems (UMICS 2006) @ 18th Int. Conference on Advanced Information Systems Engineering (CAiSE'06), June 5-6, 2006.
  132. S. N. Srirama, R. Kakumani, A. Aggarwal, P. Pawar: Effective Testing Principles for the Mobile Data Services Applications, IEEE International Workshop on Software for Wireless Communications and Applications (SOFTWIM 2006) Co-located with @ The First International Conference on Communication Systems Software and Middleware (COMSWARE 2006), January 12, 2006, pp.1-5. IEEE.



(Satish Narayana Srirama)

Date: