

Sridhar Chimalakonda

Curriculum Vitae

Dr. Sridhar Chimalakonda
Assistant Professor

Department of Computer Science & Engineering
Indian Institute of Technology Tirupati, India

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Research Interests ✨ Interdisciplinary Research

- Software Engineering** ➤ I research effective and scalable ways to help developers improve quality of software by qualitatively and quantitatively analyzing a diversified range of software artifacts [such as code, commits, bugs, logs, patterns, designs and so on] in millions of software repositories
➤ Empirical Software Engineering, Software Quality & Software Reuse, Patterns, Software Product Lines, Software Architecture, Requirements Engineering
- Educational Technologies** ➤ Design of technologies to facilitate personalized life long learning for 7.1+ billion learners
➤ Ontologies, Gamification, Personalized Learning, Virtual & Augmented Reality for Story Telling, Virtual Labs, Human Computer Interaction for Usability of Government and Mobile Apps

Distinguished Highlights

- 2019→ Inducted to **ACM India Eminent Speaker Program**
<https://india.acm.org/education/learning/esp/sridhar-chimalakonda>
- 2019→ Social Media Chair, **ACM SIGSOFT**, ACM Special Interest Group on Software Engineering
- 2018→ Associate Editor, Software Quality & Software Reuse, **IEEE Software Blog**
- 2018→ Core Committee, **ACM iSIGCSE**, Special Interest Group on Computer Science Education
Empirical research on the state-of-the-art of computing education in India
- 2015→ Visiting/Guest Faculty for last two years of PhD focusing on **some experiments in teaching**
🏆 ✨ 24 hour hackathon as exam, teaching through seminal and state-of-the-art papers, ✨ 24 months in IIIT Sri City (weekly once)
- 2009→ Domain Expert, Seventh Sectional Committee (SC7) of Joint Technical Committee (JTC1) of the International Organization for Standardization (ISO) - **Software & Systems Engineering** ✨ SC36 - **Information Technology for Learning, Education and Training**
- 2010→ **Impact of PhD thesis** - Co-Editor of two international Software Product Lines standards [ISO/IEC 26551, 26555] and several draft standards [ISO/IEC 26552, 26553, 26554], 18+ publications, open source software at <http://rice.iiit.ac.in>, mobile version on Google Play Store <http://bit.ly/2fLHjhd>, and officially listed in Govt. of Telangana web-sites <http://tslma.nic.in> ✨ <http://srctelangana.com>
- 2016 *Computing Research for Society* - Our work on design of educational technologies for adult literacy transferred to *National Literacy Mission Authority, Government of India*, which instructed 32 State Resource Centers across India to use our approach and technologies
- 2010-2016 Six international [ICSE 2012, 2013, 2014 & ICALT 2012, 2013, 2014] and 20+ national travel grants by Microsoft Research, TCS, ACM during PhD ✨ student volunteer at most places
- 2011 *Special Invitee [while being a Research Scholar]*, Steering Committee, Education, Planning Commission of India, now **NITI AYOOG, Government of India**
- 2010-2015 *TCS Doctoral Research Fellowship* ✨ Merit-based scholarship in 10th, 12th, B.Tech and MS

Education

- Feb 2017 **PhD in Computer Science & Engineering**
International Institute of Information Technology - Hyderabad, India

- Title** **A Software Engineering Approach for Design of Educational Technologies**
Advisor: Prof. Kesav V. Nori
- Challenge** *How to facilitate the design and customization of software systems [educational technologies] for scale & variety? [287 million learners, 22 Indian Languages, varied instructional designs]*
- Our Approach** *This thesis explored the idea of applying software engineering concepts such as *patterns* → *ontologies* → *software product lines* for design of a large scale and variety of software systems in education domain. Specifically, we demonstrated that eLearning Systems for adult literacy in India can be developed in around 2 person-weeks from previous best of 6 person-months.*
- March 2010** **MS by Research in Computer Science & Engineering**
International Institute of Information Technology - Hyderabad, India
- Title** **Towards Automating the Development of a family of eLearning Systems**
Advisor: Prof. Kesav V. Nori
- 10-fold productivity [development effort for eLearning Systems reduced from 5 to 6 person-years to 5 to 6 person-months] * Technology transferred to Tata Consultancy Services*
- June 2005** **B.Tech in Computer Science & Engineering * Grade - 80.3% * College Topper**
Alfa College of Engineering & Technology, Andhra Pradesh, Affiliated to JNTU - Hyderabad, India
- Project** **Next-Gen System Startup Software with Intel**
*Can we have a computer without operating system? (software for rent) * Early contributions to tianocore, a powerful pre-boot interface that led to Unified Extensible Firmware Interface*
- May 2001** **12th Standard * 92.3% * College Topper**
National Junior College (Govt.), Board of Intermediate Education, Andhra Pradesh, India
- April 1999** **10th Standard * 85.6% * School Topper**
Sri Rama Krishna Vidyalayam (Govt.), Board of Secondary Education, Andhra Pradesh, India

Experience

Academic Experience * 3 years

- June 2018 - Present** **Assistant Professor, IIT Tirupati, India**
Software Engineering, Software Engineering Lab, Industrial Software Engineering, Paradigms of Programming, Programming Methodology
- Aug 2017 - May 2018** **Visiting Faculty (Full Time), IIT Tirupati, India**
Software Engineering, Software Engineering Lab, Industrial Software Engineering, Paradigms of Programming, Object Oriented Analysis & Design, Computational Engineering
- Jan 2017 - July 2017** **Guest Faculty, IIT Tirupati, India**
Paradigms of Programming, Spring 2017
- Aug 2015 - Aug 2017** **Visiting Faculty, IIIT Sri City, India**
*Software Engineering [Foundations & Practice] - Monsoon 2015, Monsoon 2016
 Programming Languages [Foundations & Practice] - Spring 2016, Spring 2017
 ➤ ACM Game Hackers 2016, Conducted a hackathon instead of a mid-exam in software engineering course with 120 students on the theme of games for computing education*
- April 2011 - Sep 2016** **Guest Instructor/Teaching Assistant, IIIT Hyderabad, India**
Courses in Software Engineering, Principles of Programming Languages, Process Engineering

Industry Experience * 2 years + 2 years (intern)

- April 2011 - May 2009** **Research Intern, TCS Innovation Labs, India**
Sept 2011, ➤ Developed a platform called ALP Factory to re-engineer and customize existing eLearning Systems for 9 Indian Languages. We used this platform and reduced development effort from 6 person-years to 6 person-months and empirically evaluated on the field

- July 2006 - *Software Engineer (R&D)*, **Canarys Automations Pvt. Ltd., India**
 July 2007 Rapid prototyping of research ideas in the areas of Software Reuse, Component Factory [Extract, Transform, Load], Architecture and Re-engineering
 May 2005 - *Software Consultant*, **The Lighthouse Consulting Pvt. Ltd., India**
 June 2006 Developed a product for performance appraisal in management consulting

Publications

Journals

- [J.5] **Chimalakonda, S.**, & Nori, K. V. (2020). A family of software product lines in educational technologies. *Computing*, 1-28, IF:2.01
- [J.4] Venigalla, A. S. M., & **Chimalakonda, S.** (2020). DynamiQue - A Technical Intervention to Augment Static textbook with Dynamic Q&A. *Interactive Learning Environments*, Taylor & Francis, Vol. 28, IF:1.92, Accepted
- [J.3] Gollapudi, S. P. V., Choppella, V., Sanagavarapu, L. M., **Chimalakonda, S.**, & Reddy, Y. R. (2019). Promoting better financial inclusion through web page transformation—a systematic literature review. *Journal of Banking and Financial Technology*, 1-17.
- [J.2] **Chimalakonda, S.**, & Nori, K. V. (2017) A Pattern for Modeling Instructional Process for Design of eLearning Systems - Quality, Scale and Variety. *Indian Journal of Adult Education*¹ Vol. 78(1) 2017, pp. 56-65.
- [J.1] **Chimalakonda, S.**, & Nori, K. V. (2017) A Journey of Technology Enhanced Language Learning - Quality, Scale and Variety. *Indian Journal of Adult Education*, Vol. 78(2) 2017
- [J.0] Marimuthu, C., Chandrasekaran, K., & **Chimalakonda, S.** (2020). Energy Diagnosis of Android Applications: A Thematic Taxonomy and Survey. *ACM Computing Surveys*, IF:6.131, Accepted (Revisions Due)

Journals - Under Review (Some decisions got delayed due to Covid 19)

- [J.5] **Chimalakonda, S.**, & Lee, D., A Family of Standards in Software and Systems Product Lines Standards. *Computer Standards & Interfaces*, Elsevier, Under Review
- [J.4] Marimuthu, C., **Chimalakonda, S.**, & Chandrasekaran, K. An Energy-aware Modeling Framework for Self-adaptive Smartphone Applications. *Computer Standards & Interfaces*, Elsevier, Under Review
- [J.3] **Chimalakonda, S.** and Nori, K. V., Towards an Ontology Based Modeling Framework for Design of Educational Technologies. <https://arxiv.org/abs/1802.04337>, *Technology, Knowledge and Learning*, Springer, Under Review
- [J.2] **Chimalakonda, S.** and Nori, K. V., A Patterns Oriented Approach for Design of Educational Technologies. <https://arxiv.org/abs/1802.02663>, *British Journal of Educational Technology*, Wiley, Under Review
- [J.1] Venigalla, A. S. M., **Chimalakonda, S.** G4D - A Treasure Hunt Game for Novice Programmers to Learn Debugging. *Smart Learning Environments*, Springer, To be Submitted on March 30th 2020

Conferences ✱ All conference trips fully supported by merit-based scholarships

- [C.33] Agrahari, V., & **Chimalakonda, S.** (2020, May?). Refactor4Green: A Game for Novice Programmers to Learn Code Smells. To Appear In 2020 IEEE/ACM 42nd International Conference on Software Engineering (ICSE), Korea, 2020

¹ This journal is in its 81st year of publication and running since 1939

- [C.32] Agrahari, V., & **Chimalakonda, S.** (2020, July). AST[AR] - Towards Using Augmented Reality for Teaching Abstract Syntax Trees To Novice Programmers. To Appear In *2020 IEEE 20th International Conference on Advanced Learning Technologies (ICALT)*, 6 - 9 July · Tartu, Estonia, 2020
- [C.31] Agrahari, V., & **Chimalakonda, S.** (2020, July). L2- A Mini Game for Learning Indian Language Vocabulary. To Appear In *2020 IEEE 20th International Conference on Advanced Learning Technologies (ICALT)*, 6 - 9 July · Tartu, Estonia, 2020
- [C.30] Agrahari, V., & **Chimalakonda, S.** (2020, July). SupportArr: A Plugin to Comprehend Arrays for Novice Programmers. To Appear In *2020 IEEE 20th International Conference on Advanced Learning Technologies (ICALT)*, 6 - 9 July · Tartu, Estonia, 2020
- [C.29] Rao, A.E., & **Chimalakonda, S.** (2020, April). An Exploratory Study Towards Understanding Lambda Expressions in Python. o Appear In *Proceedings of the 24th International Conference on Evaluation and Assessment in Software Engineering (EASE)*, 15-17 April 2020, Trondheim, Norway, 2020.
- [C.28] V. Mishra, V., Reddy, S.K., & **Chimalakonda, S.** (2020, March). Is there a Correlation Between Code Comments and Issues? - An Exploratory Study. To Appear In *Proceedings of the 35th ACM/SIGAPP Symposium On Applied Computing (SAC 2020)*, March 30-April 3, Brno, Czech Republic, 2020.
- [C.27] Dhashade A. B., Venigalla, A. S. M. & **Chimalakonda, S.** (2020, January). Towards Prioritizing Github Issues. In *Proceedings of 13th ACM Innovations in Software Engineering Conference ISEC 2020*, Feb 29-March 1, Jabalpur, India, 2020.
- [C.26] Venigalla, A. S. M., Lakkundi, C. S., & **Chimalakonda, S.** (2020, January). PointerViz-Towards Visualizing Pointers for Novice Programmers. In *Proceedings of the 53rd Hawaii International Conference on System Sciences*.
- [C.25] Joshi, S. D., & **Chimalakonda, S.** (2019, May). RapidRelease-A Dataset of Projects and Issues on Github with Rapid Releases. In *2019 IEEE/ACM 16th International Conference on Mining Software Repositories (MSR)* (pp. 587-591). IEEE.
- [C.24] Venigalla, A. S. M., Lakkundi, C. S., Agrahari, V., & **Chimalakonda, S.** (2019, July). StackDoc-A Stack Overflow Plug-in for Novice Programmers that Integrates Q&A with API Examples. In *2019 IEEE 19th International Conference on Advanced Learning Technologies (ICALT)* (Vol. 2161, pp. 247-251). IEEE.
- [C.23] Venigalla, A. S. M., & **Chimalakonda, S.** (2019, July). Towards Enhancing User Experience through a Web-Based Augmented Reality Museum. In *2019 IEEE 19th International Conference on Advanced Learning Technologies (ICALT)* (Vol. 2161, pp. 357-358). IEEE.
- [C.22] Venigalla, A. S. M., Lakkundi, C. S., & **Chimalakonda, S.** (2019). SOTagger-Towards Classifying Stack Overflow Posts through Contextual Tagging (S). *31st SEKE. KSI Research Inc. and Knowledge Systems Institute Graduate School*, 493-639.
- [C.21] Sharma, N., & **Chimalakonda, S.** (2018, July). Learning Recursion from Music and Music from Recursion. In *2018 IEEE 18th International Conference on Advanced Learning Technologies (ICALT)* (pp. 257-261). IEEE.
- [C.20] Prasad, G. V., **Chimalakonda, S.**, & Choppella, V. (2018, Feb) Towards a Domain-Specific Language for the Renarration of Web Pages. In *Proceedings of the 11th Innovations In Software Engineering Conference*. ACM, 2018.
- [C.19] Prasad, G. V., Choppella, V., & **Chimalakonda, S.** (2018, Jan) A Style Sheets Based Approach for Semantic Transformation of Web Pages. In *Proceedings of International Conference on Distributed Computing and Internet Technology*, pp. 240-255. Springer, Cham, 2018
- [C.18] Sharma, V., Musarrat, R., **Chimalakonda, S.**, & Reddy Y. R. (2017, Dec) Muse: A Musically Inspired Game To Teach Arrays and Linked Lists. In *Chen, W. et al. (Eds.) (2017). In Proceedings of the 25th International Conference on Computers in Education*. New Zealand: Asia-Pacific Society for Computers in Education.

- [C.17] Mohan L., Prasad, G. V. S., **Chimalakonda, S.**, Reddy Y. R. & Choppella V. (2017, July). A Lightweight Approach for Evaluating Sufficiency of Ontologies. In *Proceedings of SEKE, Software Engineering and Knowledge Engineering 2017*.
- [C.16] Prasad, G.V., **Chimalakonda, S.**, Choppella, V., & Reddy Y. R. (2017, Feb). An Aspect Oriented Approach for Renarrating Web Content. In *Proceedings of the 10th Innovations In Software Engineering Conference*. ACM, 2017, pp. 56-65.
- [C.15] **Chimalakonda, S.** & Nori, K. V. (2014, July). A Patterns-Based Approach for Modeling Instructional Design and TEL Systems. In *Advanced Learning Technologies (ICALT), 2014 IEEE 14th International Conference on*. IEEE, 2014, pp. 54-56.
- [C.14] Nori, K.V., Reddy, Y. R., & **Chimalakonda, S.** (2014, Nov). Challenges for Software Engineering In Educational Technologies. In *Contemporary Computing and Informatics (IC3I), 2014 International Conference on*. IEEE, 2014, pp. 267-272.
- [C.13] **Chimalakonda, S.**, & Nori, K. V. (2013, July). Designing Technology for 287 Million Learners. In *Advanced Learning Technologies (ICALT), 2013 IEEE 13th International Conference on*. IEEE, 2013, pp. 197-198.
- [C.12] **Chimalakonda, S.**, & Nori, K. V. (2013, July). IDont: An Ontology Based Educational Modeling Framework for Instructional Design. In *Advanced Learning Technologies (ICALT), 2013 IEEE 13th International Conference on*. IEEE, 2013, pp. 253-255.
- [C.11] **Chimalakonda, S.**, & Nori, K. V. (2013, July). GURU: An Experimental Interactive Environment for Teachers/Learners. In *Advanced Learning Technologies (ICALT), 2013 IEEE 13th International Conference on*. IEEE, 2013, pp. 248-249.
- [C.10] **Chimalakonda, S.**, & Nori, K. V. (2013, May). What Makes It Hard To Teach Software Engineering To End Users? Some Directions from Adaptive and Personalized Learning. In *Software Engineering Education and Training (CSEE&T), 2013 IEEE 26th Conference on*. IEEE, 2013, pp. 324-328.
- [C.9] **Chimalakonda, S.**, & Nori, K. V. (2013, April). EasyAuthor: Supporting Low Computer Proficiency Teachers In the Design of Educational Content for Adult Illiterates. In *CHI'13 Extended Abstracts on Human Factors In Computing Systems*. ACM, 2013, pp. 649-654.
- [C.8] **Chimalakonda, S.**, & Nori, K. V. (2012, July). A Software Engineering Perspective for Accelerating Educational Technologies. In *Advanced Learning Technologies (ICALT), 2012 IEEE 12th International Conference on*. IEEE, 2012, pp. 754-755.
- [C.7] **Chimalakonda, S.**, & Nori, K. V. (2012, July). Towards a Synthesis of Learning Methodologies, Learning Technologies and Software Product Lines. In *Advanced Learning Technologies (ICALT), 2012 IEEE 12th International Conference on*. IEEE, 2012, pp.732-733.
- [C.6] **Chimalakonda, S.**, & Nori, K. V. (2012, July). Towards a Model Driven eLearning Framework to Improve Quality of Teaching. In *Technology for Education (T4E), 2012 IEEE Fourth International Conference on (pp. 138-143)*. IEEE.
- [C.5] **Chimalakonda, S.**, & Nori, K. V. (2012, Jan). Accelerating Educational Technologies using Software Product Lines. In *Technology Enhanced Education (ICTEE), 2012 IEEE International Conference on*. IEEE, 2012, pp. 1-4.
- [C.4] **Chimalakonda, S.**, & Nori, K. V. (2011, Dec). Technological Aids to Improve Quality of Teaching. In *Proceedings of ANQ Congress*, 2011
- [C.3] **Chimalakonda, S.**, & Nori, K. V. (2011, July). GAMBLE: Towards Ensuring Quality of Education Using Goal Driven Model Based Learning Environments: Automating a Family of eLearning Systems by integrating Lean And Software Product Lines. In *Advanced Learning Technologies (ICALT), 2011 11th IEEE International Conference on*. IEEE, 2011, pp. 648-649.
- [C.2] **Chimalakonda, S.**, & Nori, K. V. (2011, Feb). Can we make Software Engineering Education Better by Applying Learning Theories?. In *Software Engineering Education and Training (CSEE&T), 2011 24th IEEE-CS Conference on*. IEEE, 2011, pp. 648-649.

- [C.1] **Chimalakonda, S., & Nori, K. V.** (2009, Feb). Automating an eLearning System - A Case Study. In *Software Engineering Education and Training, 2009.CSEET'09. 22nd Conference on. IEEE*, 2009, pp. 150-153.

Peer-Reviewed Workshop Papers at ACM/IEEE ICSE

- [W.3] **Chimalakonda, S., & Nori, K. V.** (2014, May). On the Nature of Roles In Software Engineering. In *Proceedings of the 7th International Workshop on Cooperative and Human Aspects of Software Engineering*. ACM, 2014, pp. 91-94.
- [W.2] **Chimalakonda, S., & Nori, K. V.** (2013, May). What Makes It Hard To Apply Software Product Lines to Educational Technologies?. In *Product Line Approaches in Software Engineering (PLEASE), 2013 4th International Workshop on. IEEE*, 2013, pp. 17-20.
- [W.1] **Chimalakonda, S., & Nori, K. V.** (2013, May). What Makes It Hard To Design Instructional Software?: Towards a Collaborative Platform for Stakeholders of Instructional Software. *Proceedings of the 5th International Workshop on Co-operative and Human Aspects of Software Engineering*. IEEE Press, 2012, pp. 15-19.

Research Contributions to International Standards (ISO)²

- 2019→ ISO/IEC 26560:2019, *Software and Systems Engineering - Tools and methods for product line product management*, International Standard
- 2019→ ISO/IEC 26561:2019, *Software and Systems Engineering - Methods and tools for product line technical probe*, International Standard
- 2019→ ISO/IEC 26562:2019, *Software and Systems Engineering - Methods and tools for product line transition management*, International Standard
- 2019→ ISO/IEC 26552:2019, *Software and Systems Engineering - Tools and methods for product line architecture design*, International Standard
- 2018→ ISO/IEC 26553:2018, *Software and Systems Engineering - Tools and methods for product line realization*, International Standard
- 2018→ ISO/IEC 26554:2018, *Software and Systems Engineering - Tools and methods for product line testing*, International Standard

🏆 The Bureau of Indian Standards (BIS) has funded my trip to Finland in May 2019 to contribute to the above standards.

🏆 Official appreciation from ISO & Bureau of Indian Standards (BIS) <http://bit.ly/2mJAjaY>

Funding/Collaborations

- 2019→ “A Novel Approach for Bug Localization”, Research Based Consulting Project, **Robert Bosch**, AI and Software Engineering Research Group, Bengaluru, India, ₹14,49,630
- 2017→ “Software Reuse and Quality Analysis of Online Coding Platforms”, Collaboration Project, **CodeChef**
- 2018→ “Software Engineering”, NFIG, **IIT Tirupati**, ₹5,00,000
- 2019→ “Web Accessibility for All - Design and Development of Approaches and Tools for Evaluation and Refactoring of Government Websites”, **DST**, ₹72,00,000, Under Review
- 2020→ “Discovering and Refactoring Energy-Hungry Design and Code Smells in Software Systems”, **SERB Startup Research Grant**, ₹32,00,000, Under Review
- 2020→ “Research Internships for Undergraduate Students”, **Dr. Mei Nagappan, University of Waterloo, Canada**, Sending two 3rd year students Dheeraj and Kowndinya in Summer 2020

² Owing to our research goals, we initially focused on impact through international standards (ISO/IEC) and addressing societal challenges (work transferred to National Literacy Mission Authority, Government of India).

Institute Service

2017→ *Technical Advisor*

This is the main role I perform and continuously plan, evaluate and guide for relevant Workshops, Technical events, Projects and *Tirutsava*, our annual techno-cultural fest

Inter Tech 2018 - IIT Tirupati stood at 7th place among all IITs

Inter Tech 2019 - IIT Tirupati stood at 11th place with 1 Gold, 1 Bronze and 1 Silver medal
Smart India Hackathon 2019, 2020

Hack 2020 (24 hour internal hackathon)

2017→ *Placement Advisor, Department of Computer Science & Engineering*

Continuously guide students for placements and internships

2018→ *Co-Advisor, Computer Center (Software)*

Continuously plan, assess and guide software projects at the institute level including workflow software and portals such as admissions, staff and faculty recruitment

2019→ *Convocation Committee*

Developed a mobile application for convocation along with my student team

2017→ In addition to this, I continuously mentor students on various projects and also contribute to all events and activities in the department

Selected Honours & Awards

- * *Microsoft Research Travel Grant* to attend ACM CHI Conference on Human Factors in Computing Systems, CHI 2013, ACM/IEEE International Conference on Software Engineering (ICSE), 2013 and 2012
- * *SIGSE Travel Grant* and *ACM SIGSOFT CAPS Travel Grant* to attend ICSE 2012 and 2013
- * *TCS International Travel Grant* to attend IEEE 13th International Conference Advanced Learning Technologies (ICALT 2013)
- * *Travel Grants* to attend conferences in India - ISEC 2008, 2009, 2012, 2013, ICTEE 2012, India HCI 2011, ISSRE 2009, RE 2007
- * Part of *Scorpus Innovation Team* (Top 100 IT Innovators by NASSCOM for the year 2007) during my work at *Canarys Automations Ltd.*

Selected Professional Activities/Service

- * *Track Co-Coordinator*, 20th IEEE International Conference on Advanced Learning Technologies, Estonia, 2020.
- * *Track Coordinator*, 19th IEEE International Conference on Advanced Learning Technologies, Maceio, Brazil, 2019.
- * *Workshop Co-Chair*, ACM 13th Innovations in Software Engineering Conference 2020, ACM.
- * *Tutorial Co-Chair*, 11th Innovations in Software Engineering Conference 2018, ACM.
- * *Organizing Committee*, Winter School in Software Engineering 2017, ACM.
- * *Tutorial Co-Chair*, 11th Innovations in Software Engineering Conference 2018, ACM.
- * *Organizing Committee*, Winter School in Software Engineering 2017, ACM.
- * *Member*, IEEE, ACM, Computer Society of India (CSI)
- * *Member*, ACM SIGSOFT, iSOFT, iSIGCSE, Technical Council on Software Engineering
- * *Member*, Technical Committee on Learning Technology, IEEE Computer Society
- * *Session Chair*, Technology Enhanced Language Learning session, ICALT 2013
- * *Reviewer* for HICSS-45, CHI 2014, ACM TOSEM Journal
- * *Key contributor of funding proposal* "An Eco-System For Delivery of Mobile Learning Content" for ITRA, India for \$5 million (suggested for another stream)