# Venkatesh Choppella

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| CONTACT INFORMATION | International Institute of Information Technology Hyderabad<br>GachiBowli, Hyderabad<br>Andhra Pradesh 500 032, INDIA<br><br>*Voice:* +91 965-274-0281<br>*Fax:* +91-40-6653 1413<br>*E-mail:* venkatesh.choppella@iiit.ac.in |

**AREAS OF INTEREST AND RESEARCH**

Software Architectures, Web technologies, Programming Languages, Formal specification and verification of systems, Computer Science Education

**EDUCATION**

**Indiana University**, Bloomington, Indiana, USA

Ph.D. in Computer Science, Aug 2002

**Indian Institute of Technology, Madras**, Chennai, India

M.Tech., Computer Science and Engineering, May, 1987

**Indian Institute of Technology, Kanpur**, Kanpur, India

B.Tech., Computer Science and Engineering, May, 1985.

**EMPLOYMENT**

| Role | | | | | |
|---|---|---|---|---|---|
| *Associate Professor*, IIIT Hyderabad | **Jan** | **2010** | **-** | | |
| *Associate Professor,* Indian Inst. of Info. Tech.& Mgmt Kerala | **Oct** | **2003** | **-** | | |
| *Post-Doctoral Researcher*, Oak Ridge National Laboratory | **Dec** | **2002** | **-** | **Sep** | **2003** |
| *Senior Software Engineer*, Hewlett-Packard Company | **Jan** | **2001** | **-** | **Aug** | **2001** |
| *Research Staff*, Indiana University | **Mar** | **2000** | **-** | **Dec** | **2000** |
| *Senior S/W Engineer*, Xerox Corporation | **Sep** | **1999** | **-** | **Feb** | **2000** |

**EMPLOYMENT CONTD.**

| Role | | | | | |
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| *Research Staff*, Derivation Systems | **Jun** | **1995** | **-** | **May** | **1997** |
| *Research/Teaching Associate* Indiana University | **Aug** | **1988** | **-** | **Jan** | **1995** |
| *S/W Engineer* CMC Ltd | **Mar** | **1987** | **-** | **Aug** | **1988** |

**VISITING APPOINTMENTS**

| Role | | | | | |
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| *Visiting Associate Professor*, IIIT Hyderabad | **Jul** | **2009** | **-** | **Dec** | **2009** |
| *Visiting Associate Professor*, IIIT Bangalore | **Jul** | **2009** | **-** | **Apr** | **2010** |
| *Visiting Research Associate*, Ohio State University | **May** | **2005** | **-** | **May** | **2006** |

**RECENT/SELECTED PUBLICATIONS**

Krishna Chaitanya Telikicherla and Venkatesh Choppella. **Enabling the Development of Safer Mashups for Open Data**. Proceedings of the 1st International Workshop on Inclusive Web Programming - Programming on the Web with Open Data for Societal Applications. (IWP 2014). Jun 2014. ACM.

Gollapudi VRJ Sai Prasad, T. B. Dinesh, Venkatesh Choppella. **Overcoming the new accessibility challenges using the sweet framework** Proceedings of the 11th Web for All Conference. (W4A '14). ACM

Himanshu Zade, Santosh Adimoolam, Sai Gollapudi, Anind Dey and Venkatesh Choppella. **Edit Distance modulo Bisimulation: A Quantitative Measure to Study Evolution of User Models**. Proceedings of the ACM Conference on Computer Human Interaction (CHI) 2014.

Krishna Chaitanya Telikicherla and Venkatesh Choppella. **Alloy model for Cross Origin Request Policy (CORP)**. IIIT Hyderabad Tech Report IIIT/TR/2013/31. 2013

Ankur Goel, Venkatesh Choppella. **State based access control for open e-governance**. Proceedings of the 7th International Conference on Theory and Practice of Electronic Governance. (ICEGOV '13). 2013. ACM

T B Dinesh and Venkatesh Choppella. **A case for process-driven models for e-governance architectures**. 7th International Conference on E-Governance. 22 - 24 Apr 2010. Bangalore, India.

V. Choppella, A. Sengupta, E. L. Robertson and S. D. Johnson. **Preliminary Explorations in Specifying and Validating Entity-Relationship Models in PVS.** Proceedings of AFM 07, ACM Workshop on Applied Formal Methods, Nov. 6th, 2007, Atlanta, USA. Preprint available at http://fm.csl.sri.com/AFM07/afm07-preprint.pdf.

V. Choppella. **Polymorphic Type Reconstruction Using Type Equations.** In *Implementation of Functional Languages 15th International Workshop, IFL 2003, Edinburgh, UK, Sep 2003 Revised Papers*. Springer Lecture Notes in Computer Science, Vol. 3145, pp. 53–68, 2004.

V. Choppella and C. T. Haynes. **Source-tracking Unification**. In *Proceedings of 19th International Conference on Automated Deduction, (CADE-19), Miami Beach, USA, Aug 2003* Springer Lecture Notes in Artificial Intelligence, Vol. 2741, pp. 458–472, 2003.

**Workshops and Tutorials conducted**

Introduction to Aspect-Oriented Design and Programming. **Invited Tutorial**. *Thirteenth International Conference on Advanced Computing and Communications, Coimbatore, India, Dec 14th, 2005*. With Anurag Mendhekar.

Principles of Programming for Web 2.0. 2 week Summer School at IIIT Hyderabad for college teachers. May 3rd–14th. IIIT Hyderabad. With T B Dinesh.

PATENTS

Cristina Lopes, Gregor Kiczales, John Lamping, Erik Hilsdale, Venkatesh Choppella, and Taher Haveliwala. Aspect-Oriented System Monitoring and Tracing. *U.S. Patent No. 09/357,508*. Filed 1999. Awarded April 2002.

AWARDS

All India Manthan Awards Second Prize in the E-Governance category for coordinating the Trivandrum City Police Portal for Community Interaction www.tvmcitypolice.org, New Delhi, India, 2005.

Best Paper Award. International Parallel and Distributed Processing Symposium (IPDPS), Albuquerque, New Mexico, USA, 2004.

Best Paper Award (Systems). Internationl Conference on High Performance Computing (HiPC), Hyderabad, India, 2003.

DuPont Fellowship, Computer Science Dept., Indiana University, 1988.

Merit Certificate for performance in the Joint Entrance Examination, IIT Kanpur, 1981.

GRANTS

Virtual Labs Phase 2, MHRD, Govt of India. Approx. 70 Crores over three years (Expected July 2014). National Integration Coordinator and responsible for deliverery of Engineering backend (Approx. 15 Crores over three years).

Linneaus Palme Award for faculty exchange between Malardaalen University Sweden and IIIT Hyderabad. 2014. (80,000 SEK, approx. 8 Lakh INR).

Research Grant from Siemens India Ltd. 2012-2013. Approx. 16 Lakhs. Pincipal Invesigator.

European Commission. Erasmus Mundus External Cooperation Window. European Research and Educational Collaboration with Asia Project for Academic Mobility 2008-2009. http://www.mrtc.mdh.se/eureca/. Institute Coordinator. 10,000 Euro.

GRANTS CONTD.    Ministry of Information Technology, Government of India. Information Security Education and Awareness (ISEA) 2006-2011. Principal Investigator at Participating Institution IIITM-K. Rs. 300,000 per annum.

Government of Kerala. Police Portal for Community Interaction 2004-2005. Rs. 2,900,000. Co-investigator.

CONSULTING    Cognizant Technologies. Chennai, India. December 2007-January 2008.

Satyam Computers. Hyderabad, India. April 2008.

Servelots Infotech. Bangalore, India. Since December 2007

Indian Postal Service. New Delhi, India. May 2009

Terumo Penpol Ltd. Trivandrum, India. December 2008

PROFESSIONAL SERVICE    Programme committee member, 1st International workshop on Web-supported concurrent collaborative work. (WSCCW 2010), Hong Kong. December 2010.

Programme committee member, 4th ACM International Conference on theory and practice of e-governance (ICEGOV 2010), Beijing, China. November 2010.

Reviewer and Examiner, Design and Development of Robot Design Platform and Database Research Platform and Database based Robot Software Development Framework. MS Thesis by Subhash S. IIIT Hyderbad. May 2010

Programme committee member, 11th International Conference on Distributed Computing and Internet Technologies (ICDCIT) February, 2011, Bhubaneswar, India.

Reviewer, Formal Methods in System Design. Springer, 2010.

Programme committee member, 4th India Software Engineering Conference (ISEC) February, 2011, Thiruvananthapuram, India.

Programme committee member, 10th International Conference on Distributed Computing and Internet Technologies (ICDCIT) February, 2010, Bhubaneswar, India.

Programme committee member and reviewer, International Conference on Software Engineering Education and Training (CSEET) Feb 17-19, 2009, Hyderabad, India.

External reviewer for PhD Thesis, Computer Science, Indian Institute of Technology, Bombay, Jan 2009.

Convener, Institute Information Technology and Services Committee, IIITM-K. Mar 2008 -

Jan 2009.

Member, committee appointed by Kerala State IT Mission, Govt. of Kerala, to implement Public Key Infrastructure in state government offices, 2008.

Reviewer, Journal of Parallel and Distributed Computing. Elsevier. Aug 2008.

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| PROFESSIONAL SERVICE CONTD. | Reviewer, International Journal of Formal Computing. Springer. Aug 2008. |

Organizer, Free Map Workshop, IIITM-K, Feb 2008.

Organizer, One day workshop on Pantoto: Building Information Management Systems for Small and Medium Enterprises. IIITM-K, Feb 2008.

Programme and Organizing Committee member, IEEE workshop on Connecting Computer Science to Domains, IIITM-K. Dec 2007.

Convener, Institute Academic Affairs Committee, IIITM-K. Aug 2006 - July 2007.

Moderator, Panel on Computer Science Teaching, National workshop on Technology Enhanced Learning, Trivandrum, Kerala, India. Jan 5th-6th, 2007.

Panelist, Scilab in Science and Engineering Education. Indo-French Workshop on Scilab, IIT Bombay. Mar 8th, 2007.

Organizer, IEEE/CSI Workshop on Community Wireless Networking, Trivandrum, Kerala, India, Dec 1st-2nd, 2006.

Programme Committee member, International Conference on Advanced Computing and Communications (ADCOMM 05), Coimbatore, India, Dec 14-17, 2005.

Programme Committee member, Free Software, Free Society: Three nation conference on Free, Libre and Open Source Software, Trivandrum India, May 2005.

Board Member, SPACE (Society for Promotion of Alternative Computing and Employment), NGO for promoting Free and Open Source Software in Kerala. Since 2004.

Anonymous referee for The Fifth International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 04), 2004.

Acknowledged by the authors of the following books for proof reading, comments and technical assistance:

- G. Springer and D. P. Friedman. Scheme and the Art of Programming. *MIT Press, 1989*.
- D.P. Friedman, M. Wand and C.T. Haynes. Essentials of Programming Languages, 1st Edition *MIT Press, 1991*.
- Raymond Smullyan. Gödel's Incompleteness Theorems. *Oxford University Press, 1992*.
- Jon Barwise and Lawrence S. Moss. Vicious Circles *CSLI Stanford, 1997*.

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| PROFESSIONAL MEMBERSHIP | Computer Society of India |

Indian Association for Research in Computer Science

CITIZENSHIP    Citizen of India

DATE OF BIRTH    Available upon request.

LANGUAGES    English, Hindi, Telugu

REFERENCES    Available upon request.