

Dr. BIPLAV SRIVASTAVA
Senior Researcher, IBM Master Inventor, IBM Research – India
ACM Distinguished Scientist, ACM Distinguished Speaker

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Elevator Pitch

Biplav is an experienced researcher and technologist interested in enabling people to make rational decisions despite real world complexities of poor data, changing goals and limited resources by augmenting their cognitive limitations with technology. His expertise is in Artificial Intelligence, Services and Sustainability, with proven track record of many science firsts and high-impact innovation (up to \$B+) in global business environment. Biplav has received major recognitions for technical work, patents and prototypes from IBM and external community, interacted with commercial customers as well as universities and governments, represented company at standard bodies, and assisted business leaders at highest levels with technical issues.

Fields of Interest / Expertise

Data - Semantic Web, Open and Big Data, Data Mining, Information Extraction;
Analytics – Planning, Scheduling, Rule-based Systems, Learning;
Business Integration – Web Computing Models, Asset Reuse, Service Delivery Optimization, Business Processes;
Industry – Sustainable Transportation, Health, Governance

Education (all degrees in Computer Science)

- Ph.D.: Arizona State University, Tempe, AZ, USA Fall 1996- Spring 2000
Dissertation Topic: Efficient Planning by Effective Resource Reasoning
- M.S.: Arizona State University, Tempe, AZ, USA GPA:4.0/4.0 Fall 1994 - Summer 1996
- B.Tech.: Indian Institute of Technology (IIT), B.H.U., India GPA:9.06/10 Fall 1989- Summer 1993
- Micro-MBA: Management module at IBM taught by top-US MBA faculties Fall 2011 (1 week) &
Summer 2005 (6 months)

Experience Summary

2009-	Senior Researcher	IBM Research, New Delhi, India
2007-2009	Research Staff Member	IBM T.J. Watson Lab, NY, USA
2006-2007	Research Staff Member	IBM Research, New Delhi, India
2005-2006	Research Staff Member	IBM Research, Bangalore, India
2001-2005	Research Staff Member	IBM Research, New Delhi, India
2000-2001	Core Technology Architect, R&D	Bodha.com, Los Altos, CA, USA
1996-2000	Senior Staff Engineer PhD Scholar	Philips Semiconductors (VLSI Tech.), Phoenix, USA Arizona State University, USA
1994-1996	MS Student	Arizona State University, USA
1993-1994	Assistant System Analyst	TCS, New Delhi, India

Research Experience: 20 years (Industry – IBM Research: 14; Academic – ASU: 6)
Interleaved Development Experience: 5.5 years fulltime (Philips - 4, Bodha – 0.5, TCS: 1)

Papers

- 100+ refereed research papers in leading international journals, conferences and other forums; **published at all top forums in major fields of interest (i.e., AI, Services and Sustainability)**

- About 2500 citations. Full listing at Google scholar web site and on request.

Patents/ Intellectual Property

1. 34 US patents have been granted; single inventor on 4
2. 40+ other US patents have been filed; many more in various stages.
3. IBM's 15th Plateau Award for Technical achievements
4. Philips/VLSI Trade secret award

Recent Major Awards/Honors

- 2014
 - **ACM Distinguished Scientist, 2014 recognition**, for significant scientific achievements and impact, <http://www.acm.org/press-room/news-releases/2014/distinguished-2014>
 - 2014-2017: **IBM Master Inventor** – for outstanding patent activities; repeat recognition
 - Lead a team that came **runner-up** in the **CitySDK App Challenge** (<http://dev.hel.fi/node/199>), a EU funded competitive initiative and won a 2000 Euro prize. Details: <http://www.slideshare.net/biplavsrivastava/city-concierge-presentation10june2014> (June 2014)
 - Was awarded IBM's **Outstanding Technical Achievement Award (OTAA)**, an individual award for leading Synthy web services scientific accomplishment.
- 2013: **ACM Distinguished Speaker, 2013 recognition** (http://dsp.acm.org/view_lecturer.cfm?lecturer_id=4923)
- 2012
 - **ACM Senior Member, 2012 recognition** (http://awards.acm.org/award_winners/srivastava_uk87677.cfm)
 - Was given **IBM Corporate Award**, one of the highest internal individual awards for “leadership contributions to SAP NextGen Tools and its Impact on SAP Clients”; given for multi-billion \$ impact and new industry practice
- 2011
 - **Represented IBM** at World Wide Web Consortium (W3C's) working group on Government Linked Data (GLD): www.w3.org/2011/gld/ (2011 - 2013)
 - 2011-2014: **IBM Master Inventor** – for outstanding patent activities

Customers, Government Interaction, People Management

1. International experience in interacting with city governments around the world including [Boston](#) (USA), Singapore, Delhi and Bangalore (India), Ho Chi Minh City (Vietnam). Sample press - http://www.boston.com/business/technology/articles/2012/06/29/ibm_gives_advice_on_how_to_fix_boston_traffic_first_get_an_app/ [2010-]
2. Experience in interacting with commercial customers around the world, be Fortune-500 conglomerates or leaders in particular industries like airlines, transportation, construction and IT technology. [2000-]
3. Rich interaction and collaboration with leading Computer Science academics in USA, Canada, Vietnam, Australia, Italy and India, as well as with industrial research labs (PARC, MSR) and government labs (India). [1996-]
4. Technical lead on major research projects for over 5 years involving group size varying from 2 to 7 members. Teams have been local as well as globally distributed. [1998-]
5. Mentor or academic advisor to many graduate students (cum professionals) within IBM and students at premier institutions in India (IITs, IISc) and abroad (specifically USA, France). [2005-]

Professional Services

- Very active in organizing conference (10+) and workshop events (30+), Program Committee participation in top conferences (50+); presented 3 tutorials at top international conferences, and frequent speaker at universities; see details at http://researcher.watson.ibm.com/researcher/view_person_subpage.php?id=911, ACM DSP talks are here: http://dsp.acm.org/view_lecturer.cfm?lecturer_id=4923
- Member of 3 PhD committees in USA and France (2 completed); Graduate external PhD committee expert at ASU, USA; external expert on many PhD programs in India.
- Oversaw patent related issues at IBM Research-India (2011-2012) jointly; internal patent evaluator for 5+ years (since 2009).
- Running the “AI in India” Google group for 4+ years with 70+ members. Details at: <http://groups.google.com/group/ai-in-india>
- Governing Body member of IIT-BHU Alumni Association (AIBA), Delhi Chapter, 2012-2014.
- Member of AAAI, ACM and IEEE