

## **BHUVANESH “BHUVAN” UNHELKAR, PHD, FACS**

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### **EDUCATION**

Doctorate from University of Technology, Sydney (UTS) 1997

Thesis titled “*Effect of Granularity of OO Design in Modelling an Enterprise and its application to Financial Risk Management*”; Supervised by Professor Brian Henderson-Sellers. Thesis discussion on size and design of objects, application of systems approach to software, Object-oriented Methodologies and Processes, IT strategic planning, Enterprise Modelling and Sociological issues – related to change management - in IT project management with practical application in industrial work.

Master of Science, UTS, Sydney 1992

Four-subject equivalent substantial project in Object-Orientation. The practical aspect of the project was supported by and implemented at Public Works Department and later at Dow Jones Markets in Sydney, Australia.

Masters Diploma in Business Administration 1986

Equivalent to an MBA, Pune, India  
Specialization in Marketing.

Bachelor of Engineering-Electronics, India 1982

This was a five-year full time study at the MS University of Baroda, Vadodara, India.  
All academic achievements have been with distinction.

Certificate courses:

The Certificate IV in Training and Assessment and extension to Training and Education 2009

Certified Business Analysis Professional (CBAP) since Sep 2013

### **EMPLOYMENT**

**Associate Professor** Tenured, Aug 2015 –Present

Information Technology - Lead Faculty

University of South Florida – Sarasota Manatee (USFSM), Florida, USA

- Intense Research focus on Big Data strategies; Agile processes – based on CAMS and application in practice
- Responsible for all IT courses and programs (Undergraduate level; Online teaching)
- Introducing Big data concentration in current BSIT and BSAS programs (Courses: Big Data Architecture with Hadoop; NoSQL)

- Chaired the recruitment committee for two Assistant Professors (tenured track) in IT for the department; member of the selection committee for Assistant/Associate Professor in IS&D
- Community engagement for the College of Business
- ABET Accreditation activities

**Adjunct; Visiting Fellow**

Feb 2008 – Jul 2015

University of Western Sydney (UWS); (Now Western Sydney University)

**Principal Consultant**

Feb 2008 – Jul 2015

MethodScience

The following positions were held from 2008 - 2015

**Adjunct; Visiting Faculty**

University of Technology, Sydney

- Teaching Object Oriented Modeling and Object Oriented Process
- Redesigned to Advanced Software Modeling; and Agile Method Engineering
- Masters Projects supervision

**Visiting Faculty**

Great Lakes Institute of Management, Chennai, India

- Designed and developed: Big Data Management and Business Intelligence
- Management Information Systems
- Mentored MBA students

**National Director – Australian Institute of Business Analysis, (AIBA)**

Competencies and Standards

- Significant International contribution to IT Consulting and training industry

**External Examiner, Australian Computer Society**

- Dip. In IT program – units of Object Oriented Software Development
- Computer Organization and Computer Communications);
- Mentor and Tutor for Computer Professional Education Program – Workplace based Masters program – teaching New Technology Alignment)

**Senior Lecturer – Tenured**

Oct 2001 – Jan 2008

University of Western Sydney

- Head of Program (Bachelor of Computing)
- Academic Team Leadership;
- Research and Scholarly publications (19 books completed)
- Topics included Quality assurance, Software Engineering & Processes, Collaborative Business, Mobile Technologies and Architecture, Supply Chain Systems, innovation and application of strategies to entrepreneurship and Green IT (environment).
- Excellence in Teaching in subject areas of Systems and Software Engineering (with focus on Object-Orientation), Business Processes (Strategic use of Reengineering); Global

Information Systems (Enterprise management and Integration); IT Project Management (Integration, Strategies);

**Associate of UTS and Visiting Faculty**

Feb 2008 – 2015

University of Technology, Sydney

- Created and delivered 'Global Information System' unit with particular industrial focus on innovation and strategic use of ICT
- Regular supervision of Masters projects (ITRM, ITRP)
- Currently delivering Object Oriented Modeling, and Object Oriented Process.
- Currently supervising ITRM and Project
- Presented "Agile Project Management" full day seminars over last 2 years to Architecture and Design (Masters) students.
- Past participation in UTS promotions

**Visiting Faculty**

Aug 1998 – Nov 1998

University of New South Wales

- Created and delivered 'Object Oriented Information Systems' course. Particular focus on processes and methodologies.

**Associate Faculty**

Aug 1997 – Nov 1997

University of Technology, Sydney

- Created and delivered 'Object Oriented Software Engineering' course.
- Focus on reuse and quality through OO modeling and associated use of processes

**Director – Internet and Component Technologies**

Sept 1999 – Oct 2001

Myriad Solutions

Clients: Qantas, Aon Risk Insurance, Suncorp Metway, TLRG

**Principal Consultant**

Aug 1998 – Aug 1999

CASE digital Inc. (San Francisco, USA.).

Practical use of systems approach; use of processes in systems development.

**Senior Consultant & Business Development Manager**

Apr 1998 – Aug 1998

Object-Oriented Pty Ltd, North Sydney

Clients Westpac, ANZ

**Senior Product Development Manager**

Oct 1992 – Apr 1998

DOW JONES MARKETS (Sydney, Australia).

Practical hands-on management experience in producing business value by leading a team of developers. Products developed: Portfolio & Risk Management system; Currency Options System; Participation in strategic direction of the company. Won Computerworld award for best use of an OO process across the organization.

**Consultant**

Aug 1990 – Aug 1992

Public Works Department of NSW

Tender Verification & Quality Assurance, for the Prophecy Accounting System Project

**Contract work**

Aug 1989 – Jul 1990

ANZ (via RHO Systems)

Testing and Quality assurance of Honeywell to IBM conversion

**Analyst**

Jan 1989 – Jul 1989

WESTPAC, CS90 project

Testing and Quality assurance of CS90 in-house developed banking system

**Analyst - EDP Auditor**

Jul 1986 – Dec 1988

ADVANCE BANK (Global Financial Systems)

**Programmer – Analyst**

Jul 1982 – Jul 1986

TELCO, Pune, India.

Analysis and Coding in COBOL for Payroll MIS; followed by Auto Inventory management system

## PERSONAL

**NATIONALITY** AUSTRALIAN; USA Permanent Resident (Green card)

**CERTIFICATIONS** Certified Business Analysis Professional CBAP® 2013  
Certificate in Software Quality Assurance, ACS Australia 1993  
Certificate IV in Training & Assessment/Education 2010

**MEMBERSHIPS** Fellow of Australian Computer Society FACS 1990-  
Life Member of Computer Society of India 2004-  
Life Member of Baroda Management Association, India 2011-  
Society for Design and Process Science (SDPS), USA 2015-  
Rotary (Sunrise Sarasota; & St.Ives in Sydney)  
Past President; Classification Software Engineering 2002-  
Paul Harris Fellow+2, Assistant Governor  
Volunteer, NSW Parks and Wildlife, Kuringai 2006-

### ***Past Memberships:***

Branch Executive Committee, NSW branch of ACS;  
Mentor Director, The Indus Entrepreneur ([www.TiE.com](http://www.TiE.com)); Editor, TiE  
Sydney Bulletin;  
Chair of Object Oriented Special Interest Group of the Australian  
Computer Society;  
Member, Software Quality Association;  
President, Marathi Association of Sydney, Inc.

**AWARDS** *Consensus* IT Writer's Award 2010  
*Consensus* IT Professional 'Service to Industry' Award 2006  
*Computerworld* Object Developers Award 1995  
"Best use of OO approach across Organization", for Dow Jones  
Markets (Telerate)

**LANGUAGES** English, Hindi, Marathi, Gujarati (all fluently Written and Spoken)

## REFEREES:

### **Prof. Anurag Agarwal, Ph.D.**

Professor, College of Business  
University of South Florida (Sarasota-Manatee Campus)  
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**Professor Yi-Chen Lan, Hon. D.Econ(UEH), PhD(UWS), BCom(Hons), MACS |**

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**Prof. Sanjeev Sharma, Ph.D.**

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**Mr. Keith Sherringham**

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## RESEARCH

### **Books**

**Unhelkar, B.**, (2017), *Software Modeling with UML*, (CRC Press/Taylor and Francis Group/an Auerbach Book), Boca Raton, FL, USA. Authored ISBN:

**Unhelkar, B.**, (2017), *Big Data Strategies for Agile Business*, (CRC Press/Taylor and Francis Group/an Auerbach Book), Boca Raton, FL, USA. Authored ISBN:

**Unhelkar, B.**, (2013), *The Art of Agile Practice: A Composite Approach for Projects and Organizations* (CRC Press/Taylor and Francis Group/an Auerbach Book), Boca Raton, FL, USA. Authored ISBN 9781439851180

**Unhelkar, B.**, (2011), *Green ICT Strategies & Applications: Using Environmental Intelligence*, CRC Press (Taylor and Francis /Group/An Auerbach Book) , Boca Raton, FL, USA, April, 2011. Authored ISBN: 9781439837801

**Unhelkar, B.**, (2010), *Handbook of Green ICT: Technical, Methodological and Social Perspectives* Edited, IGI Global, Hershey, PA, USA, Dec, 2010.

**Unhelkar, B.**, (2009), *Handbook of Research in Mobile Business: Technical, Methodological and Social Perspectives – 2<sup>nd</sup> Edition*, Edited, IGI Global, Hershey, PA, USA, Dec, 2008. ISBN 978-1-60566-156-8

**Unhelkar, B.**, Ghanbary, A., and Younessi, H. (2009), *Collaborative Business Process Engineering and Global Organizations: Frameworks for Service Integration* IGI Global, Hershey, PA, USA, ISBN: 978-1-60566-689-1; 323 pp; (c) 2010

**Unhelkar, B.**, (2009), *Mobile Enterprise Transition and Management*, Taylor and Francis (Auerbach Publications), Boca Raton, FL, USA. 393 pages, ISBN: 978-1-4200-7827-5 (Foreword by Ed Yourdon, USA)

**Unhelkar, B.**, (2008), *Australasian Software Excellence – II*, MethodScience Publication, Australia, May, 2008

**Unhelkar, B.**, (2006), *Handbook of Research in Mobile Business: Technical, Methodological and Social Perspectives*, Edited, IDEAS Group Publishing, April, 2006. Pages 1100+, Chapters 63 (Foreword by Dr Elaine Lawrence, UTS, Sydney, Australia)

**Unhelkar, B.**, (2006), *Australian Software Excellence: Consensus Software Awards Selections 2004 and 2005*, MethodScience Publication, April, 2006, Sydney, Australia. Pages 250; Hardcover; (Foreword by Hon. Senator Helen Coonan, Federal IT Minister)

**Unhelkar, B.**, (2005), *Verification and Validation for Quality of UML Models*, John Wiley and Sons, (Wiley Interscience), July, 2005; Clothbound, Pages 290+. ISBN: 0471727830 (Foreword by Prof. Brian Henderson-Sellers, UTS, Sydney, Australia)

**Unhelkar, B.**, (2005), *Practical Object Oriented Analysis*, Cengage (first published by Thomson Publishing), Australia, March, 2005. Pages 221; ISBN 0-17-012298-0 (Foreword by Prof. Houman Younessi, Rensselaer Institute of Polytechnic, Hartford, USA)

**Unhelkar, B.**, (2005), *Practical Object Oriented Design*, Cengage (first published by Thomson Publishing), Australia, July, 2005. Pages 220+. ISBN 0-17-012299-9 (Foreword by Prof. Brian Henderson-Sellers, UTS, Sydney, Australia)

Lan, Y., and **Unhelkar, B.**, (2005), *Global Enterprise Transitions*, IDEAS Group Publishing, 2005, Total Pages 240. ISBN: 1591406250 (Foreword by Prof. Mahesh Raisinghani, Texas Women's University, USA)

Lan, Y., and **Unhelkar, B.**, (2005), *Global Integrated Supply Chain Systems*, IDEAS Group Publishing, Hershey, PA, USA. Sep, 2005, ISBN 159140611-0

**Unhelkar, B.**, (2003), *Process Quality Assurance for UML-based Projects* Pearson Education (Addison-Wesley), Boston, 2003; (394 Pages + CD. Foreword by Vicki P. Rainey, Raytheon Corporation, USA). ISBN 9 780201-758214

Henderson-Sellers, B., and **Unhelkar, B.**, *OPEN modeling with UML*, co-authored with Prof. Brian Henderson-Sellers, Addison-Wesley, UK, June 2000; Total pages: 245. (Foreword by Richard Soley, CEO, Object Management Group, USA)

**Unhelkar, B.**, *After the Y2K Fireworks: Business and Technology Strategies* CRC Press, Boca Raton, USA; July 1999; Total pages: 421. (Foreword by Richard T. Due, Alberta, Canada)



### ***Edited Conference Proceeding***

**Unhelkar** B., and Lan, Y., *Proceedings of the Association of Information Management and Business Conference*, Sydney, 2006

### ***Books In Progress***

*Outcome Driven Business Architecture*, CRC Press, USA, due 2017 (Co-authored with Amit Tiwary, Melbourne, Australia)

*Enterprise Architecture for Digital Business: Integrated Transformation Strategies*, CRC Press, USA (Co-authored with Dr. Tushar Hazra, Ellicott City, MD, USA)

*Big Data Analytics* (Co-authored with Dr. Anurag Agarwal, USFSM, FL, USA)

*Databases: Design, Implementation and Management: Relational – Object Oriented - NoSQL* (Co-authored with Dr. Anurag Agarwal, USFSM, FL, USA)

*Indian Software Excellence*, Taylor and Francis, New Delhi, India, due 2018.

*Psychology of Agile*

*Software Engineering with the UML*

### ***Journals***

Akserzai, W., and Unhelkar, B., (2017) "Impact Of Virtual Workplace On Employee Behaviour- Evidence From Australian SMEs" IABE<sup>®</sup> International Academy of Business and Economics<sup>®</sup> IABE [www.iabe.edu](http://www.iabe.edu)

Unhelkar, B., and Sharma, A., "Innovating with IoT, Big Data, and the Cloud", *Cutter Business Technology Journal*, 2017

Bahja,J., Cobanoglu, C., Berezina, K. and **Unhelkar**, B. Using verbal mimicry and emoticons on responding to online reviews in hotels: Disruptive approach, *Journal of Information Technology & Tourism*, Springer, June 2016

**Unhelkar, B.**, "A Strategic Approach to Big Data: Key to Analytical Success", *Cutter IT Journal*, (Theme: Cultivating Success in Big Data Analytics), Vol 29, No. 6, June 2016

Hazra, T., and **Unhelkar**, B., Leveraging EA to Incorporate Emerging Technology Trends for Digital Transformation, *Cutter IT Journal*, theme - Disruption and Emergence: What Do They Mean for Enterprise Architecture?", Vol 29, No 2., Feb 2016, pp 10 - 16

Sharma, Sanjeev, Rathi, D., Rathi, A., and **Unhelkar**, B., Analytical Approach to Represent the Processing Power of Brain, *International Journal of Mobile & Adhoc Network*|Vol 4|issue 3|Aug. 2014, pp 311-316, ISSN (Online) 2231:6825 ISSN (Print)2249–202X, (site: [www.ifrsa.org](http://www.ifrsa.org))

Askarzai, W., Lan, Y & **Unhelkar**, B. (2014), Challenges of a virtual organisation: Empirical evidence from Australian SMEs',*Global Journal of Finance and Management*, Volume 6, Number 9 (2014), pp. 919-924

Lindley, D, Aynsley, B, Driver, M, Godfrey, R, Hart, R, Heinrich, G, **Unhelkar**, B and Wilkinson, K, 2013, '11. Educating for professionalism in ICT: Is learning ethics professional development?' in Weckert J and Lucas R (Eds), *Professionalism in the Information and Communication Technology Industry*, Centre for Applied Philosophy and Public Ethics (CAPPE), ANU E Press, Canberra. pp. 211-231.

**Unhelkar**, B., and Tiwary, A., Collaborative Intelligence. *Cutter IT Journal* edited by Dave Higgins' Business Intelligence 2010: Delivering the Goods or Standing Us Up?- Vol. 23, No. 6, June 2010

**Unhelkar**, B., and Murugesan, S., 2010, The Enterprise Mobile Applications Development Framework, *Computer.org/ITpro*, IEEE Computer Society publication, May/June 2010, pp 33-39

**Unhelkar**, B., and Trivedi, B., 2009b, Managing Environmental Compliance: A techno-business perspective, *SCIT (Symbiosis Centre for Information Technology) Journal*, ISSN 0974-5076, Sep, 2009, paper ID: JSCIT09\_015

Parmar, S.D., and **Unhelkar**, B., Performance Analysis of ICA Algorithms against Multiple-Sources Interference in Biomedical System, *International Journal of Recent Trends in Engineering* Vol. 2, No. 1, Nov 2009, © Academy Publisher, ACEEE

**Unhelkar**, B., and Murugesan, S., Accruing Business Value through the Adoption of Semantic Web Technologies, *Cutter IT Journal*, Vol. 22, No. 9, September 2009, Boston USA. Pp 24-30

**Unhelkar**, B., and Murugesan, S., Accruing Business Value through the Adoption of Semantic Web Technologies, *Cutter IT Journal*, Vol. 22, No. 9, September 2009, Boston USA. Pp 24-30

Cutter Benchmark Review (CBR): Creating and Applying Green IT Metrics and Measurement in Practice in *Green IT Metrics and Measurement: The Complex Side of Environmental Responsibility*, Vol. 9, No. 10, October 2009 (Ed. G. Piccoli), pp 10-17

Cutter Benchmark Review (CBR): *Mobile Technologies: Upcoming Opportunities and Challenges*, March, 2009

**Unhelkar**, B., and Dickens, Annukka, 2008, Lessons in Implementing “Green” Business Strategies with ICT, *Cutter IT Journal, Special issue on Can IT Go Green?*, Ed. S. Murugesan, Vol. 21, No. 2, February 2008, pp32-39

**Unhelkar**, B., and Agrawal, S., (2007), Managing mobile enterprise transitions: Outline of an MET framework, *ICFAI Journal of International Business (I J I N B)*, Publication of ICFAI (Institute of Chartered Financial Analysts of India), March, 2007.

**Unhelkar**, B., (2007), Beyond International Business Integration – Management Challenges in Collaborative Business Processes, *ICFAI Journal of International Business (I J I N B)*, Publication of ICFAI (Institute of Chartered Financial Analysts of India), May, 2007, Vol II, No. 2, pp 7-17;

Neely, M., and **Unhelkar**, B., The Role of a Collaborative Commerce Legal Framework in IT-Related Litigation, *Cutter IT Journal*, Vol 18 (No. 11), Edited by Ed Yourdon, Nov, 2005, pp 11-17

**Unhelkar**, B., Stop Playing Games!: Transactional Analysis and IT Leadership, *Cutter IT Journal*, Vol 18 (No. 4), April, 2005, pp 13-18

**Unhelkar**, B.,\_Transitioning to a Mobile Enterprise: A Three-Dimensional Framework, *Cutter IT Journal*, Vol 18 (No 8), August, 2005, pp 5 – 11; Lead Article.

**Unhelkar**, B., 2005, “eMystifying the UML 2.0” *Information Age*, publication of the Australian Computer Society, Oct/Nov 2005. pp 56-62

Murugesan, S. and **Unhelkar**, B., A Road Map for Successful ICT Innovation: Keys to Turning Great Ideas to Successful Implementations, *Cutter IT Journal*, Nov, 2004, Vol 17, No 11, pp 5-12

**Unhelkar**, B., 2003, “New Beginnings: Case study on setting up Indian chemical engineering business in Australia. Published in *Management Today, magazine of the Australian Institute of Management, partnership with BRW Media*, Jan-Feb, 2003

**Unhelkar**, B., 2001, DeMystifying the UML. *Information Age*, publication of the Australian Computer Society, Oct 2001. pp 56-61

**Unhelkar**, B., 1995, The MOSES Experience : A Case Study., *Object Magazine SIGS New York*, Vol 5, No 3, June 1995, pp 50-55

**Unhelkar B.**, and Lindblom, S., 1995, Software in derivatives-based risk management. *Asia Risk Manager, The journal of Asian Treasury and Risk Management*, Hong Kong, May 1995, pp 16-17

**Unhelkar, B.**, and Mamdapur, G., 1995 , Practical Aspects of Using a Methodology : A Road Map Approach, *Report on Object Analysis and Design (ROAD)*, Vol 2, No 2, July-August 1995, pp34-36, 54

### ***Cutter Executive Reports and Executive Updates***

*The Psychology of Agile-II: Group Dynamics and Organizational Adoption*, Cutter Executive Report, Oct 2015, Boston, USA. Vol 16, No 4 (16,000 Words)

*Agile Outsourcing: Cross-cultural, Cross-regional perspectives*, Cutter Executive Report, 2014, Agile Product & Project Management Practice, Cutter, Boston, USA. Vol 15, No 5

*The Psychology of Agile: Fundamentals beyond the Manifesto*, Cutter Executive Report, Dec 2013, Agile Product & Project Management Practice, Cutter, Boston, USA. Vol 14, No 5

*Agile in Infrastructure and Maintenance*, - Cutter Executive Update, 2014, 5 of 5, Vol. , No. , Agile Product & Project Management Practice, Boston, USA

*SMAC with Agile* - Cutter Executive Update, 2014, 4 of 5, Vol.15 , No.9 , Agile Product & Project Management Practice, Boston, USA

*Lean-Agile Tautology*, – Cutter Executive Update, 3 of 5, Vol. 15, No. 5, Agile Product & Project Management Practice, Boston, USA

*Agile as a Psychosocial Paradigm: CAMS Fundamentals Beyond the Manifesto* – Cutter Executive Update, 1 of 5, Vol. 14, No. 10, Agile Product & Project Management Practice, Boston, USA

*User Experience Analysis Framework: From Usability to Social Media Networks* – Cutter Executive Report (12,000+ words), April 2013, Data Insights and Social BI, Vol. 13, No. 3, Boston, USA.

*Design and Delivery of Business Analysis Training* – Cutter Executive Update – Vol. 15, No. 13, Business Technology Strategies practice (2500 words)

*Boosting Business Analysis Career Paths* – Cutter Executive Update – Vol 15, No. 15, Business Technology Strategies practice (2500 words)

*Beyond the Who of User Experience Analysis – Cutter Executive Update – Vol 15, No. 17, Business Technology Strategies practice (2500 words)*

*The Art of Questioning – Cutter Executive Update – Vol 15, No. 23, Business Technology Strategies practice (2500 words)*

*Avoiding Method Friction: A CAMS-based Perspective - Cutter Executive Report, 20 Aug 2012, Boston, USA. Vol 13, No 6, Agile Product and Project Management Practice*

*Agile Business Analysis – Part 1 of 2 - Business needs Exploration and Requirements modeling in Agile Projects , (12,000 words), Cutter Executive Report, May 2012, USA. Vol 13, No 2, Agile Product and Project Management Practice*

*Agile Business Analysis – Part 2 of 2 - Organizational Adoption with Centre of Excellence, (12,000 words), Cutter Executive Report, July 2012, USA. Vol 13, No 4, July 2012, Agile Product and Project Management Practice*

*Collaborative Business and Enterprise Agility, Cutter Executive Report Vol. 13, No. 9, Sep 2010 (9,000 words)*

*Knowledge Management in Perspective: The Dynamic Knowledge Synchronization Model, Cutter Executive Report, Vol. 10, No. 8, Aug 2010 (12,000 words)*

*Customer-Centric Business Strategy: Aligning Business and IT, Cutter Executive Report, 01 October 2010, (co-authored with Sherringham, K.) (9,000 words)*

*Achieving Business Benefits by Implementing Enterprise Risk Management, Cutter Executive Report, Vol. 7, No. 3, 01 July 2010, Enterprise Risk Management & Governance Service (co-authored with Sherringham, K.)*

*Agile in Practice: A Composite Approach, (16,000 words), Cutter Executive Report, Jan 2010, USA. Vol 11, No 1, Agile Product and Project Management Practice*

*Business Transformations: Framework and Process, (16,000 words), Cutter Executive Report, Nov, 2009, USA. Vol 12, No 10, Business-IT Strategies practice.*

*Environmentally Responsible Business Strategies for a Green Enterprise Transformation, Vol. 13, No. 2, Feb 2010, Business-IT strategies resource centre, Cutter Executive Report, Boston, USA*

*Mobile Enterprise Architecture (12,500 words, aimed at CxOs), Cutter Executive Report, April, 2008. Vol 11, No. 3, Enterprise Architecture practice, Boston, USA*

*Sourcing Methods: Philosophy and Approach*, (16,000 words), Cutter Executive Report, July, 2008, Vol 9., No 3, Sourcing and Vendor Relationship Practice

**Unhelkar, B.**, 2010, *Relating Business Analysis to Enterprise Architecture*, Enterprise Architecture service, Vol 13, No 4, May 2010, Cutter Executive Update

**Unhelkar, B.**, 2010, *Business Analysis in Agility.*, Cutter Exec Update, Agile Product & Project Management Advisory Service Executive Update Vol. 11, No. 18

**Unhelkar, B.**, 2010, *Business Analysis in the Information Age: Mapping to an SFIA Skill Set*. Business-IT Strategies Advisory Service, Executive Update Vol. 13, No. 7

**Unhelkar, B.**, 2011, *“Business Analysis Frameworks as basis for a BA profession”*, Business-IT Strategies Advisory Service, Executive Update Vol. 14, No. 2

### **Chapters in Books**

Unhelkar, B., 2017, , “Big Data Framework for Agile Business (BDFAB) as a basis for developing Holistic Strategies for adopting Big Data“ *Big Data and Visual Analytics*, Ed. Sang Suh and Thomas Anthony, Springer

Sherringham, K., and **Unhelkar, B.**, 2011, Chapter 5 “Strategic Business Trends in the Context of Green ICT” pp 65, Ed. B. Unhelkar, in *Handbook of Research in Green ICT: Technical, Business and Social Perspectives* IGI Global, Hershey, PA, USA. ISBN 978-1-61692-834-6 (hardcover) -- ISBN 978-1-61692-835-3 (ebook)

Tiwary, A., and **Unhelkar, B.**, 2011, Chapter 6 “Extending and Applying Business Intelligence and Customer Strategies for Green ICT”, pp 83 Ed. B. Unhelkar, in *Handbook of Research in Green ICT: Technical, Business and Social Perspectives* IGI Global, Hershey, PA, USA. ISBN 978-1-61692-834-6 (hardcover)

Deshpande, Y., and **Unhelkar, B.**, 2011, Chapter 8 “Information Systems for a Green Organisation” pp 116, Ed. B. Unhelkar, in *Handbook of Research in Green ICT: Technical, Business and Social Perspectives* IGI Global, Hershey, PA, USA. ISBN 978-1-61692-834-6 (hardcover)

Trivedi, B., and **Unhelkar, B.**, 2011, Chapter 15, “Role of Mobile Technologies in an Environmentally Responsible Business Strategy”, pp 233-242, Ed. B. Unhelkar, in *Handbook of Research in Green ICT: Technical, Business and Social Perspectives* IGI Global, Hershey, PA, USA. ISBN 978-1-61692-834-6 (hardcover)

Marmaridis, I., and **Unhelkar, B.**, 2011, Chapter 17 “Collaboration as a Key Enabler for Small and Medium Enterprises (SME) - Implementing Green ICT”, pp 256, Ed. B. Unhelkar, in *Handbook of Research in Green ICT: Technical, Business and Social Perspectives* IGI Global, Hershey, PA, USA. ISBN 978-1-61692-834-6 (hardcover)

Parmar, S., and **Unhelkar, B.**, 2011, Chapter 28, “Exploratory Analysis of Fossil-Fuel CO2 Emissions Time Series Using Independent Component Analysis, pp 385, Ed. B. Unhelkar, in *Handbook of Research in Green ICT: Technical, Business and Social Perspectives* IGI Global, Hershey, PA, USA. ISBN 978-1-61692-834-6 (hardcover)

**Unhelkar, B.**, and Lan, Y., 2011, Chapter 38 “Integrating Green ICT in a Supply Chain Management System”, pp 523, Ed. B. Unhelkar, in *Handbook of Research in Green ICT: Technical, Business and Social Perspectives* IGI Global, Hershey, PA, USA. ISBN 978-1-61692-834-6 (hardcover) -- ISBN 978-1-61692-835-3 (ebook)

**Unhelkar, B.**, 2012, “Practice of Green IT Strategies “, Chapter 8 in *Harnessing Green IT: Principles and Practices*, (Ed. San Murugesan and Gangaradharan, G., R.), Wiley

**Unhelkar, B.**, 2010, “Chapter 9 - Managing Mobile Business” in *The Next Wave of Technologies: Opportunity From Chaos*, (Ed. Phil Simon), John Wiley and Sons, Feb, 2010, ISBN 978-0470587508

Wu, Ming-Chien (Mindy), and **Unhelkar, B.**, (2010) “Mobile Service Oriented Architecture (MSOA) for Businesses in the Web 2.0 Era” Chapter in *Handbook of Research on Web 2.0, 3.0, and X.0: Technologies, Business, and Social Applications*, Ed. San Murugesan, IGI Global, Hershey & New York, USA, 2010, ISBN: 978-1-60566-384-5

Trivedi, B., and **Unhelkar, B.**, (2010) “Extending and Applying Web 2.0 and Beyond for Environmental Intelligence” Chapter in *Handbook of Research on Web 2.0, 3.0, and X.0: Technologies, Business, and Social Applications*, Ed. San Murugesan, IGI Global, Hershey & New York, USA, 2010, ISBN: 978-1-60566-384-5

**Unhelkar, B.**, 2009, “Chapter VI Creation of a Process Framework for Transitioning to a Mobile Enterprise”, *Handbook of Research in Mobile Business: Technical, Methodological, and Social Perspectives. Second Edition*, Ed. B. Unhelkar, IGI Global, Hershey & New York, USA, ISBN 978-1-60566-156-8

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## **Workshops**

Special guest and Keynote "The Psychology of Agile" followed by a 1-day workshop on "Composite Agile Methods and Strategy - CAMS" based on my Agile book; at the Cutter Conference, Mexico City, Mexico. 7-8-9 September, 2016.

"Big Data Technologies & Business Strategies: Impact on Individual, Business and Government", 1-2 May 2016, *Dev Sanskriti University, Haridwar, India.*

Key note address on "Big Data Strategies" ,May 2016, *Dev Sanskriti University, Haridwar, India.*

## **Conference Proceedings**

IIBAconference 7<sup>th</sup>, Miami, FL, USA,  
Ngo, F., and Unhelkar, B.,  
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Agarwal, A., and **Unhelkar, B.** (2016), "Context Driven Optimal Granularity Level (OGL) in Big Data Analytics", in *Proceedings of Society for Design and Process Science Conference, SDPS2016*, 4-6 Dec, 2016, Orlando, FL, USA

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Rajbion, L., **Unhelkar, B.**, and Agarwal, A., " Incorporating Core Aspects Of Big Data Skills And Capabilities In Educational And Training Courses", *Proceedings of the SDPS 2016 conference, Orlando, USA*

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Special guest and Key note on "Greening of Environment, Carbon emissions and the role of IT" 4 May 2016, *Dev Sanskriti University, Haridwar, India.*

Special guest and key note speaker: "Transactional Analysis in Practice: Management, Leadership and Existential perspectives", Samashti Institute of Integrated Learning, Program - Gyananjali to Padmanaabh Saheb, 22nd May 2016. IG Patel Hall, The M.S. University of Baroda, Gujarat, India.

Special guest and Key note speaker at the inaugural event of the Management week of Baroda Management Association (BMA), Vadodara, India. 23rd May 2016. Topic "Agile : Management and Leadership".

Special guest and speaker: "Impact of Information Technology on Society and our Daily Lives" Rotary Club of South Mumbai, combined meeting, Mumbai, India. 26<sup>th</sup> May 2016. This was a social presentation but under the auspices of USFSM

Invited Speaker: Data Science Meetup Group, Sydney, Australia. "Big Data Framework for Agile Business v2.0", 15th July, 2016, Friday.

Research Presentation to IT Faculty, University of Wollongong, Wollongong, Australia. "Big Data Strategies for Agile Business", 28th July, 2016. Special invitation by Director LS, Prof. (Dr) Aditya Ghose

Research Seminar Series at Western Sydney University: "Big Data Strategies for AGile Business: Beyond Technologies and Analytics", 10th August, 2016. WSU, Parramatta, Sydney, Australia. Host: Prof. Yi-Chen Lan, Assist. Vice Chancellor.

Invited Speaker at CBIG (Chicago based consulting group) in Sydney, Australia "Consulting opportunities in the world of Big Data" 25th Aug, 2016. Host - Anthony Tocker

Invited Speaker, Techbyte Luncheon, Suncoast Technology Forum, Sarasota. "Big Data Strategies for Agile Business: Beyond Technologies and Analytics", 20th September, 2016.

Invited Speaker, Project Management Institute (PMI), Tampa chapter, Sarasota meeting. "Big Data Strategies for Agile Business: Beyond Technologies and Analytics", 18th Oct 2016. host Bill Nemanick.

Speaker, Rick's Research Café series, USFSM, "SMAC Stack and its role in Big Data Framework", 5th Oct, 2016.

Presenter, Cutter Webinar "Big Data Strategies for Agile Business: Beyond Hadoop and Net Promoter Score", 26<sup>th</sup> October, 2016.

Presented tutorial over two half days titled "Big Data Strategies for Agile Framework" at the *SDPSnet Conference, Dallas (1-5 Nov, 2015)*

Lan, Y., And **Unhelkar, B.**, “Sharing Big Data Driven Insights Using Cloud-Based Knowledge Management (Ckm) Platform: A Case Study For Small And Medium Enterprises (Smes) In Taiwan”, SDPSnet conference (1-5 Nov, 2015. Dallas, TX). of2015 Society for Design and Process Science. ([www.sdpsnet.org](http://www.sdpsnet.org))

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**Unhelkar, B.**, “Big Data in Agile Business: Strategies for application of SMAC”, stream A101: Becoming a Data Driven Enterprise, *Data Summit*, New York, 12-14 May 2014; also repeated as a Webinar on 17<sup>th</sup> July 2014 (delivered from KL, Malaysia)

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**Unhelkar, B.**, “Describing a Business Analyst job family, outlining BA career path based on competency Assessments” *\_Business Analyst World Conference*, Sydney (25<sup>th</sup> June, 2012), Perth (14<sup>th</sup> June, 2013), Melbourne (18<sup>th</sup> June, 2013)

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Arunatileka, D. and **Unhelkar**, B., “Mobile Technologies, providing new possibilities in Customer Relationship Management”, IITC, Sri Lanka, Dec 2003

Unhelkar, B., 2003, “Understanding the Impact of Cultural Issues in Global e-Business Alliances”, *We-B Conference*, ([www.we-bcentre.com](http://www.we-bcentre.com); with Edith Cowan University), Perth, 24-25 Nov, 2003.

Unhelkar, B., 2003, “Understanding Collaborations and Clusters in the e-Business World”, *We-B Conference*, ([www.we-bcentre.com](http://www.we-bcentre.com); with Edith Cowan University), Perth, 24-25 Nov, 2003.

Unhelkar, B., & Elliott, Rodney, 2003, "The Role of Web Services in e-Business and Globalization", **We-B Conference**, ([www.we-bcentre.com](http://www.we-bcentre.com); with Edith Cowan University), Perth, 24-25 Nov, 2003.

Nand, Sashi and Unhelkar, B., 2003, "Progress report on the development of Investigations Theory of PKI and its Application to Australian Information Systems", **Information Security Conference**, ([www.we-bcentre.com](http://www.we-bcentre.com); with Edith Cowan University), Perth, 24<sup>th</sup> November, 2003.

Elliott, R. and **Unhelkar**, B., 2003, "The Crucial Role of Web Services based Applications in Globalization", **Open Standards (OASIS) Conference**, Sydney, 1-3 Oct, 2003.

Unhelkar, B., 2003, "Critical Issues in Modeling WSDLs with UML", **Open Standards (OASIS) Conference**, Sydney, 1-3 Oct, 2003.

Unhelkar, B., 2003, "Estimates and Metrics for UML-based Projects", Presented and Published in *Proceedings of ACOSM2003 Conference*, Sydney, 3-5 Sep, 2003

Unhelkar, B., 2003, "Application of UML in improving Quality of Web Services", Presented at **OMG's 2nd Workshop on Web services**, 22-25 April, 2003. Philadelphia, PA, USA ([www.omg.org](http://www.omg.org))

Unhelkar, B., 2001 "Beyond Traditional Boundaries" Panel discussion on e-Governance, **IPAA conference**, Sydney, Dec, 2001

Unhelkar, B., 2001 "Enhancing Your Software Development Process with the Unified Modelling Language", Two-day seminar held in Mumbai, India, by **Computer Society of India**, 25-26 June, 2001 (Sole Presenter over two days)

Unhelkar, 2000 "Component-based Development and the Internet: Process and Methodology issues", **IDPT conference, Dallas**, TX, June 2000; Proceedings published in the USA by ©2000 Society for Design and Process Science. ([www.sdpsnet.org](http://www.sdpsnet.org))

Unhelkar, 2000, "e-Services", Joint Keynote delivered at **TOOLS 2001 Conference, Sydney**, Nov 2000

Unhelkar, B., 1998 "Development of a Financial Markets Analytical Product using the OPEN Methodological Approach", **ASWEC'98** – Australian Software Engineering Conference, IREE Society, 9-13 Nov, 1998, Adelaide, South Australia.

Unhelkar, B., 1996, "Getting the user interface right through collaborative usability inspections for software systems", *Proceedings of IT Project Management by AIC conferences*, Auckland, New Zealand, 15-17 April 1996 (also Chaired the day)

Unhelkar, B., 1996, "IT Project Management in Object Orientation" *Proceedings of IT Project Management by AIC conferences*, Auckland, **New Zealand**, 15-17 April 1996

Unhelkar, B., 1995, "Development of currency options, an Object Oriented software for financial markets, using MOSES : A Case Study", *Proceedings of Object Orientation by AIC conferences*, Johannesburg, **South Africa**, 3-5 July, 1995 (also Chaired the day)

Unhelkar, B., 1995, "Managing objects, Managing people: a peopleware perspective of Object Oriented development", *Proceedings of Object Orientation by AIC conferences*, Johannesburg, **South Africa**, 3-5 July, 1995

Unhelkar, B., 1995, "Object-oriented Testing : State of the Art", *Proceedings of ObjectWorld'95 conference*, Sydney, 1-4 August 1995

Unhelkar, B., 1995, "Developing the vital leadership skills required of an IT project manager", *Proceedings of IT Project Management by AIC conferences*, Sydney, 5-6 December 1995

Unhelkar, B., 1995, "Development of a financial markets analytical product: A MOSES case study", *Proceedings of OOER'95: Object-Oriented and Entity-Relationship Modeling, 14th International Conference*, Goldcoast, Australia, Michael Papazoglou (Ed.), 13-15 December 1995, Springer-Verlag, Berlin, pp441-443

Unhelkar, B., and Mamdapur, G., 1995, "Role of OO Metrics in managing the development of a financial markets analytical product: A Case study", *Proceedings of ACOSM'95 Second Australian Conference on Software Metrics*, Sydney, Australia, Ross Jeffery (Ed.), Australian Software Metrics Association, 22-24 November 1995, pp 168-177

Unhelkar, B., 1994, "Development of a Commercial Software Solution using an OO Methodology: A Case Study", *Proceedings of ObjectWorld'94 conference*, Sydney, 13-16 September 1994

Unhelkar, B., and Henderson-Sellers, B., 1994, "ODBMS Considerations in the Granularity of a Reusable OO Design", *Proceedings of TOOLS 15 Technology of Object Oriented Languages and Systems, Fifteenth International conference*, Christine Mingins and Bertrand Meyer (Eds.), Melbourne, November 1994, Prentice-Hall, pp 229-234

Unhelkar, B., and Henderson-Sellers, B., 1993, "The Role of Granularity in the Reuse of Object-oriented Systems", *Proceedings of ACOSM'93 First Australian Conference on Software Metrics*, Sydney, Australia, June Verner (Ed.), Australian Software Metrics Association, 18-19 November 1993, pp 51-66

### **Other Publications, Interviews, Presentations**

Unhelkar, B., 2007, "Management Challenges in Collaborative Business", presented at *Symbiosis Institute of Management, Pune; Indira Institute of Management, Pune, Feb 2007;* and *Baroda Management Association, April, 2007*

Unhelkar, B., 2007, Keynote address: "Application of Knowledge Management in the Knowledge Economy: Manufacturing, Services & Governance", NIRMA University, Ahmedabad, India; 17 Feb.

Unhelkar, B., 2003, "Modeling Web Services with UML", *Presented at Centre for Object Technology, Applications and Research, COTAR, University of Technology, Sydney, 9 Sep, 2003*

Unhelkar, B., 2003, "Games IT People Play" *Information Age*, publication of the Australian Computer Society, June/July, 2003, pp25-29

Unhelkar, B., 2003 "Role of UML in Creating Web-Services Based Quality Applications", Presented at the **Software Quality Association** of NSW, 2 June, 2003

Unhelkar, B., 2003, "Sociological Dimension of IT Project Management", Presented at Project Management SIG of **Australian Computer Society**, 19 Mar, 2003

Unhelkar, B., 2002 "Multiculturalism and its Impact on creating a Peaceful and Prosperous Global village" **Australia-India Seminar**, November, 7-8, 2002, University of Canberra, Published in Conference proceedings, Canberra

Unhelkar, B., 2002 "Quality Assurance for e-Transformation of Small and Medium Enterprises (SME)", Presented at the **Software Quality Association** of NSW, 3 June, 2002

Unhelkar, B., 2002, "Vertical is not the only Direction" *Information Age*, publication of the Australian Computer Society, Aug-Sep, 2002. pp 20-23

Unhelkar, B., 1995, "Objects please financial developers", *Interview published in Computerworld*, by Keith Power, 6 October 1995, Vol 18, No 14, pp 1, 38

Unhelkar, B., 1994, "Success Was the Only Option: OO Development at Dow Jones Telerate", *Interview published in Informatics*, an Australian Computer Society publication, September 1994, Vol 2, No 8, pp 31-33

Unhelkar, B. and Baster, G., 1994, "Choose to Avoid the OOPS Factor", Published in **The Australian**, Tuesday, 12 July '94

Unhelkar, B., 2001 “Communication in Software Development: Applying the UML”  
Presented at the joint meeting of the **ACS Hunter NewCastle** Branch & HunterTech  
Consortium, 20th Nov, 2001

Unhelkar, B., 2001 “Quality Assurance for UML-based Projects”, Presented at the **Software  
Quality Association** of NSW, 3 Sep, 2001

## **Workshops and Tutorials**

Unhelkar, B., 2009, "Emerging Technologies", SVIT Conference, Vasad, Gujarat, India.

Unhelkar, B., 2008, "Applying Service Oriented Architecture (SOA) in order to create and integrate Application/Services over Internet/IMS", Half-day invited tutorial at IEEE's 2nd International Conference on Internet Multimedia Services Architecture and Applications (IMSAA-08), Bengaluru, India, Dec 2008.

Unhelkar, B., 2008, "Future of Telecom Industry in Asia/World", Rotary Club of Colombo Central, Sri Lanka, July 2008

Unhelkar, B., 2007, "Outsource: Global Enterprise Advantage", joint presentation of a half-day seminar at Rensselaer Polytechnic Inst., 19 June, 2007.

Unhelkar, B., 2005, "Demystifying the UML 2.0", Virtual Education across the Nation, Australian Computer Society series.

Unhelkar, B., 2006, "Health Informatics" Virtual Education across the Nation, Australian Computer Society series, 18 April, 2006.

Unhelkar, B., 2003, "Quality Assurance for UML-based Projects: Process and Techniques" half-day Tutorial at Integrated Design and Process Technology, **IDPT-2003**, conference, Austin, Texas, 3-5 Dec, 2003. (rescheduled from original conference in Beijing, China, 16-20 June, 2003).

Serour, M., **Unhelkar**, B., and Henderson-Sellers, B., 2003, "Planning and managing the organizational transition to E-Business", Workshop at **IBIMO3 conferences**, Cairo, Egypt, 13-15 December, 2003.

Unhelkar, B., 2002, "Demystifying the UML" 1-day Seminar series held through Australian Computer Society, April, 2002

Unhelkar, B., 2002, "Quality Assurance and Testing for UML-based Projects", Seminar series held through QAI India in three cities: Bangalore, Delhi, Mumbai, Jan 2002, two-days each.

Unhelkar, B., 2001 "Quality Assurance for UML-based Projects: Process and Techniques", **UML2001 Conference**, Toronto, Canada, Oct 2001, Workshop presentation

Unhelkar, 2000 Half-day tutorial "OPEN-ing up the UML", **TOOLS, Santa Barbara**, USA, 2000.

Unhelkar, 1999 Full-day tutorial "OPENing with UML: Combining Process and Notations for Component-based Practical Software Development", **TOOLS, Nanjing, China**, 1999.



Unhelkar, B., 1995, "Effect of granularity of OO design on modeling an enterprise (workshop)", Presented at **OOPSLA'95** conference, Workshop No 8 on Modeling the Enterprise with Objects, Austin, Texas, USA, 15-19 October, 1995

Unhelkar, B., 1995, "Development of Telerate Currency Options using MOSES: A case study (tutorial)", Presented at **OOPSLA'95** conference, Tutorial No 51, Merging OOAD Methodologies: COMMA project and its first results, Austin, Texas, USA, 15-19 October, 1995

## TEACHING

- Designer and Developer IT program/course: Research in Big Data strategies; Agile processes; Introducing *NoSQL*, *Hadoop/Spark*, and '*R*' programming courses through a new Big Data concentration in USF-SM.
- Designer, Developer and Presenter of five courses/subjects within the *M.Sc. in Software Technologies* program for MS University (India) - (Software Modeling with UML; Object Oriented Analysis and Design; Software Project Management, Requirements Engineering and IT Risk Management)
- Designer, Developer and Presenter of subjects: Big Data Management and Business Informatics; and Management Information Systems at the Great Lakes Institute of Management, Chennai, India. Post Graduate Program in Management (PGPM) and Post Graduate Executive MBA program (PGXPM); multiple runs of the subjects)
- Designed, Developed and Delivered online Business Process Management (at both Under Graduate and Post Graduate levels) for the Australian Catholic University in Sydney
- Leadership and initiatives setting up alliances between the industry and the University of Western Sydney (UWS), leading research projects that benefited my PhD students.
- Head of Program, Bachelor of Computing degree. Significant leadership role in organizing the course including obtaining Australian Computer Society's professional accreditation, forming articulation arrangements with TAFE and ACS DIT courses and managing the overall curriculum, units, teaching and support staff and admissions.
- Teaching and research supervision in the areas of Big Data, Business Analysis and Critical Thinking, Business Process Reengineering, Process & Quality Assurance, Object-oriented Software Development, IT Project Management Collaborative Business (using Web Services and going beyond E-Business), Mobile Business Strategic Application, Innovation and Entrepreneurship, Green IT and Social Aspect of IT.
- Distance Education Teaching of the New Technology Alignment (NTA) of the Computer Professional Education Program of the Australian Computer Society (using moodle.org); Implemented new and innovative ideas for providing distance education. Designed, developed and delivered Business Analysis (BAS) for the same program. Both courses have successfully run over 4 years.

- External examiner for the Australian Computer Society's DIT (Dip. In Information Tech.) in the subjects of: Object Oriented Software Development, Computer Organization and Computer Communications. Mentor and tutor for CPe program.
- Team Leader of System Analysis and Design group at UWS, with approx. 10 academics; Administration and management of the group.
- Granted special research status for exceptional research, publications and higher degree completions for the tri-annums 2005-2007; and 2006-2008.
- Further development of the School of Computing's relationship with Nanjing University of TCM, promoted and delivered courses in Nanjing for six semesters including undergraduate courses in Object Oriented Analysis; and Object Oriented Design.
- Awarded Professional Development leave ('sabbatical') from Feb to July, 2007 for 22 weeks to conduct joint research with Gujarat University in India and with Rensselaer Polytechnic Institute in the USA, Hartford Graduate Campus. Research conducted in the area of strategic use of mobile technologies and architecture in business and application of the process-discipline for quality of mobile business processes. Project titled "Mobile Enterprise Transitions". Three papers and one book published as a result of this sabbatical.
- Excellence in Research leadership by numerous current joint publications and presentations with PhD and Masters Research students as well as various interested staff members at all levels within the school.
- Setting up Mobile Internet Research and Applications Group (MIRAG), at UWS, with industry liaison. Promoted research in my own areas of interest including Mobile Technologies and Web services. MIRAG became a sub-group within the AeIMS research group within the School of Computing.
- Re-creation of complete course material for two crucial units of Object Oriented Analysis and Object Oriented Design. Coordinated and delivered both units in Sydney and in Nanjing, China. Course materials published as teaching-learning books by Thomson publishing.
- Associate of the University of Technology, Sydney; Created original course contents and lectured in Global Information Systems, redesigned and lectured in Object Oriented Modeling (semester 1) and Object Oriented Process (semester 2); Supervised Masters projects,
- Member of the ICT Course Advisory Committee, Box Hill Institute of TAFE, Melbourne, Australia

### ***PhD Completions: (7)***

*The effects of Virtual Management on employee behavior in Australian context* 2015  
Walied Askarzai, University of Western Sydney, NSW, Australia

*Environmental Intelligence and its Impact on Collaborative Business* 2014  
B. Trivedi DD University, Nadiad, Gujarat, India

<i>Development of a Composite Application Software Development Process Framework</i>	2010
Dr. M. Maharmeh, University of Western Sydney	
<i>Extending Enterprise Architecture with Mobility</i>	2011
Ming Chein Wu, University of Western Sydney	
<i>Synchronising Subjective Knowledge and Knowledge Management Systems In Organisations</i>	2008
Sai Kiran Lakkaraju, University of Western Sydney	
<i>Collaborative Business Process Engineering (CBPE) Across Multiple Organisations</i>	2008
Abbass Ghanbary, University of Western Sydney	
<i>Mobility As A Strategic Tool In Competitive Delivery Of Business Services</i>	2006
Dinesh Arunatileka, University of Western Sydney	

### **PhD Current Co-Supervision**

*Hex-elementization in setting the context for Big Data analytics*, Girish Nair, Western Sydney University

### **PhD Examinations (8):**

- *A Framework for Semantic Effect Annotation of Business Process Models* 2017  
by Kerry G. HINGE, University of Wollongong, Australia
- A Secure and Lightweight Hierarchical Mobile Ad-hoc Network (MANET)* 2016  
by Mr. Adarsh Kumar, CSE, Jaypee Institute of Information Technology, A-10, Sector-62, Noida-201307, Uttar Pradesh, India.
- Approaches for Discovery, Selection and Composition for Heterogeneous Web services using Semantic Web* 2016  
by Mr Kiritkumar Jayantilal Modi - 10EXTPHDE32, Technology & Engineering, NIRMA University, Ahmedabad – 382481, India.
- Boundary Practice Perspective on the Roles and Practices of Business Analysts* 2012  
by Rajiv Vashist, Swinburne University, Melbourne, VIC. Australia.
- Design, Development and Implementation of Innovative & Pervasive Applications using Emerging Communication Technologies for Highly Mobile Organization* 2011

by Mr. Keyurkumar Jayantibhai Patel, , University of Southern Queensland, Faculty of Engineering and Surveying.

*Towards A Ubiquitous Government: The Move to Mobile Services As Perceived By The End User* 2008

by Mr. Tarek El-Kiki, University of Technology, Sydney.

*Mobile Business: A Framework and Successful strategies for the Transformation Process, 2007*  
by Mr Heng-Sheng Tsai;, University of Southern Queensland.

*The Effect of Intra Organizational Factors on the Organisational Transition to Object Technology: An Empirical Study in Planning and Managing the Adoption and Diffusion of Object-Oriented Process* 2006

by Mr. Magdy Serour, University of Technology, Sydney.

### ***Courses Taught (Graduate)***

- Software Modeling with UML
- Object Oriented Analysis and Design
- Software Project Management
- Requirements Engineering
- IT Risk Management
- Business Informatics and Big Data Management
- Management Information Systems
- New Technology Alignment (NTA)
- Business Analysis (BAS)
- Object Oriented Analysis
- Object Oriented Design
- Agile Software Modeling
- Agile Method Engineering
- Global Information Systems
- Business Process Modeling (BPM- ISYS628)
- Business Analysis (BA- ISYS638);,

### ***Courses Taught (Undergraduate)***

- IT Program Design (UML)
- Mobile Applications Development
- Business Process Modeling
- Business Analysis
- System Analysis and Design

- Object Oriented Analysis
- Object Oriented Design
- Professional Development
- Social Aspect of IT
- Business Process Reengineering
- IT Project Management
- IT Project Implementation
- Advanced Topics in E-Business
- Computing Project
- Introduction to Analysis and Design
- Object Oriented Software Development
- Computer Organization
- Computer Communications.

### **SERVICE (DEPARTMENT, UNIVERSITY, COMMUNITY)**

- Vice Chair of Academic Programs Committee (APC) responsible for reviewing new and changed courses and programs at USFSM
- Member of the Faculty Professional Development Committee (FPDC) at USFSM for disbursement of funds for faculty development
- Head of Program, Bachelor of Computing degree at University of Western Sydney—managing 10 academics and their courses, teaching and workload
- Reviewer of paper: “Causes, types and likely victims of cybercrimes in selected higher institutions, south-south, Nigeria”, *The International Journal of Cyber Criminology* 2016
- Guest Editor (by invitation), Journal of Integrated Design and Process Science (JIDPS), special issue on Big Data, March 2017
- Guest Editor (by invitation), Cutter IT Journal, IoT issue (April, 2016) – Special issue on *IoT Data Management and Analytics: Realizing Value from Connected Devices*, Vol 29, No 4
- Reviewed “Integrating Augmented Reality Services for the Masses: Geotagged POI Transformation Platform” (for the Journal of Hospitality and Tourism Technology; Jan 2016)
- Reviewer of 5 papers at *SDPSnet Conference, Dallas (1-5 Nov, 2015)*
- Keynote Panelist at the *International Interdisciplinary Business-Economics Advancement Conference (IIBAconference.org, 2015)*, November 16-21, 2015; Also chaired two sessions at the conference;
- *Rotary*: Rotary Club of Sarasota Sunrise (Transferred Member), Florida, USA – Dist# 6960; Paul Harris Fellow (2008-09; 2015 – Sapphire pin), Rotary International; Assistant Governor (2012-13; 2013-14; City North Zone, Dist# 9685, Australia), Past President of Rotary Club of St. Ives in Sydney (2011-12), Vocational and Membership director, Rotary Club of St. Ives, Sydney. Sponsor of the National Youth Science Forum (NYSF) for two year 11 students through the Rotary Club of St. Ives, in Sydney. Participation in fund raising for Polio eradication in India.

- Project Management Institute (PMI) Tampa Bay Chapter, Sarasota Dinner Meeting. Guest Presentation “Composite Agile Method and Strategy: A Balancing Act”, By B. Unhelkar 20<sup>th</sup> Oct, 2015 at the Meadows Country Club
- Chair for Search Committee for two Assistant Professors (IT, Tenured track) positions – activities included review of CVs, skype and phone interviews, shortlisting candidates and campus interviews
- Member of Search Committee for an ISDS position (Assistant or Associate Professors) – activities included review of CVs, skype and phone interviews, shortlisting candidates and campus interviews
- Invitation, hosting and organizing a research talk by Prof. Shagufa Kapadia and Dr. Jigisha Gala (both from the MS University of Baroda, Gujarat, INDIA) on 19th Oct, 2015 (11am onwards). Titled “Life Goals and Life Satisfactions: Investigations into the Life styles Emerging Adults (Indian context)”
- Invitation and Hosting of Deputy Pro-Vice Chancellor (International) Prof. Yi-Chen Lan from the Western Sydney University (Australia). Visit lasted 3 weeks and included: 28th Oct’16, Wed, 9:30 am to 11:30 am, open forum talk in Selby around Internationalizing education; 28th Oct’16, Wed. 2 pm. Meeting with Prof. Terry Osborne on International cooperation; 29th Oct’16, Thu, 10am - 12 pm - Q&A with IT team and College of Business;
- Director of Mentoring activities (business creation) at The Indus Entrepreneur (TIE) organization in Sydney (with headquarters in the Bay area, San Francisco, CA). This work dealt with helping small to medium organizations commercialize their ideas successfully.
- Toured India as a senior academic representing UWS, with the IDP exhibition. Interviewed around 200 students for Masters and PhDs, in 7 cities in India. Managed to ‘realize’ around 60 enrollments amounting to substantial overseas business for the school. Used that role to provide positive advise to students from India enquiring about higher education in Australia in years 2008 and 2009.
- Participation in numerous Recruitment Panels at UWS for both Academic as well as IT support roles. Currently recruiting for two Assistant Professors in IT
- Setting up alliances of UWS with organizations and interested parties in India (MS University of Baroda, NIRMA University in Ahmedabad, Iopsis Corporation, SVIT Vasad, etc.) and worked to foster relationship with Nanjing Univ. of Traditional Chinese Medicine (NUTCM) in Nanjing, China, for their IT course.
- Programme Committee active membership/leadership and Editor of Proceedings for International Management and Business conference, Sydney, 2006 (IMB)
- Member of the Branch Executive Committee (BEC, 2003-2005) of the Australian Computer Society in New South Wales
- Regular participation in efforts to attract better/greater students to the undergraduate courses through visits to schools, talks and presentations at events, and providing career guidance to school completing students
- Regular appearance on Indian community radio (SBS and Sydney 2000FM) to discuss contemporary issues of students coming into Australia and studying

## STATEMENT OF TEACHING

My teaching career is founded on two guiding principles which enable me to provide leadership and direction to colleagues and students. The first is bring knowledge to life because teaching can only be realized when students can apply contents to practice. Regardless of topic – project management, object oriented software engineering, quality assurance or Big Data strategies – my instruction is filled with practical, real-life examples that are derived from two decades of my own experience in the workforce.

The second principle is student-center learning. I employ group-based learning methods to support this principle. In addition, students are encouraged to work on solving case study problems in the classroom, while I provide guidance and answer questions. To solidify the knowledge, students use presentations to illustrate how they would use learned concepts in a real-world example. I incorporate student centered activities into all classes and it has been supported by the results produced. Group activity involves a ‘real life’ problem during the semester in a coordinated and supervised laboratory or tutorial session. Subsequently, following the philosophy of “what is expressed is impressed” the groups present their work resulting in a thorough understanding of the subject matter that can be immediately put in practice

My teaching style includes succinct presentations, example-based teaching, practical discussions and demonstrations, experience-based case studies running consistently and regularly throughout the course material and hands-on problem solving. The teaching techniques and aids I utilize are video-audio and projection aids, white-boards and butcher-papers for diagramming and explanations, computer-based tools for on-the-spot modeling and workshop-type “walk-throughs” with the participants. I update my presentation and course materials with current and appropriate case studies on a semester basis, derived out of my own consulting and training work in the industry.

Questions and issues raised during my course presentations are always answered in detail and with a judicious combination of my knowledge *and* practical experience – to the total satisfaction of the student. While my course deliveries are based on well prepared course material, books, journals and case studies, these deliveries/presentations are also continuously tempered and fine-tuned to suit the requirements and level of understanding of the participants. This dynamic variation to the teaching activity comes from my understanding of ‘student-centered learning’. Formal student feedback earlier at the University of Western Sydney (UWS), and now during casual evening teaching at UTS has validated this student-centered, example-based approach to teaching-learning. Furthermore, this approach helped me deliver complex software engineering subjects (Object oriented Analysis; and Object oriented Design) to a large group of students (125+) in Nanjing, China. This delivery was repeated 6 times overall, and had a combination of intense face-to-face two-week delivery followed by tutoring and mentoring in a distance-learning format. Particularly in Nanjing, China, where the language of communication as well as the cultural gaps provided additional and major challenges, my teaching style resulted in successful outcomes as indicated through anonymous student surveys.

During my academic sojourn, I have developed detailed curriculum for both undergraduate and graduate units. Some units were fully re-designed, developed and delivered with my own initiative including “Business Process Re-engineering”, “Global Information Systems: applying IT to global business”, “Project Management: with Innovation” and “Object oriented Analysis/Design”. A complete new concentration around “Big Data” has been included in the Program at USFSM. The lectures, workshops, exercises and case studies incorporated in these subjects were primarily based on my practical experience as well as my own literature review and research work. Some of these teaching materials have also been published in book form by reputed publishers in both Australia and the USA. Feedback from past and current students, through official surveys as well as informal emails, provide positive proof that my students have received internationally competitive and world-class material and education in the courses I have taught.



In addition to the academic curriculum development and delivery, I created a number of industrial training courses in the areas of Mobile Business/Computing, Business Analysis, Agile Project Management, Big Data Strategies, Service-Oriented Architectures (especially for Telcos), Innovation in IT, Project Management, Business Process Re-engineering, Outsourcing as Strategic Management, Processes (both Electronic Business as well as Software processes – the later focused on CMM – Capability Maturity Model), Quality, Metrics and Software Modeling. The practical hands-on material for these courses was derived from my earlier work as a senior product development manager at Dow Jones in Sydney – wherein I was responsible for multi-million dollar budgets for development of large software systems including Currency Options, TELerate ANalytics, Portfolio-Risk Management and Trading systems. After completing my work with Dow Jones, I founded my consulting and training company, *MethodScience.com*. The training courses I developed have been delivered globally in varying public and in-house formats A seminar series titled “Mobile Business” that dealt with application and management of mobile technologies in business and based on *Handbook of Research in Mobile Business: Technical, Methodological and Social Perspectives* (Unhelkar, B., IGI Global, Hershey, PA, 2006) was delivered across *all* major cities of Australia under the auspices of the Australian Computer Society (ACS) (Education across the Nation program).

**End of Statement of Teaching**

## STATEMENT OF RESEARCH

Throughout my research career, I have been deeply interested in the collaborative approach to problem solving. For example, during my own PhD, while investigating the effect of granularity of designs on modeling an enterprise and the corresponding risk management strategies, my emphasis was on inter-disciplinary impact of these models on quality and people. The systemic research carried out was further validated in practice at Dow Jones Markets, where decision making through financial risk management systems was a crucial part of systems support. My research, together with its action research based validation in a large organization provided a solid foundation for launching my own research initiatives as an academic, including formation of a research centre and supervision of numerous PhD students. These components include discussions on Big Data strategies, mobile applications development, systems approach to modeling, granularity of designs and their impact on risk management, enhancement of quality through modeling of business and systems processes, formal quality assurance and process maturity, strategic planning for decision support and enterprise modeling. The discipline of project management with 'operations research', including scheduling of activities and tasks, and the application to management have been researched as well as applied by me in practice. The combination of practical industrial experience with formal and robust research has paved way for the research work that I undertook and supervised at UWS.

The research activities I have undertaken include the effect of Information and Communications Technologies (ICT) – particularly Service Oriented Architecture (SOA) - on globalization, development of Big Data strategies for Agile business, strategic use of mobile technologies in mobile business and their impact on people management and supply chain systems, investigation into strategic management of enterprises in a global era, processes and models for both business and systems development, environmental intelligence and the use of ICT in green enterprise initiatives, systemic approach to collaborative web services and their resultant business integration for global business advantage. This aforementioned research work has been substantially published through books and numerous journal papers

and refereed conference presentations. As is evident from the attached list of publications, some of these books are highly relevant to the research and scholarship aspect of the position.

My research work and supervision was carried out under the umbrella of AeIMS research group – with my particular focus under *MIRAG or Mobile Internet Research & Applications Group*. I carried out my research supervision under this sub-group. After moving to Sarasota, USA, I am now carrying out co-supervision for two PhD students in Sydney, Australia. These students are researching Big Data strategies and framework, and Hex-elementization to provide context in Big Data analytics. My research vision is to provide collaborative research base between researchers and the industry, provide necessary impetus and guidance to upcoming researchers in the areas of emerging technologies and processes and attract funds from both industry and the government for relevant research projects.

My research work has been well accepted globally and has been presented at numerous national and international conferences. These conferences include SDPS2015 (Dallas) and SDPS2016 (Orlando), ACOSM (Australian Conference on Software Measurement, 2009, Sydney), Internet Technologies and Applications (ITA, 2009, Wrexham, UK), AIMB2006 (Association of Information Management and Business, Sydney, 2006), MBusiness International, Sydney (2005), ObjectWorld'94 & '95, ACOSM'93,'95, '03, OASIS open standards 2003, (again in Sydney); Melbourne (TOOLS'94 & '97); Perth (We-B and InfoSecurity, 2003), Johannesburg, South Africa (Object'95); Goldcoast (OO-ER'95); USA-OOPSLA ('95 Austin; '96 San Jose); Auckland, New Zealand and Singapore (IT Project Management'96, '97); India (Quality Assurance courses; Bangalore, Pune, Mumbai, Vadodara, Ahmedabad; 1998-2001), Nanjing, China (Sep, 1999), Integrated Design Process Technology Conferences (Dallas, 2000, Austin 2003), TOOLS 2000, 2001 (Santa Barbara and Sydney), OMG's workshop in Philadelphia (2003), ADCOM2004 (Ahmedabad, India), IRMA2004 (New Orleans), IRMA2005 (San Diego) and AIMS2005, 2006 (Association of Indian Management Scholars).

## **End of Statement of Research**

### **CB Notes: Removed materials**

Please advise as to where these belong

Author, Book Reviewer for IGI global; past Editor-in-Chief: International Journal of Green Computing, IGI Global.

Designer, Developer and Presenter of three subjects within the *M.Sc. in Software Technologies* program (Software Modeling with UML; Object Oriented Analysis and Design; and Requirements Engineering)