

Biodata

Name : Dr. Ajaykumar Ramdas Kambekar

Date of Birth : 05th Nov. 1969

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Near Dahanukar Wadi, Mahavir Nagar,
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Educational Qualifications : B.E. (Civil), M. Tech. (Offshore), Ph.D. (Civil-Ocean Engineering)

- 2010 Doctor of Philosophy with specialization in Ocean Engineering from Indian Institute of Technology Bombay India.
- 2002 Master of Technology with specialization in Offshore Engineering from Indian Institute of Technology Bombay India.
- 1991 Batchlor of Civil Engg. From College of Engineering and Technology Akola, Amaravati University, Maharashtra, India.
- 1988 Diploma in Civil Engg. From Dr. P.D. Polytechnic, Amravati, Maharashtra, India

Professional Experience

- Presently working as Lecturer/Assistant Professor in the Department of Civil Engineering, Sardar Patel College of Engineering (An Autonomous Institution affiliated to University of Mumbai) at Andheri (west), Mumbai, India (Since August 2003).
- Worked as Lecturer/Assistant professor in the Department of Construction Engineering, Konkan Education Society's N.N. Patil Engineering College Pen-Raigad affiliated to University of Mumbai, India (Since July 1996 to August 2003).
- Worked as Lecturer in the Department of Construction Engineering, Institute of Polytechnic, Akola, Maharashtra, India (Since July 1991 to July 1996).

Honorary work

- Advisory board member "International Journal of Science, Engineering and Management" (<http://www.bangalorepublications.com>)
- Editorial board member "International Journal of Futuristic Technologies in Civil Engineering" (<http://www.bangalorepublications.com>)

Research Publications

International Journals (03)

- (1) **A.R. Kambekar** and M.C. Deo (2010), Wave prediction using genetic programming and model trees, **International Journal of Coastal Research**, Coastal Research and Education Foundation, USA, DOI: 10.2112/JCOASTRES-D-1 -10-00052.1.
- (2) **A R Kambekar** and M C Deo (2010): "Wave simulation and forecasting using wind time history and data driven methods", **International Journal of ships and Offshore Structures**, Taylor and Francis, Volume 5, Issue 3, September 2010 , pages 253 – 266.
- (3) **Kambekar A R** and M C Deo (2003): "Estimation of pile group scour using neural networks", **Applied Ocean Research**, Elsevier, Oxford, UK, 25(4), 225-234.

International Conferences/workshop/symposium (05)

- (4) **A R Kambekar** and M C Deo (2010): Real time prediction of ocean waves using wind time series. 5-7 July 2010, Qubec, Canada. **Water2010**. (http://www.water2010.org/program_search.php)
- (5) **Kambekar A R**, M C Deo, Mansi Daga and Suhasini Sakhare (2009): Data driven methods to analyze wave buoy observations, **ASCE International Workshop on Computing in Civil Engineering, Austin, Texas**, June 24-27, 2009, 398-409.
- (6) M C Deo, **A R Kambekar**, G Latha and V Rajendran (2009): Data driven methods to analyze and model ocean data, **International conference on ocean engineering, ICOE2009, IIT Madras**, Feb. 1-5, 2009. 455-464.
- (7) **Kambekar A R**, Deo M C, G Latha and V Rajendran (2009): Wave hindcasting using intelligent computing methods, **Symposium on wind wave modeling, I I T Madras**, Feb. 12, 2009, 79-88.
- (8) Shailesh Namekar, **A R Kambekar** and M C Deo (2005): "Neural networks to predict scour of piles in sea", **Proceedings, Second Indian International conference on Artificial Intelligence, Pune**, Dec. 22-24, 2005.

National Conferences (06)

- (9) **A R Kambekar**, M C Deo, G. Latha and V Rajendran (2009): Genetic Programming for wave simulation, **National Conference on Coastal Processes, Resources and Management, Centre for Earth Sciences, Thiruvananthapuram**, Feb. 5-7, 2010, 154-159.
- (10) **A R Kambekar**, M C Deo, G Latha and V Rajendran (2009): Simulation of waves using the time series modeling, **Hydro-2009**, Dec. 17-18, 2009, CWPRS, Pune, 286-291.
- (11) Shailesh Namekar, **A R Kambekar** and M C Deo (2004): "Prediction of pile scour using ANN", **INCHOE conference, Goa**, Dec., 7-9, 2004, 716-723.
- (12) **Kambekar A R** and M C Deo (2002): "Neural networks to estimate oceanic pile group scour", **Hydro-2002, I I T Bombay**, 445-449.

(13) **A. R. Kambekar** (2007) “Soft Computing in Civil Engineering” National Conference:
Immerging Trend in Civil Engineering, **Government College of Engineering Amravati.**

(14) Khilnani A., Shaikh S., Desai P. and **Kambekar A.R.** “Role of Urban Transport Planning in Air
Pollution Mitigation” **National Conference on Sustainable Development of Water Resources
and Environment Management, SBCET, Jaipur, Feb. 25-26, 2011.**

Referee for research papers for the International Journals:

- Advances in Engineering Software, Elsevier Science.
- Pipeline Systems-Engineering and Practice, ASCE.
- Science of the Total Environment, Elsevier.
- Modelling and Simulation, Actapress
- Computers and Applications, Actapress
- Journal of Hydrology, Elsevier Science.
- Clean- Soil Air Water, Wiley VCH.
- Water Resources Management, Springer.
- Water Science and Technology, IWA Publishing.

Membership of professional Organizations

- Life Member of Indian Society for Technical Education (LMISTE)
- Associate Member of Institution of Engineers India (AMIE India)
- Life Member of Indian Water Works Association (LMIWWA)
- Life member of Indian society for Hydraulics (LMISH)
- Life member of Indian Geotechnical Society (LMIGS) Mumbai Chapter

Conferences attended :

- National level conference on Water resources, Hydraulics, Ocean Engg.
Hydro2002, held at IIT Bombay India
- 2nd Indian International Conference on Artificial Intelligence (IICAI-2005), held at
National Insurance Academy (NIA) Pune India.
- National Conference on “Emerging Technology & Developments in Civil
Engineering” at Govt. College of Engineering, Amravati 2007 India
- National Conference on Hydraulics, Water Resources & Ocean Engineering-
HYDRO 2006, held at Bharti Vidyapeeth, COE Pune, India

- National Conference on Hydraulics, Water Resources & Ocean Engineering-
HYDRO 2007, held at SVNIT Surat, Gujrat, India
- Indian National Conference on Harbor & Ocean Engineering (INCHOE 2007), held
at Karnataka NIT Surathkal, Karnataka India
- National Conference on Hydraulics, Water Resources & Ocean Engineering-
HYDRO 2008, held at MNIT Jaipur India
- National Conference on Hydraulics, Water Resources & Ocean Engineering-
HYDRO 2009, held at CWPRS Pune India
- National Conference on Coastal Processes, Resources and Management, Centre
for Earth Sciences studies (CESS), Thiruvananthapuram. Feb 2010 India
- ASCE International Workshop on Computing in Civil Engineering, U.T. Austin,
Texas, June 2009 USA

Short term training program organized: Worked as a Joint Coordinator for two weeks Short Term Training Program, jointly organized by Sardar Patel College of Engineering Andheri, National Institute of Technical Teachers Training and Research Bhopal, and Directorate of Technical Education Maharashtra at Sardar Patel College of Engineering, Andheri (w), Mumbai, Maharashtra, India, December 2004.

Short Term Courses Attended under Quality Improvement Program/ISTE

- On ‘Coastal Structures’ between Nov. 18-22, 2002 at IIT Chennai, India
- On ‘Finite Element & Boundary Element Methods with Applications in Civil
Engineering during Dec. 01 to 05, 2003 at IIT Bombay India.
- On ‘Integrated Water Resources Management Using Numerical Methods, Remote
Sensing and GIS’ during Nov. 22 to 26, 2004 at IIT Bombay India.
- On ‘Soft Computing in Civil Engineering’ during Jan. 02 to 06, 2006 at IIT
Bombay India
- On ‘Enabling Technologies & Technology Driven Practices for Accentuating
Value Chain management’ during May 09 to June 03, 2006 at SPCE Mumbai,
India
- On ‘Advanced techniques in Water resources management’ during Nov. 13 to 17,
2006 at IIT Bombay, India.
- On ‘Recent trends in water resources systems planning and management’ during
Nov. 03 to 07, 2008 at IIT Bombay India.

----- On 'Advances in Geotechnical Engineering' during April 12 to 16, 2010 at IIT Bombay India.

Research work:

(i) Ph.D. (Ocean Engg.)

“Wind Wave Simulation and Forecasting using Artificial Intelligence Techniques”. (Genetic Programming, Model Trees, Numerical methods)

Study Area: Arabian Sea, Indian Ocean, Bay of Bengal, shallow and deep water locations,

(ii) M. Tech. (Offshore)

“Estimation of Pile Group Scour Using Neural Networks”

Study Area: Research Piers at Pacific coast of Japan, piers are constructed in 1969. Observation between 1984 to 1989 is used for Scour depth estimation around research piers.

Administrative work:

- Examiner Ph.D. Entrance Test Mumbai University for Water Resources Engineering.
- Paper evaluator for Maharashtra Public Service Commission (MPSC) for Engineering Services examination.
- Worked as a member of TEQIP and NBA report preparation team SPCE.
- Worked as a Coordinator Civil Engineering Students Association for two years and organized lectures of various Eminent Experts in the field of Civil Engineering from India for students and faculties (Two years).
- Worked as a Coordinator Two Days National level Technical Symposium for Students in Civil Engineering across India (Two years).
- Organized Technical Visits to various Sites like, Bandra Worli Sea Link Project, Bhatsa Dam, Koyna Dam, Mazgaon Port, Tata Power Generation Station, Lift Irrigation Projects in Western Maharashtra, Cement Plant, various construction sites like Dams, Tunnels, Multistoried Buildings and National Highways in Maharashtra, India for undergraduate Students in Civil Engineering (Four years)
- Worked as a Joint Coordinator for Admission process at Application receipt Centre at Sardar Patel College of Engineering, Andheri (w), Mumbai, India for MBA/MMS/MCA/Engineering/Pharmacy for Directorate of Tech. Education Maharashtra (Two years)

----- Worked as a Coordinator for Admission process at Application receipt Centre at Sardar Patel College of Engineering, Andheri (w), Mumbai, India for MBA/MMS/MCA/Engineering/Pharmacy for Directorate of Tech. Education Maharashtra (One years)

Projects supervision at U.G. Level : Supervised UG projects on “RCC Design for Multistoried Buildings”, “Design of Tunneling works”, “Storm water drainage system design” “Fly Ash Bricks”, “Project management in Construction”, “Study of port & harbours” “Seepage in Dams”. & various Civil Engineering topics.

Special achievement : Published paper titled “Estimation of Pile Group Scour Using Neural Networks” published in Elsevier Journal (U.K.) Journal of Applied Ocean Research. 25 (2003) 225-234 is selected in Top ‘25’ Hot papers in 2003 in the Journal. The same paper has citations in the “Scopus” and Web of Science”

Teaching and Guidance:

Undergraduate courses: Fluid Mechanics,

Applied Hydraulics,

Hydraulic Machinery,

Irrigation Engineering (Water Resources Engineering)

Laboratories

Fluid Mechanics

Hydraulics and Hydraulic Machinery

Other: Worked as an external examiner for M. Tech. Dissertations at IIT Bombay, India.

Date: May-2011

Place: S.P.C.E. Mumbai