

Dr. Ramin Ramezani

CONTACT INFORMATION	3256N Boelter Hall Department of Computer Science University of California Los Angeles	<i>Tel:</i> 424-299-7051 <i>Email:</i> raminr@ucla.edu <i>WWW:</i> www.cs.ucla.edu/~ramin/
APPOINTMENTS	Managing Technical Director Clinical and Translational Science Institute David Geffen School of Medicine, University of California, Los Angeles Adjunct Assistant Professor Department of Computer Science University of California, Los Angeles Research Scientist Center for Smart Health University of California, Los Angeles <ul style="list-style-type: none">• Research Areas: AI, Signal Processing, Big Data Analytics for Healthcare, Remote Health Monitoring Chief Technologist Big Data and Analytics Unit, Department of Surgery and Cancer Institute of Global Health Innovations, Imperial College London <ul style="list-style-type: none">• Advisor: Professor Ara Darzi• Domains: Big Data, Health Policy, Medical Robotics Research Assistant Department of Computing Imperial College London <ul style="list-style-type: none">• Advisor: Professor Simon Colton• Research Areas: Computational Creativity, Combined Reasoning Research Assistant Department of Communication Systems Lancaster University <ul style="list-style-type: none">• Supervisor: Professor Bahram Honary• Research Areas: Error Control Coding, TETRA cellular systems	November 2015 to present June 2015 to present November 2014 to present June 2013 to November 2014 January 2013 to June 2013 October 2007 to September 2008
HONORARY APPOINTMENTS	Researcher <ul style="list-style-type: none">• Department of Surgery and Cancer, Imperial College London	January 2015 to present
EDUCATION	Imperial College London , London, UK Ph.D., Artificial Intelligence, July 2014 <ul style="list-style-type: none">• Thesis Title: <i>An Artificial Intelligence Framework for Investigative Reasoning</i>• Advisor: Professor Simon Colton• Area of Study: Machine Learning, Constraint Solving, Automated Theorem Proving, Combined Reasoning, Logic Lancaster University , Lancaster, UK M.Sc., Digital Signal Processing, September 2007 <ul style="list-style-type: none">• Thesis Topic: <i>Implementation of Background Modeling and Evolving Fuzzy Rule Based Classifier for Real Time Novelty Detection and Object Tracking</i>	

- Supervisor: Professor Plamen Angelov
- Area of Study: Intelligent Systems, Evolving Intelligence, Neuro-Fuzzy Systems

Bangalore University, Bangalore, India

B.Sc., Computer Science, September 2004

- Graduated with honors
- Electronics and Mathematics specialization

HONORS AND AWARDS

Imperial College London

- Engineering and Physical Sciences Research Council PhD Studentship
- Department of Computing PhD scholarship: to work on “A Cognitive Model of Axiom Formulation and Reformulation with Application to AI and software engineering”

Lancaster University

- Overseas Research Students Awards Scheme (ORSAS) Ph.D. Scholarship: to work on “LDPC codes”. (Total 8 scholarships for the entire university)
- Nokia Award for the best M.Sc project, September 2007
- Graduated with Distinction (Top Three), Dept. of Communication Systems, September 2007

HARDWARE AND SOFTWARE SKILLS

Machine Learning and Automated Theorem Proving Systems:

- Weka, Progol, Aleph, HR, OTTER, Mace, *Pe-pl* Stochastic Logic Programming for Probabilistic Inferences

Computer Programming:

- C, C++, Java, VHDL, Prolog, Perl, UNIX shell scripting, Matlab

INDUSTRIAL EXPERIENCE

Service Manager, Samsung Electronics

February 2005 to August 2006

- Member of managing team, supervising 200+ authorized service centers throughout the country
- Consultant to the local Samsung TV/Monitor factory (planning and QC department)

Technical Trainer, Sony Electronics & LG Electronics

May 2004 to January 2005

- Training technicians to repair Hi-Fi systems, digital cameras and camcorders

TEACHING EXPERIENCE

Mathematical Methods

- Fall 2011, Undergraduate level course in mathematics, Imperial College (class of 10 students)

Programming Logic-Prolog

- Imperial College (class of 40 students)

Error Correcting and Detecting Codes

- Fall 2007, postgrad-level course, Lancaster University (class of 30 students)

Security and Cryptography

- 2008, postgrad-level course, Lancaster University (class of 20 students)

- GRANTS Co-Investigator “Quantified-self for obesity: Physical activity behaviour sensing to improve health outcomes from surgery for severe obesity”, EPSRC, £350,000 granted, 2014–2015
- Co-Investigator “Sensing in At Risk Populations (SARP): Monitoring performance status, activities of daily living, and independence to promote safe outcomes for elderly patients in rehab, the home and long-term care.” NIH: DHHS-Agency for Health Care Research and Quality, R01HS024394-01, \$1.5m
- CITATIONS [Google Scholar Citations](#)
- BOOK CHAPTERS [1] Alison Pease, Alan Smaill, Simon Colton, Andrew Ireland, M Llano, Ramin Ramezani, Gudmund Grov, and Markus Guhe. Applying lakatos-style reasoning to AI problems. *Thinking Machines and the philosophy of computer science: Concepts and principles*, pages 149–174, 2010.
- PUBLICATIONS [2] Plamen Angelov, Ramin Ramezani, and Xiaowei Zhou. Autonomous novelty detection and object tracking in video streams using evolving clustering and takagi-sugeno type neuro-fuzzy system. In *Neural Networks, 2008. IJCNN 2008.(IEEE World Congress on Computational Intelligence). IEEE International Joint Conference on*, pages 1456–1463. IEEE, 2008.
- [3] Ramin Ramezani, Plamen Angelov, and Xiaowei Zhou. A fast approach to novelty detection in video streams using recursive density estimation. In *Intelligent Systems, 2008. IS'08. 4th International IEEE Conference*, volume 2, pages 14–2. IEEE, 2008.
- [4] Pouria Sadeghi-Tehran, Plamen Angelov, and Ramin Ramezani. A fast recursive approach to autonomous detection, identification and tracking of multiple objects in video streams under uncertainties. In *Information Processing and Management of Uncertainty in Knowledge-Based Systems. Applications*, pages 30–43. Springer Berlin Heidelberg, 2010.
- [5] Plamen Angelov, Pouria Sadeghi-Tehran, and Ramin Ramezani. An approach to automatic real-time novelty detection, object identification, and tracking in video streams based on recursive density estimation and evolving takagi-sugeno fuzzy systems. *International Journal of Intelligent Systems*, 26(3):189–205, 2011.
- [6] Plamen Angelov, Pouria Sadeghi-Tehran, and Ramin Ramezani. A real-time approach to autonomous novelty detection and object tracking in video stream. *International Journal of Intelligent Systems*, 26(3):189–205, 2011.
- [7] Ramin Ramezani and Simon Colton. Solving mutilated problems. *Automated Reasoning Workshop 2009 Bridging the Gap between Theory and Practice ARW 2009*, page 27, 2009.
- [8] Ramin Ramezani and Simon Colton. Automatic generation of dynamic investigation problems. *Automated Reasoning Workshop 2010 Bridging the Gap between Theory and Practice ARW 2010*, page 34, 2010.
- [9] Alison Pease, Simon Colton, Ramin Ramezani, Alan Smaill, and Markus Guhe. Using analogical representations for mathematical concept formation. In *Model-Based Reasoning in Science and Technology*, pages 301–314. Springer Berlin Heidelberg, 2010.
- [10] Alison Pease, Simon Colton, Ramin Ramezani, John Charnley, and Kate Reed. A discussion on serendipity in creative systems. *Proceedings of the Fourth International Conference on Computational Creativity*, page 64, 2013.

- [11] Simon Colton, Ramin Ramezani, Maria Teresa Llano. The HR3 Discovery System: Design Decisions and Implementation Details. *Artificial Intelligence and Simulating Behaviour AISB*, 2014.
- [12] Ramin Ramezani. Implementation of Background Modelling and Evolving Fuzzy Rule-based Classifier for Real-Time Novelty Detection and Landmark Recognition, 2007.
- [13] Ramin Ramezani. An Artificial Intelligence Framework for Investigative Reasoning, *PhD Thesis, Imperial College London*, 2014.